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UNIVERSITY
OF ILLINOIS
annual list

July 1 through December 31, 1968

PUBLICATIONS OF THE FACULTY

and titles of doctoral dissertations

COVER:

ISLAND BEACH, by Edward Betts
Painting in acrylic polymer, 18" x 24"

Edward Betts, Professor of Art at the University of Illinois, holds a B.A. degree in History of Art from Yale University and an M.F.A. in Painting from the University of Illinois.

He has been represented in virtually every important national exhibition, including the Corcoran Biennials of Contemporary American Painting, American Painting Today at the Metropolitan Museum of Art, Whitney Museum Annual, Brooklyn Museum International Watercolor Exhibitions, Pennsylvania Academy Annuals, and the National Institute of Arts and Letters, as well as international exchange exhibitions in England, Brazil, Mexico, and Japan. He has held eighteen one-man shows in New York City, Chicago, Boston, Philadelphia, and Exeter, N.H.

Among the major awards he has received are the \$2000 First Altman Landscape Prize at the National Academy of Design in 1957, 1959, and again in 1966; Silver Medals of Honor at the American Watercolor Society exhibitions in 1953 and 1959; California Watercolor Society Purchase Award in 1957, and two medals at the Philadelphia Watercolor Club in 1954 and 1955.

Paintings by Mr. Betts are included in the permanent collections of the Fogg Museum of Art, National Academy of Design, Butler Institute of American Art, Virginia Museum of Fine Arts, Atlanta University, La Jolla Art Center, the Walter Chrysler Art Museum and others.

The subject matter of Mr. Betts' paintings is almost exclusively the coast of Maine, where he spends his summers.


UNIVERSITY OF ILLINOIS annual list

January 1 through December 31, 1968

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and titles of doctoral dissertations

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ACCOUNTANCY

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Books

Introduction to modern accounting. Ronald Press Co., N.Y., 744 pp.

Articles

The foundations of accounting measurement. *J. Acctg. Res.* 6, 2:270-82.

Expansion of the accounting information system. *Georgia CPA*, 9, 3:11-15.

With T. Iino

Consistency reexamined. *Acctg. Rev.*, 43: 453-58.

Bulletins and Technical Reports

Information and communication aspects of accounting principles. New Zealand Soc. of Accountants, Wellington, N.Z., 40 pp.

Reviews

Horizons for a profession, by Robert H. Roy and James H. MacNeil. *Acctg. Rev.*, 43, 1:208-10.

DESKINS, JAMES W., Assistant Professor

Books

With T. H. Williams, J. S. Fuhrmann
Information processing simulation model. Richard D. Irwin, Inc., Homewood, Ill., 40 pp.

Instructor's and operator's manual. *Ibid.*, 77 pp.

DICKEY, ROBERT I., Professor

Articles

Some developments in industrial cost accounting in the U.S. since 1945. In *Beitrag zur lehre von der unternehmung*, ed. by Angehrn and Kunzi, Verlag des Schweizerischen Kaufmannischen Vereins, Zurich, Switzerland, pp. 119-36.

Allowing American-trained foreign students to take the CPA examination. *CPA*, 48, 9:10.

FESS, PHILIP E., Professor

Articles

Teaching and/or research: a time for evaluation. *J. Accy.*, 125, 3:84-87.

The funds statement. *N.Y. CPA*, 38, 5: 370-71.

With others

Report to executive committee-committee on CPA examinations. *Acctg. Rev.*, 43:16-21.

MAUTZ, ROBERT K., Professor

Books

Financial reporting by diversified companies. Financial Exec. Res. Fnd., N.Y., 383 pp.

Articles

Financial reporting by conglomerate companies. *Fin. Exec.*, 36, 2:52-65.

Audit response to enterprise developments in America. In *Beitrag zur lehre von der unternehmung* (Festschrift für Karl Käfer), pp. 169-84.

With K. F. Skousen

Common cost allocation in diversified companies. *Fin. Exec.*, 36, 6:15-25.

MOYER, C. A., Professor

Bulletins and Technical Reports

With others

Basic concepts and accounting principles underlying financial statements of business enterprises, proposed opinion of the Ac-

counting Principles Board. Amer. Inst. CPAs, N.Y., 121 pp.

NEUMANN, FREDERICK L., Assistant Professor

Articles

The independent auditor's concern with unattested data in annual reports. *N.Y. CPA*, 38, 7:485-90.

Reviews

The effectiveness of accounting communication, by Abraham J. Brilloff. *J. Bus. Comm.*, 5, 3:45-48.

NOLAN, RICHARD L., Assistant Professor

Articles

A heuristic program. Distributed by COSMIC, Software Library, Univ. Ga., 1967. Computer simulation for the manager. *Systems and Procedures J.*, 19, 4:33-35.

With R. Wing

A heuristic computer program which learns to play tic-tac-toe. *Univ. Wash. Bus. Rev.*, 27, 2:63-71.

SCHOENFELD, HANNS-MARTIN, Professor

Books

Kostenrechnung (rev. 4th ed.). C. E. Poeschel Verlag, Stuttgart, 166 pp.

With W. Sommer

Management dictionary. Fachoerterbuch fuer Betriebswirtschaft, Wirtschafts- und Steuerrecht und Lochkartenwesen, II. Band, Deutsch-Englisch (rev. 3rd ed.) Verlag Walter DeGruyter & Co., Berlin, 290 pp.

Articles

Gedanken zur notwendigkeit der innerbetrieblichen weiterbildung von fuehrungskraeften. *Werk und Wir Hoesch AG*, 7, 7: 116-19.

SKADDEN, DONALD H., Professor

Articles

Education for the profession of accountancy. *Accts. J.*, 46, 9:354-58.

American professional survey. *Ibid.*, 47, 5: 192-95.

WEBER, CHARLES, Associate Professor

Articles

Langfristige planung in der unternehmung. In *Beitraege zur lehre von der unternehmung*. Festschrift fuer Karl Käfer, ed. by Angern and Keunzi, Verlag des Schweizerischen Kaufmaennischen Vereins, Zurich, Switzerland, pp. 309-29.

Projektanalyse mit CPM. *Industrielle Organisation*, 37, 4:236-48.

Besonderheiten der amerikanischen kostenrechnung. *Zeitschrift fuer Betriebswirtschaft*, 38, 11:837-58.

ZIMMERMAN, VERNON K., Professor of Accountancy; Associate Director, Office of International Programs and Studies; Associate Dean, College of Commerce and Business Administration

Articles

Technical assistance on the campus: experience at the University of Illinois. In *Business schools and the challenge of international business*, ed. by Stephen A. Zeff. Grad. School of Bus. Admin., Tulane Univ., New Orleans, pp. 245-52.

With G. Mueller

Internalization of the accounting curriculum. In *Internationalizing the traditional busi-*

ness curriculum, ed. by Schuyler F. Otteson, Intl. Bus. Res. Series, No. 1, Grad. School of Business, Indiana Univ., Bloomington, pp. 43-58; 151-60.

DOCTORAL DISSERTATIONS

Beams, Floyd A. (N. M. Bedford, Adviser), A critical examination of the matching concept in accountancy.

Carmichael, Douglas R. (V. K. Zimmerman, Adviser), A conceptual model of employee fraud: a critique of accounting literature and an interdisciplinary view.

Chao, Lucy L. (N. M. Bedford, Adviser), An application of information theory to an analysis of the accounting process.

Fu, Philip Y. (V. K. Zimmerman, Adviser), A study of governmental accounting in China: with special reference to the Sung Dynasty (960-1279).

Fujita, Yukio (V. K. Zimmerman, Adviser), An analysis of the development and nature of accounting principles in Japan.

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Imdieke, Leroy F. (N. M. Bedford, Adviser), An inquiry into the nature of a liability in financial accounting.

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Ninsuvannakul, Pianchai (V. K. Zimmerman, Adviser), A critical study of the development of governmental accounting in Thailand.

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Smith, Ephraim P. (E. J. DeMaris, Adviser), Executive compensation — tax effects.

Weygandt, Jerry J. (C. A. Moyer, Adviser), A critical examination of the nature of privileged communication in accountant-client relationships.

ADMISSIONS AND RECORDS

DREMUK, RICHARD, Associate Director of Graduate and Foreign Admissions

Books Edited

Report of the training workshop on the evaluation of Asian educational credentials (Vietnam, Laos, Cambodia, Thailand, Indonesia, Korea). Institute for Tech. Interchange (East-West Center) and Natl. Assoc. Foreign Student Affairs, Honolulu, Hawaii, 150 pp.

Articles

With J. Paraskevopoulos

Grading patterns for foreign students: a faculty survey. *Intl. Educ. and Cult. Exchange*, 4, 3:55-60.

ADVERTISING

BARBAN, ARNOLD M., Associate Professor

Books Edited

With C. H. Sandage

Readings in advertising and promotion strategy. Richard D. Irwin, Inc., Homewood, Ill., 301 pp.

Articles

With C. H. Sandage

Illinois farmers' use of media during Arab-Israeli conflict. *Journ. Qt.*, 45, 2:336-37.

Reviews

Strategy in advertising, by Leo Bogart. *Ibid.*, 3:557-58.

DUNN, S. WATSON, Professor

Articles

With E. S. Lorimer

Reference groups, congruity theory and cross-cultural persuasion. *J. Communications*, December, pp. 354-68.

Use of the mass media in France and Egypt. *Public Opinion Qt.*, 52, Winter, pp. 682-87.

With S. Schleifer

Relative effectiveness of advertisements of foreign and domestic origin. *J. Marketing Res.*, 5, August, pp. 296-99.

KITSON, JOHN WILLIAM, Assistant Professor

Books

With H. J. Skornia

Problems and controversies in television and radio. Pacific Books, Palo Alto, Calif., 578 pp.

AERONAUTICAL AND ASTRONAUTICAL ENGINEERING

BOND, CHARLES E., Associate Professor

Articles

With R. W. Potillo

Stability and slanting of the convective electric arc in a thermionic rail accelerator. *AIAA Journal*, 6, 8:1565-67.

HILTON, HARRY H., Professor

Bulletins and Technical Reports

The mistress user manual (master Illinois self teaching aerospace engineering system synthesis). Univ. Ill. Tech. Report AAE 68-5. 150 pp.

LIN, Y. K., Professor

Bulletins and Technical Reports

With T. C. Chen, C. Y. Yang

Response of nonlinear structures to random excitation. AFML-TR-66-416, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, 28 pp., 1967.

With T. J. McDaniel

Response of multi-spanned beam and panel systems under noise excitation, Part II. AFML-TR-64-348, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, 32 pp., 1967.

ROSCOE, STANLEY N., Professor

Articles

The case for the moving-map display. *Information Display*, 4, 5:44-46.
Airborne displays for flight and navigation. *Human Factors*, 11, 4:321-32.

SENTMAN, LEE H., Assistant Professor

Articles

With K. Karamcheti

Kinetic equations for a gas under the action of nonconservative forces. *J. Chem. Phys.*, 48, 5:2181-84.

Rarefied flow past a sphere. *AIAA Journal*, 1, 1:161-63.

STREHLOW, ROGER A., Professor

Books

Fundamentals of combustion. Intl. Text-book Co., Scranton, Pa., 465 pp.

Articles

Shock tube chemistry. In *Progress in high temperature physics and chemistry*, ed. by Carl A. Rouse, Pergamon Press, N.Y., 2: 127-76.

Gas phase detonations: recent developments. *Comb. and Flame*, 12, 2:81-101.

With K. R. Maxwell

Two-dimensional diffuse shock waves in carbon dioxide. *AIAA Journal*, 6, 12:2431.

YEN, SHEE-MANG, Professor

Articles

Monte Carlo method computes Boltzmann collision integral. *Physics Today*, 21, 4: 117-18.

Bulletins and Technical Reports

With B. L. Hicks

Calculations of the Boltzmann collision integrals to rarefied gas flow problems. *APS Bulletin, Series 11, 13*, 11:1599.

Initial behavior of the pseudo-shock. *Ibid.*, 5:807.

ZAK, ADAM R., Professor

Articles

Structural failure criterion for solid propellants under multiaxial stresses. *J. Spacecraft and Rockets*, 5, 3:265-69.

Structural analysis of realistic solid-propellant materials. *Ibid.*, pp. 270-75.

DOCTORAL DISSERTATIONS

Donaldson, Bruce K. (Y. K. Lin, Adviser), A method for a forced vibration analysis of a flat skin-stringer-frame structure.

Fraser, Allister F. (H. H. Hilton, Adviser), On isentropic fiber-wound surfaces of revolution.

Gilbert, Ralph B. (R. A. Strehlow, Adviser), Flat plate-free jet impingement studies.

Liebeck, Robert H. (H. H. Hilton, Adviser), Optimization of airfoils for maximum lift.

McDaniel, Thomas J. (Y. K. Lin, Adviser), Analysis of simple and compound repeated structures.

Myers, James L., Jr. (H. H. Hilton, Adviser), Optimization of a gyroscopic satellite general-relativity experiment.

Shieh, Rong C. (E. F. Masur, Adviser), General formulation of stability criteria for non-conservative elastic or inelastic systems.

Sindermann, Bernard M. (S. M. Yen, Adviser), A study of hypersonic rarefied gas flow about a spherical body.

AGRICULTURAL ECONOMICS

BAKER, CHESTER B., Professor

Articles

Research orientations and their implications for agricultural economists. *Australian J. Agr. Econ.*, 11, 2:154-70.

Grain production: near-term capacities in feed grains. In *Abundance and uncertainty—farm policy decisions*. *CAED Report 31*, Iowa State Univ., Ames, pp. 25-42.

Credit in the production organization of the firm. *Amer. J. Agr. Econ.*, 50, 3:507-20.

Financial organization and production choices. *Ibid.*, 5:1566-75.

With G. A. Harrison, J. T. Scott, Jr.

A decision model for estate planning. *Trusts and Estates*, 107, 6:523-26.

The use of linear programming in estate planning. *Ill. Agr. Econ.*, 8, 2:17-21.

Reviews

Individual freedom and economic organization of U.S. agriculture, by Harold Breimyer. *Australian J. Agr. Econ.*, 11, 2:215-17.

BARTLETT, ROLAND W., Professor Emeritus

Articles

How can fluid milk compete successfully with imitation milk? *Ill. Agr. Econ.*, 8, 1:1-8.

Bulletins and Technical Reports

The threat of low-cost filled milk to the fluid milk industry. In *The fluid milk industry and the competition of filled milk*. *Univ. Ill. Agr. Econ. Bull.*, 16:5-37.

DOVRING, FOLKE, Professor

Articles

El papel de la agricultura dentro de las poblaciones en crecimiento. Mexico, un caso de desarrollo economico reciente. *El Trimestre Economico (Mexico City)*, 35(1), 137:25-50.

Aid by dumping? *Intl. Dev. Rev.*, Sept., pp. 2-5.

Reviews

Social origins of dictatorship and democracy, by Barrington Moore. *Labor History*, 9, 1:141-44.

Agriculture and economic growth in England 1650-1815, ed. by E. L. Jones. *Social Studies*, 59, 6:294.

Asian rural society: China, India, Japan, by Tadashi Fukutake; Studies in Indian agriculture, by Gilbert Etienne. *J. Econ. Hist.*, 28, 3:467-69.

DUE, JEAN M., Visiting Professor

Bulletins and Technical Reports

Changes in imports of capital goods—Sierra Leone, 1950-1965. *Univ. Ill. Agr. Exp. Sta. Bull.* 730, 44 pp.

FETTIG, LYLE P., Associate Professor

Books

With G. K. Brinegar

Some measures of the quality of agricultural credit. National Bureau of Economic Research, Inc., Columbia Univ. Press, N.Y., 51 pp.

FLEGEL, FREDERICK C., Professor

Books

With P. Roy, L. K. Sen, J. E. Kivlin

Agricultural innovations in Indian villages. Natl. Inst. Commun. Devel., Hyderabad, India, 119 pp.

Agricultural innovation among Indian farmers. *Ibid.*, 112 pp.

Communication in India: experiments in introducing change. *Ibid.*, 56 pp.

Articles

With S. S. Thorat

Some aspects of adoption of health and family planning practices in India. *Behavioural Sci. and Commun. Devel.*, 2:1-13.

With J. E. Kivlin

Orientations to agriculture: a factor analysis of farmers' perceptions of new practices. *Rural Soc.*, 33:127-40.

With J. E. Kivlin, G. S. Sekhon

A cross-national comparison of farmers' perceptions of innovations as related to adoption behavior. *Ibid.*, pp. 437-49.

Bulletins and Technical Reports

With P. Roy, L. K. Sen, J. E. Kivlin

Two blades of grass: a summary of two studies on agricultural innovation in India. *Natl. Inst. Commun. Devel.*, Hyderabad, India, 40 pp.

GRUEBELE, JAMES W., Assistant Professor

Articles

Unnecessary surpluses of fluid milk and competition from filled and synthetic milks. In *Consumer interest in new dairy products*. *Univ. Ill. Agr. Econ. Bull.*, 17:39-51.

Milk consumption in Illinois schools, 1954-1966. *Univ. Ill. Agr. Exp. Sta. Bull.* 732, 27 pp.

GUITHER, HAROLD D., Associate Professor

Articles

With W. N. Thompson

Agricultural economists in overseas development assistance and the impact upon U.S. universities. *Amer. J. Agr. Econ.*, 50, 5: 1313-25.

Bulletins and Technical Reports

With E. H. Regnier, Kathleen M. Propp, W. N. Thompson

AID-university rural development contracts and U.S. universities. Dept. State Agency Intl. Devel., Wash., D.C., 192 pp.

AID-university rural development contracts, 1951-1966. *Univ. Ill. CIC-AID Rural Devel. Res. Project*, Urbana, 95 pp.

HALCROW, HAROLD G., Professor and Head of Department

Articles

Agricultural economics. *Encyc. Britannica*, 1:335-36.

Agricultural credit. *Intl. Encyc. Soc. Sci.*, 3:466-71.

HENDERSON, JOSEPH J., Assistant Professor

Bulletins and Technical Reports

Legal aspects of crop spraying. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 990, 8 pp.

With N. G. P. Krausz

Self-employed retirement plans. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 991, 11 pp.

HERBST, JOHN H., Associate Professor

Books

Farm management—principles, budgets, plans (rev. ed.). Stipes Pub. Co., Champaign, Ill., 294 pp.

HILL, LOWELL D., Associate Professor

Articles

The open competitive market approach—discussion. In *Agricultural organization in*

the modern industrial economy, NCR-20-68, Dept. Agr. Econ., Ohio State Univ., pp. 42-47.

Buying corn on a No. 2 basis. *Ill. Agr. Econ.*, 8, 2:1-8.

With J. T. Scott, Jr.

Trends in harvesting and marketing Illinois corn. *Ill. Bus. Rev.*, 25, 5:6-8.

HOLCOMB, JOHN M., Professor

Bulletins and Technical Reports

With R. B. Schwart

Mechanics of farm budgeting. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 985, 19 pp.

JUDGE, GEORGE G. Professor

Articles

The search for quantitative economic knowledge. *Amer. J. Agr. Econ.*, 50, 5:1703-18.

With T. C. Lee, A. Zellner

Maximum likelihood and Bayesian estimation of transition probabilities. *J. Amer. Stat. Assn.*, 63, 4:1162-80.

KESLER, RICHARD P., Assistant Professor

Bulletins and Technical Reports

With A. G. Mueller, D. F. Wilken

1967, 43rd annual summary of Illinois farm business records. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 987, 23 pp.

KRAUSZ, NORMAN G. P., Professor

Books

With H. W. Hannah

Law and court decisions on agriculture. Stipes Pub. Co., Champaign, Ill., 465 pp.

Bulletins and Technical Reports

Intergovernmental relationships in the administration of water resources. *Water Resources Center Research Report* No. 18, Univ. Ill., Urbana, 336 pp.

With H. W. Hannah

Law for the Illinois farmer. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 986, 92 pp.

With J. J. Henderson

Self-employed retirement plans. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 991, 11 pp.

With C. L. Klein

The natural resources development bond act—one billion for pure water and air. *Water Pollution and Water Resources Commission*, State of Illinois, Springfield, 19 pp.

LINDSTROM, DAVID E., Professor Emeritus

Bulletins and Technical Reports

Factors affecting post-high school educational and job plans of rural youth in eight Illinois counties in the 1963-64 school year. *Univ. Ill. Agr. Exp. Sta. Bull.* 731, 44 pp.

MUELLER, ALLAN G., Associate Professor

Bulletins and Technical Reports

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1967, 43rd annual summary of Illinois farm business records. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 987, 23 pp.

MUTTI, RALPH J., Professor

Books

Marketing staple food crops in Sierra Leone. U.S. AID, Wash., D.C., 473 pp.

REGNIER, EARL H., Professor

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REISS, FRANKLIN J., Professor

Articles

Is \$900 per acre too much for farmland?
Ill. Agr. Econ., 8, 2:22-28.

Bulletins and Technical Reports

Farm lease practices in western Illinois.
Univ. Ill. Agr. Exp. Sta. Bull. 728, 44 pp.
Farm leases for Illinois (rev. ed.). *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 960, 65 pp.

SCHMIDT, STEPHEN C., Associate Professor

Articles

COMECON wheat trade and prospects for the 1970's. *Amer. Rev. East-West Trade*, 1, 10:15-34.

With R. J. Hemp

Prospects for United States wheat exports to the Soviet bloc. *Ill. Agr. Econ.*, 8, 1:26-39.

With E. D. Baldwin

East-west trade in feed grains. *Ibid.*, 2:36-46.

With L. A. Fischer

Der COMECON in der Weltweizenwirtschaft. *Agararwirtschaft*, 17, 8:248-55.

SCHWART, ROBERT B., Associate Professor

Bulletins and Technical Reports

With J. M. Holcomb

Mechanics of farm budgeting. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 985, 19 pp.

SCOTT, JOHN T., JR., Associate Professor

Articles

Factor analysis and regression. *Econometrica*, 34:552-62.

High lysine corn: will you grow it? *Crops and Soils*, 20, 4:5-6.

High lysine corn. *Ohio Rpt. Res. and Dev.*, 53, 2:26-27.

Economic impact of industrialization on rural areas. *Ill. Bus. Rev.*, 25, 8:6-8.

Economic impact of industrialization on traditional rural areas. *J. Amer. Soc. Farm Mgrs. Rural App.*, 32, 2:8-13.

With L. D. Hill

Trends in harvesting and marketing Illinois corn. *Ill. Bus. Rev.*, 25, 5:6-8.

With G. A. Harrison, C. B. Baker

The use of linear programming in estate planning. *Ill. Agr. Econ.*, 8, 2:17-21.

A decision model for estate planning. *Trusts and Estates*, 107, 6:523-26.

With P. C. Kuhonta

Resources required for viable farms in Laguna Province, Philippines. *Ill. Agr. Econ.*, 8, 2:29-35.

Bulletins and Technical Reports

With C. E. Cagley

The economics of machinery choice in corn production. *Univ. Ill. Agr. Exp. Sta. Bull.* 729, 26 pp.

SIMERL, LAWRENCE H., Professor

Bulletins and Technical Reports

Farmers and agriculture in our economy. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 988, 15 pp.

SPITZE, ROBERT G. F., Professor

Articles

Economic redirections in recent U.S. agricultural policy. *J. Agr. Econ.*, 19, 3:327-38.
Agricultural economics. *J. Natl. Assn. Coll. and Teachers of Agr.*, 11, 2-3:36-37.

THOMPSON, WILLIAM N., Professor

Books

With I. L. Baldwin, J. A. Rigney,
R. W. Roskelley

Building institutions to serve agriculture. Committee on Inst. Coop., Purdue Univ., Lafayette, Ind., 236 pp.

Articles

With H. D. Guither

Agricultural economists in overseas development assistance and the impact upon U.S. universities. *Amer. J. Agr. Econ.*, 50, 5:1313-25.

Bulletins and Technical Reports

With H. D. Guither, E. H. Regnier,
Kathleen M. Propp

AID-university rural development contracts and U.S. universities. Dept. State Agency Intnl. Devel., Wash., D.C., 192 pp.

AID-university rural development contracts, 1951-1966. Univ. Ill. CIC-AID Rural Devel. Res. Project, Urbana, 95 pp.

WAGNER, MELVIN M., Associate Professor

Articles

Regional specialization in Thai agriculture. *Proc. 6th national conference on agricultural sciences*, May 1968, Bangkok, Thailand, 10 pp.

With P. Charsombuti

The Thai population: estimates and projections, 1947-1976. *Proc. 3rd national population seminar*, April, 1968, Bangkok, Thailand, pp. 470-86.

WILKEN, DELMAR F., Associate Professor

Articles

Illinois revamps farm management tours. *Ext. Ser. Rev.*, 39, 1:4.5.

Bulletins and Technical Reports

With A. G. Mueller, R. P. Kesler

1967, 43rd annual summary of Illinois farm business records. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 987, 23 pp.

WILLIAMS, SHELDON W., Professor

Articles

With D. A. Vose

Optimum size of dairy plants as determined by survivor analysis. *J. Dairy Science*, 51:1511-14.

DOCTORAL DISSERTATIONS

El-Zabri, Ismail T. (R. W. Bartlett, Adviser), Economic integration: The Arab Common Market.

Kuhonta, Precioso C. (E. R. Swanson, Adviser), Programming farm plans for Laguna, Philippines.

Lemon, John R. (V. I. West, Adviser), Agricultural income differences among counties in Illinois in 1959.

Leunis, Joseph V. (G. G. Judge, Adviser), A spatial analysis of the United States soybean industry.

Marceau, Ian W. (C. B. Baker, Adviser), Linear programming for individual farms: a contribution toward a commercially applicable system.

Muir, Donald A. (F. Doving, Adviser), Some aspects of international commodity agreements and the international wheat trade.

Rodewald, Gordon E., Jr. (C. B. Baker, Adviser), Economic conditions necessary for the installation of fixed assets in mechanized cattle feeding systems.

Seetisarn, Manu. (E. R. Swanson, Adviser), A macroeconomic model of the Thai economy, 1953-1965.

Sharma, Janak S. (C. B. Baker, Adviser), Effects of price on marketable surplus of wheat in Maharashtra, India.

Sharma, Vidya V. (V. I. West, Adviser), An econometric analysis of the Indian oilseeds economy and international trade in fats and oils.

Smith, Allen G. (C. B. Baker, Adviser), Alternative strategies for financing growth of a grain farm in central Illinois.

Vandeputte, Joseph M. (C. B. Baker, Adviser), Financing low equity dairy farms: an application of multi-period linear programming methods.

AGRICULTURAL ENGINEERING

BEATY, HAROLD H., Professor

Bulletins and Technical Reports

Illinois farm electrification council, 15th annual report, 22 pp.

Home heating with electricity (rev. ed.). *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ. 834*, 16 pp.

With G. C. Shove, V. W. Davis

Drying shelled corn (rev. ed.). *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ. 916*, 20 pp.

BUTLER, B. J., Associate Professor

Articles

With W. R. Nave

Equipment for roadside mulching operations. *Agr. Engr. Series, Ill. Coop. Hwy. Res. Prog.*, 92, 15 pp.

With L. C. Kaufman

Increment of cut and rake angle interaction during granular incorporation by rotary tillage. *Trans. A.S.A.E.*, 10, 6:718-22.

CONVERSE, JAMES C., Graduate Research Assistant

Articles

With G. L. Pratt, R. L. Witz, R. G. Butler, J. L. Parson

Lagoons for farm wastes. *Farm Research*, North Dakota State University, 25, 4:8-10.

CURTIS, JAMES O., Associate Professor

Articles

With J. D. Bradley

Stresses in plywood gusset plates for trusses. *Trans. A.S.A.E.*, 10, 5:633-38.

Bulletins and Technical Reports

Remodeling corn cribs for small grain storage. *Agricultural Engineers Digest*, Midwest Plan Service, Ames, Ia., 6 pp.

With L. D. Nagreski

Allowable loads for anchor bolts in concrete. *Ill. Res.*, 10, 2:5.

DAY, DONALD L., Associate Professor

Articles

With J. C. Converse, D. D. Jones

Rotor aeration of swine wastes. *Ill. Res.*, 10, 2:16-17.

With W. C. Hammond, E. L. Hansen

Can lime and chlorine suppress odors in liquid manure? *Agr. Engr.*, 49, 6:340-43.

With D. D. Jones, B. A. Jones, Jr.

Aerobic digestion of cattle waste. *Ill. Res.*, 10, 3:8.

Aerobic digestion of cattle waste. *Trans. A.S.A.E.*, 11, 6:757-61.

DRABLOS, CARROLL J. W., Assistant Professor

Articles

With B. A. Jones, Jr.

Liaison—key to highway and agricultural drainage. *ASCE Environmental Engineering Conf., Preprint 681*, 19 pp.

HALL, GLENN E., Assistant Professor

Articles

Mechanical shelling damage. *Proc. of the Grain Damage Symposium*, Iowa State Univ., Ames, pp. 12.01-08.

With D. M. Byg

Corn losses and kernel damage in field shelling of corn. *Trans. A.S.A.E.*, 11, 2:164-66.

With C. W. Hall

Heated die wafer formation of alfalfa and bermudagrass. *Ibid.*, 4:578-81.

HANSEN, EDWIN L., Professor

Articles

With W. C. Hammond, D. L. Day

Can lime and chlorine suppress odors in liquid hog manure? *Agr. Engr.*, 49, 6:340-43.

Continuously insulated concrete panel construction. *Small Homes Council-Building Research Council Univ. Ill. Bull.* 65, p. 122.

HUNT, DONELL R., Professor

Articles

With G. A. Pusey

Field machine repair cost patterns. *Agr. Engr.*, 49, 3:139-41.

JONES, BENJAMIN A., JR., Professor

Articles

With J. L. Woerner, R. N. Fenzl

Laminar flow in finitely wide rectangular channels. *Proc. ASCE*, 94, HY3:691-704.

With C. J. W. Drablos

Liaison—key to highway and agricultural drainage. *ASCE Environmental Engr. Conf., Preprint 681*, 19 pp.

With D. D. Jones, D. L. Day

Aerobic digestion of cattle waste. *Ill. Res.*, 10, 3:8.

Aerobic digestion of cattle waste. *Trans. A.S.M.E.*, 11, 6:757-61.

With A. O. Weiss, R. N. Fenzl

Factors affecting scour-hole development upstream of a rectangular weir. *Trans. A.S.A.E.*, 11, 4:572-75.

LEMBKE, WALTER D., Associate Professor

Articles

Getting water away from irrigated areas. *Farm and Home Research*, South Dakota State Univ., 19, 1:5-6.

Drainage designed for your field. *Ibid.*, pp. 9-10.

Control of water table level. *Ibid.*

Programming irrigation drainage systems. *Ibid.*, pp. 14-15.

Seek better, cheaper drain filters. *Ibid.*, p. 16.

What's new in products for irrigation. *Ibid.*, p. 17.

MUEHLING, ARTHUR J., Associate Professor

Articles

Livestock waste management. In *Farm Builders Handbook*, ed. by R. J. Lytle, Structures Pub. Co., Farmington, Mich., pp. 125-43.

Bulletins and Technical Reports

With L. R. Fryman, K. E. Harshbarger

Feeding, managing, and housing dairy calves. *Univ. Ill. Coll. Agr. Exp. Sta. Circ. 992*, 12 pp.

NAVE, W. RALPH, Assistant Professor

Articles

With B. J. Butler

Equipment for roadside mulching operations. *Agr. Engr. Series, Ill. Coop. Hwy. Res. Prog. 92*, 15 pp.

OLVER, ELWOOD F., Professor

Articles

With H. B. Puckett, K. E. Harshbarger

Automatic livestock feeding. In *Yearbook of agriculture*, 1968, pp. 125-28.

PUCKETT, HOYLE B., Associate Professor

Articles

With K. E. Harshbarger, E. F. Olver

Automatic livestock feeding. In *Yearbook of agriculture*, 1968, pp. 125-28.

SHOVE, GENE C., Associate Professor

Articles

Application of dehydrofrigidation to shelled-corn conditioning. *Trans. A.S.A.E.*, 11, 3:312-17.

Dehydrofrigidation: for shelled corn conditioning. *Agr. Engr.*, 49, 4:202-05.

Bulletins and Technical Reports

Aerating stored dry grain. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ. 984*, 12 pp.

DOCTORAL DISSERTATIONS

Larsen, William E. (R. R. Yoerger, Adviser), A control system for off-highway vehicles.

Rastogi, Ram A. (B. A. Jones, Jr., Adviser), Morphological analysis and hydrologic response of small agricultural drainage basins.

AGRICULTURAL ENTOMOLOGY

ARMBRUST, EDWARD J., Assistant Professor

Articles

With G. G. Gyrisco

The influence of some physical and biological factors on the phototactic response of the alfalfa weevil, *Hypera postica*. *Ann. ent. Soc. Am.*, 61, 6:1561-66.

With M. C. Wilson

Chemical control of the alfalfa weevil in Illinois and Indiana. II. The importance of spray volume in aerial application. *J. econ. Ent.*, 61, 5:1201-03.

With M. C. Wilson, T. R. Hintz

Chemical control of the alfalfa weevil in Illinois and Indiana. I. Comparison of registered and experimental materials. *Ibid.*, 4:1050-54.

BANERJEE, AMAL C., Research Associate

Articles

Microsporidian diseases of sod webworms in bluegrass lawns. *Ann. ent. Soc. Am.*, 61, 2:544-45.

BROERSMA, DELMAR B., Assistant Professor

Articles

With W. H. Luckmann

Frequency of mating by the female onion maggot adult. *J. econ. Ent.*, 61, 2:568.

BRUCE, W. N., Professor

Articles

With K. S. Park

The determination of the water solubility of aldrin, dieldrin, heptachlor, and heptachlor epoxide. *J. econ. Ent.*, 61, 3:770-74.

DECKER, GEORGE C., Professor

Emeritus

Articles

With H. B. Cunningham

Winter survival and overwintering area of the potato leafhopper, *E. fabae*. *J. econ. Ent.*, 61, 1:154-61.

With C. Kouskolekas

A quantitative evaluation of factors affecting alfalfa yield reduction caused by the potato leafhopper attack. *Ibid.*, 4:921-27.

LABERGE, WALLACE E., Professor

Articles

A new bee of the genus *Andrena* from India (Hymenoptera: Andrenidae). *Entomol.*, 1968: 97-100.

Bulletins and Technical Reports

A revision of the bees of the genus *Andrena* of the Western Hemisphere. Part I. *Calandrena*. (Hymenoptera: Andrenidae). *Bull. Univ. Nebr. St. Mus.*, No. 7, 316 pp.

LUCKMANN, WILLIAM H., Professor

Articles

With D. B. Broersma

Frequency of mating by the female onion maggot adult. *J. econ. Ent.*, 61, 2:568.

MADDOX, JOSEPH V., Assistant Professor

Articles

Generation time of the microsporidian *Nosema necatrix* in larvae of the armyworm, *Pseudaletia unipuncta*. *J. Invert. Pathol.*, 11: 90-96.

MOORE, STEVENSON, III, Professor

Articles

With R. E. Sechriest

A field experiment with insecticide-impregnated baits to control the armyworm. *J. econ. Ent.*, 61, 3:879-80.

PARK, KEUN S., Assistant Chemist

Articles

With W. N. Bruce

The determination of the water solubility of aldrin, dieldrin, heptachlor, and heptachlor epoxide. *J. econ. Ent.*, 61, 3:770-74.

PETTY, HOWARD B., Professor

Articles

With S. Rachesky

Control of *Psychoda alternata* at a wastewater sewerage plant. *J. econ. Ent.*, 61, 4:1118-19.

SANDERSON, MILTON W., Professor

Articles

New West Indian Hispinae (Coleoptera: Chrysomelidae) with notes and keys. *Carib. J. Sci.*, 7, 3-4:135-40.

SECHRIEST, RALPH E., Assistant Professor

Articles

Greenhouse experiments with baits for control of the black cutworm. *J. econ. Ent.*, 61, 3:591-93.

With S. Moore, III

A field experiment with insecticide-impregnated baits to control the armyworm. *Ibid.*, pp. 879-80.

STANNARD, LEWIS J., Professor

Articles

Mixothrips, a new genus of gall making thrips (Thysanoptera: Phlaeothripidae). *Florida Entomol.*, 51, 3:135-41.

Bulletins and Technical Reports

The thrips, or Thysanoptera, of Illinois. *Bull. Ill. Nat. Hist. Survey*, 29, 4:215-552.

UNZICKER, JOHN D., Assistant Professor

Books

The comparative morphology and evolution of the internal female reproductive system of Trichoptera. *Ill. Biol. Mono.*, No. 40, Univ. Ill. Press, Urbana, 75 pp.

AGRICULTURE ADMINISTRATION

BENTLEY, ORVILLE G., Professor and Dean, College of Agriculture

Articles

New challenges for animal science teaching. *J. Ani. Sci.*, 27, 4:863-67.

New commitments for the land-grant university in a hungry world. In *The land-grant university and world food needs*, Univ. Ill. College of Agriculture, Urbana, pp. 156-62.

BRINEGAR, GEORGE K., Professor

Books

With L. P. Fettig

Some measures of the quality of agricultural credit. National Bureau of Economic Research, Inc., Columbia Univ. Press, N.Y., 51 pp.

Articles

Discussion: evaluation and planning of research in the experiment station. *Amer. J. Agr. Econ.*, 50, 5:1161.

CATE, HUBERT A., Associate Professor

Articles

With L. A. Arehart, J. M. Lewis

Slotted floors are practical for lambs. *Ill. Res.*, 10, 2:10-11.

With J. Hayes

The search in zoonoses research. *Ibid.*, 3: 10-11.

EVANS, JAMES F., Assistant Professor

Articles

Impression management and specialists. *J. Coop. Ext.*, 6, 4:207-15.

EVERLY, JACK C., Assistant Professor

Articles

Continuing education instruction via the mass media. In *Papers presented to the national seminar on adult education research*, by ERIC Clearinghouse on Adult Education, Syracuse, N.Y., 22 pp.

AGRONOMY

ALDRICH, SAMUEL R., Professor

Articles

Soil thermometers. *Crops and Soils*, 20:6-7. Beware of the "fertility quack." *Sugar Beet J.*, 33, 3:17.

Will you have nitrate problems? *Succ. Farming*, 5:42.

Substituting farmer experience for research is dangerous. *Crops and Soils*, 20, 9:4-6.

Better than a billion bushels! *Agr. Nitrogen News*, 18:22-26.

With W. M. Walker, T.R. Peck,

W. R. Oschwald

Nutrient levels in Illinois soils. *Ill. Res.*, 10, 3:12-13.

Bulletins and Technical Reports

With W. O. Scott, E. L. Knake, D. W. Graffis, W. R. Oschwald

Illinois agronomy handbook 1968. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 995, 51 pp.

ALEXANDER, DENTON E., Professor

Articles

With F. I. Collins, R. C. Rodgers, L. Silveira S.

Analysis of oil content of soybeans by wide-line NMR. *J. Amer. Oil Chemists' Soc.*, 44, 12:708-10.

With R. J. Lambert

Relationship of kernel oil content to yield in maize. *Crop Sci.*, 8: 272-74.

Spontaneous mutation rate at the opaque-2 locus in maize. *J. Heredity*, 59, 6:378-79.

With F. Scheuch, A. Manrique

La modificación de las proteínas del endosperma: un nuevo concepto en mejoramiento de maíz. *Anales Científicos*, 4:162-68.

Selección recurrente para contenido de aceite en maíz mediante el espectroscopio de resonancia magnética. *Ibid.*, pp. 169-73.

ALEXANDER, JOHN D., Assistant Professor

Articles

With J. B. Fehrenbacher, B. W. Ray

Illinois soils and factors in their development. *The Quaternary of Illinois. Univ. Ill., Coll. Agr. Spec. Pub.*, 14:165-75.

Bulletins and Technical Reports

Color chart for estimating organic matter in mineral soils in Illinois. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. and USDA cooperating*, Ag 1941. 4 pp.

BEAVERS, ALVIN H., Professor

Articles

With N. Ahmad, R. L. Jones

Genesis, mineralogy, and related properties of West Indian soils: I. Montserrat series, derived from glauconitic sandstone, central Trinidad. *J. Soil Sci.*, 19, 1:1-8.

Genesis, mineralogy, and related properties of West Indian soils: II. Maracas series, formed from micaceous schist and phyllite, Northern Range, Trinidad. *Ibid.*, pp. 9-19.

BERNARD, RICHARD L., Associate Professor

Articles

With D. W. Chamberlain

Resistance to brown stem rot in soybeans. *Crop Sci.*, 8:728-29.

Bulletins and Technical Reports

With J. E. Dillon, D. W. Graffis, W. O. Scott
1967 soybean variety performance in Illinois.
Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.
978. 11 pp.

BOONE, LESTER V., Associate Agronomist

Articles

The Morrow Plots—a national historic landmark. *Ill. Res.*, 10, 4:3-4.

With L. F. Welch

How fertilizer affects field drying of corn.
Ibid., 2:3-4.

BOYER, JOHN S., Assistant Professor

See Botany.

BRAIDS, OLIN C., Assistant Professor

Articles

With F. J. Stevenson

Variation in the relative distribution of amino sugars with depth in some soil profiles. *Soil Sci. Soc. Amer. Proc.*, 32: 598-99.

Articles

With T. D. Hinesly, J. A. Molina, R. I. Dick
Disposal of digested sludge on farm land.
Solid Waste, Res. and Devel., 11, Engineering Foundation Res. Conf., p. D-7.

CARMER, SAMUEL G., Associate Professor

Articles

Agronomy keeps pace with new computer.
Ill. Res., 10, 4:11.

With A. M. Rhodes, W. P. Bemis,
T. W. Whitaker

A numerical study of cucurbita. *Brittonia*, 20:251-66.

With J. B. Fehrenbacher, P. E. Johnson

Gypsum for high sodium soils? *Crops and Soils*, 21, 1:14.

DEWET, JOHANNES M. J., Professor

Articles

Biosystematics of the *Bothriochloa barbinodis* complex (Gramineae). *Amer. J. Bot.* 55: 1246-50.

Diploid-tetraploid-haploid cycles and the origin of variability in *Dichanthium* agamospecies. *Evol.*, 22:394-97.

The origin of weediness in plants. *Okl. Acad. Sci.*, 47:14-17.

With J. R. Harlan

Taxonomy of *Dichanthium* section *Dichanthium* (Gramineae). *Bol. Soc. Argent. Bot.*, 12:206-27.

DILLON, JOHN E., Associate Agronomist

Bulletins and Technical Reports

With R. L. Bernard, D. W. Graffis,
W. O. Scott

1967 soybean variety performance in Illinois.
Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.
978. 11 pp.

FEHRENBACHER, JOE B., Professor

Articles

With B. W. Ray, J. D. Alexander

Illinois soils and factors in their development. *The Quaternary of Illinois*, Univ. Ill. Coll. Agr., Spec. Pub., 14:165-75.

With S. G. Carmer, P. E. Johnson

Gypsum for high sodium soils? *Crops and Soils*, 21, 1:14.

With C. J. Frazer, R. T. Odell

Hydraulic conductivity and moisture regimes in solonchetic and associated soils in south-central Illinois. *Soil Sci.*, 105, 5:362-68.

Bulletins and Technical Reports

With W. D. Parks

Soil survey Pulaski and Alexander counties, Illinois. *USDA SCS*, in cooperation with *Univ. Ill. Agr. Exp. Sta.* 121 pp.

Reviews

Physical properties of soils, by N. Narayana and C. C. Shah. *Soil Sci. Soc. Amer. Proc.*, 31, 5:vi.

GRAFFIS, DONALD W., Associate Professor

Bulletins and Technical Reports

With J. E. Dillon, R. L. Bernard, W. O. Scott
1967 soybean variety performance in Illinois.
Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ. 978. 11 pp.

With W. O. Scott, E. L. Knake,
S. R. Aldrich, W. R. Oschwald

Illinois agronomy handbook 1968. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 995. 51 pp.

With R. J. Lambert, G. L. Ross, K. E. Williams
1966-68 performance of commercial corn hybrids in Illinois. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 993. 28 pp.

HADLEY, HENRY H., Professor

Articles

With B. B. Singh, F. I. Collins

Distribution of fatty acids in germinating soybean seed. *Crop Sci.*, 8:171-73.

With R. G. Palmer

Interspecific hybridization in *Glycine*, subgenus *Leptocyamus*. *Ibid.*, pp. 557-63.

With B. B. Singh

Maternal control of oil synthesis in soybeans, *Glycine max* (L.) Merr. *Ibid.*, pp. 622-25.

HAGEMAN, RICHARD H., Professor

Articles

With L. E. Schrader

Regulations of nitrate reductase activity in corn (*Zea mays* L.) seedlings by endogenous metabolites. *Plant Physiol.*, 42: 1750-56.

With L. E. Schrader, G. L. Ritenour,
G. L. Eilrich

Some characteristics of nitrate reductase from higher plants. *Ibid.*, 43:930-40.

With N. E. Tolbert, A. Oeser, T. Kisaki,
R. Y. Yamazaki

Peroxisomes from spinach leaves containing enzymes related to glycolate metabolism. *J. Biol. Chem.*, 243:5179-84.

With T. C. Hsiao, E. H. Tyner

Effects of potassium nutrition on ribonucleic acid and ribonuclease in *Zea mays* L. *Plant Physiol.*, 43:1941-46.

With P. E. Curtis, E. R. Leng

Developmental changes in oil and fatty acid content of maize strains varying in oil content. *Crop Sci.*, 8:689-93.

HANSON, JOHN B., Professor

See Botany.

HARLAN, JACK R., Professor

Articles

On the origin of barley. In *Barley: origin, botany culture, winter-hardiness, genetics*,

utilization, pests, ed. by G. A. Wiebe. *Agr. Handbook No. 338, ARS/USDA, Wash., D.C., pp. 9-31.*

With J. M. J. de Wet

Taxonomy of *Dichanthium* section *Dichanthium* (Gramineae). *Bol. Soc. Argent. Bot.*, 12:206-27.

HARPER, JAMES E., Assistant Professor

Articles

With G. M. Paulsen

Influence of intensity, quality and duration of light on nitrogen reduction and assimilation in wheat. *Crop Sci.*, 8:537-39.

Evidence for a role of calcium in nitrate assimilation in wheat seedlings. *Plant Physiol.*, 43:775-80.

HINESLY, THOMAS D., Assistant Professor

Articles

With O. C. Braids, R. I. Dick, J. A. Molina

Disposal of digested sludge on farm land. *Solid Waste, Res. and Develop.*, II, Engineering Foundation Research Conf., p. D-7.

HOOKER, ARTHUR L., Professor

See Plant Pathology.

HYMOWITZ, THEODORE, Assistant

Professor

Articles

With H. P. Steenmeijer, A. Cardoso, P. Nuti

Informacoes iniciais sobre *Stylosanthes gracilis* — "IRI 1022" — Alfalfa do Nordeste. *Zootecnia*, 5, 2:39-41.

With P. Nuti, H. Mascarenhas

Investigacoes preliminares de introducao de "*Cicer arietenum* L." (Epocha de plantio e adaptacao em condicoes normais de outono-inverno no Estado de Sao Paulo). *Boletim de Industria Animal*, 24, 1:139-45.

With F. J. Verneti, H. L. Shands

The Brazilian national soybean program. *Soybean Dig.*, 28:62-65.

JOHNSON, PERCY E., Assistant Professor

Articles

With S. G. Carmer, J. B. Fehrenbacher

Gypsum for high sodium soils? *Crops and Soils*, 21, 1:14.

JONES, ROBERT L., Associate Professor

Articles

With N. Ahmad, A. H. Beavers

Genesis, mineralogy, and related properties of West Indian soils: I. Montserrat series derived from glauconitic sandstone, central Trinidad. *J. Soil Sci.*, 19, 1:1-8.

Genesis, mineralogy, and related properties of West Indian soils: II. Maracas series, formed from micaceous schist and phyllite, Northern Range, Trinidad. *Ibid.*, 19, 1: 9-19.

With H. C. Hanson

Use of feather minerals as biological tracers to determine the breeding and molting grounds of wild geese. *Ill. Nat. Hist. Surv. Biol. Note* 60. 8 pp.

With R. F. Labisky, W. L. Anderson

Selected minerals in soils, plants, and pheasants: an ecosystem approach to understanding pheasant distribution in Illinois: *Ibid.*, Note 63. 8 pp.

KLUTE, ARNOLD, Professor

Articles

With F. D. Whisler, D. B. Peters

Soil water diffusivity from horizontal infiltration. *Soil Sci. Soc. Amer. Proc.*, 32, 1:6-11.

With P. A. C. Raats

Transport in soils: the balance of mass.

Ibid., 2:161-66.

Transport in soils: the balance of momentum.

Ibid., 4:452-56.

With F. D. Whisler, R. J. Millington

Analysis of steady-state evapotranspiration from a soil column. *Ibid.*, 2:167-74.

KNAKE, ELLERY L., Associate Professor

Articles

Atrazine and oil kills weeds postemergence.

Hoard's Dairyman, 113:525.

Incorporate herbicides into the soil? *Ibid.*, p. 584.

Fencerow weed control made easy. *Down to Earth*, 23, 4:2.

With L. M. Wax

The importance of the shoot of giant foxtail for uptake of preemergence herbicides. *Weed Sci.*, 16:393-95.

With C. E. Sommers

Programming weed control — corn. *Succ. Farming*, 66:67.

Programming weed control — soybeans. *Ibid.*, pp. 68-69.

Ideas for preventing herbicide injury. *Ibid.*, pp. 21-23.

With J. D. Doll, B. J. Butler

Effects of wear on nozzle tips. *Ill. Res.*, 1: 10-11.

With A. P. Appleby, W. R. Furtick

Soil incorporation and site of uptake of pre-emergence herbicides. *Weeds*, 15, 3:228-32.

With C. Cross

A state survey of weed control practices. *WSSA Proc.*, 8:96.

With S. R. Aldrich, W. O. Scott,

D. W. Graffus, W. R. Oschwald

Illinois agronomy handbook 1968. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 995. 51 pp.

KURTZ, LESTER T., Professor

Articles

With E. J. Dunphy, M. E. Meissen,

C. E. Fulcher

Tolerance of soybean varieties to high levels of phosphorus fertilizer. *Soil Sci. Soc. Amer. Proc.*, 32, 2:383-85.

With H. L. S. Tandon, E. C. Marcusiu

Determination of aluminum in the presence of fluoride by emission spectroscopy. *Appl. Spectroscopy*, 22, 4:283-85.

With H. L. S. Tandon

Isotopic exchange characteristics of aluminum- and iron-bound fractions of soil phosphorus. *Soil Sci. Soc. Amer. Proc.*, 32, 6:799-802.

LAMBERT, ROBERT J., Assistant Professor

Articles

With D. E. Alexander

Relationship of oil content to yield in maize. *Crop Sci.*, 8:272-74.

Spontaneous mutation rate at the opaque-2 locus in maize. *J. Heredity* 59, 6:378-79.

Bulletins and Technical Reports

With D. W. Graffis, G. L. Ross,
K. E. Williams

1966-68 performance of commercial corn hybrids in Illinois. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 993. 28 pp.

LENG, EARL R., Professor

Articles

Soybeans — potential for extension to areas of protein shortage. *Econ. Bot.*, 22, 37:41.

With P. E. Curtis, R. H. Hageman

Developmental changes in oil and fatty acid content of maize strains varying in oil content. *Crop Sci.*, 8:689-93.

MARCUSIU, EMIL C., Associate Agronomist

Articles

With L. T. Kurtz, H. L. S. Tandon

Determination of aluminum in the presence of fluoride by emission spectroscopy. *Appl. Spectroscopy*, 22:283-85.

McKIBBEN, GEORGE E., Associate

Professor

Articles

With J. W. Pendleton

Double cropping in Illinois. *Ill. Res.*, 10, 3: 6-7.

MILLER, RAYMOND J., Associate Professor

Articles

Electron micrographs of acid-edge attack of kaolinite. *Soil Sci.*, 105:166-71.

With J. B. Hanson, S. W. Dumford

Uncoupling of respiration-linked contraction in corn mitochondria. *Plant Phys.*, 43: 811-14.

With A. R. Overman

Convective diffusion in capillaries. *J. Phys. Chem.*, 72:153-58.

With N. Street, K. Han

The energy of activation of clay suspension conductance. *9th Internl. Cong. Soil Sci.*, 1:535-45.

With A. R. Overman, J. H. Peverly

Hydraulic conductivity measurements with a pressure transducer. *Soil Sci. Soc. Amer. Proc.*, 32:884-86.

With C. Pinkham, A. R. Overman,

S. W. Dumford

Temperature effects on acid hydrolysis of glucose 1-phosphate and urease hydrolysis of urea. *Biochim. Biophys. Acta*, 167: 607-9.

MILLINGTON, RICHARD J., Associate

Professor

Articles

With J. R. Burford

Nitrous oxide in the atmosphere of a red-brown earth. *9th Internl. Cong. Soil Sci. Trans.*, 2:505-11.

With J. K. Powrie

Dissolution and leaching of fertilizer granules. *Ibid.*, 3:385-93.

With F. D. Whisler, A. Klute

Analysis of steady-state evapotranspiration from a soil column. *Soil Sci. Soc. Amer. Proc.*, 32, 2:167-74.

MOLINA, JEAN-ALEX E., Assistant

Professor

Articles

With T. D. Hinesly, O. C. Braids, R. I. Dick
Disposal of digested sludge on farm land.

Solid Waste, Res. and Devel., II, Engineering Foundation Res. Conf., p. D-7.

ODELL, RUSSELL T., Professor

Books

With J. D. Dijkerman

Properties, classification, and use of tropical soils, with special reference to those in Sierra Leone. Njala University College, Sierra Leone. 137 pp.

Articles

With C. J. Frazee, J. B. Fehrenbacher

Hydraulic conductivity and moisture regimes in solonchic and associated soils in south-central Illinois. *Soil Sci.*, 105, 5:362-68.

OSCHWALD, WILLIAM R., Associate

Professor

Articles

Comparison of tillage systems. *Dairy Herd Management*. Sept., pp. 30-32; 64.

Farmers break away from conventional tillage methods. *Prairie Farmer*, 140, 19: 57-58.

With W. M. Walker, T. R. Peck, S. R. Aldrich

Nutrient levels in Illinois soils. *Ill. Res.*, 10, 3:12-13.

With C. J. W. Drablos

Factors affecting irrigation practices and design of sprinkling systems. *The Landscaper*, 3, 4:8-12.

Bulletins and Technical Reports

With S. R. Aldrich, W. O. Scott, E. L. Knaek,
D. W. Graffis

Illinois agronomy handbook 1968. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 995. 51 pp.

PECK, THEODORE R., Assistant Professor

Articles

Plant and soil analysis survey. *Ill. Fert. Conf. Proc.*, pp. 10-15.

Timely tips on crops and soils — soil testing. *Prairie Farmer*, 18:46.

With W. M. Walker, S. R. Aldrich,

W. R. Oschwald

Nutrient levels in Illinois soils. *Ill. Res.*, 10, 3:12-13.

PENDLETON, JOHNNY W., Professor

Articles

With G. E. Smith, S. R. Winter,

T. J. Johnston

Field investigations of the relationships of leaf angle in corn (*Zea mays* L.) to grain yield and apparent photosynthesis. *Agron. J.* 60:422-24.

With M. Singh, D. B. Peters

Net and spectral radiation in soybean canopies. *Ibid.*, pp. 542-45.

With T. J. Johnston

Contribution of leaves at different canopy levels to seed production of upright and lodged soybeans (*Glycine max* L.) *Crop Sci.*, 8:291-92.

With L. M. Wax

Effect of row spacing on weed control in soybeans. *Weed Sci.*, 16:462-65.

Influence of 2,4,5-triiodobenzoic acid (TIBA) on soybeans planted in different cultural systems. *Agron. J.*, 60:425-27.

With G. E. McKibben

Double cropping in Illinois. *Ill. Res.*, 10, 3:6-7.

PETERS, DOYLE B., Professor

Articles

Water use by plants. *Plant Food Rev.*, 14, 1:14-16.

With F. D. Whisler, A. Klute

Soil water diffusivity from horizontal infiltration. *Soil Sci. Soc. Amer. Proc.*, 32, 1: 6-11.

With M. Singh, J. W. Pendleton

Net and spectral radiation in soybean canopies. *Agron. J.*, 60:542-45.

RAY, BURTON W., Assistant Professor

Articles

With J. B. Fehrenbacher, J. D. Alexander

Illinois soils and factors in their development. *The Quaternary of Illinois, Univ. Ill. Coll. Agr. Spec. Pub.*, 14:165-75.

RUNGE, EDWARD C. A., Associate Professor

Articles

Effects of rainfall and temperature interactions during the growing season on corn yield. *Agron. J.*, 60:503-7.

SABEY, BURNS R., Associate Professor

Articles

The influence of nitrification suppressants on the rate of ammonium oxidation in mid-western U.S.A. soils. *Soil Sci. Soc. Amer. Proc.*, 32, 5:675-79.

SCOTT, WALTER O., Professor

Bulletins and Technical Reports

With J. E. Dillon, R. L. Bernard,
D. W. Grafis

1967 soybean variety performance in Illinois. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 978. 11 pp.

With S. R. Aldrich, E. L. Knake,
D. W. Grafis, W. R. Oswald

Illinois agronomy handbook 1968. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 995. 51 pp.

SLIFE, FRED W., Professor

Articles

With J. Cardenas, J. B. Hanson, H. Butler

Physiological changes accompanying the death of cocklebur plants treated with 2,4-D. *Weed Sci.*, 16, 1:96-100.

With J. B. Hanson

Role of RNA metabolism in the action of auxin-herbicides. *Res. Rev.*, p. 25.

STEVENSON, FRANK J., Professor

Articles

With G. J. Gascho

An improved method for extracting organic matter from soil. *Soil Sci. Soc. Amer. Proc.*, 32:117-19.

With O. C. Braids

Variation in the relative distribution of amino sugars with depth in some soil profiles. *Ibid.*, pp. 598-600.

STOLLER, EDWARD W., Assistant Professor

Articles

Differential phytotoxicity of an amiben metabolite. *Weed Sci.*, 16:384-86.

With L. M. Wax

Amiben metabolism and selectivity. *Ibid.*, pp. 283-88.

TYNER, EDWARD H., Professor

Articles

With H. L. S. Tandon, M. P. Cescas

An acid-free vanadate-molybdate reagent for the determination of total phosphorus in soils. *Soil Sci. Soc. Amer. Proc.*, 32, 1: 48-51.

With M. P. Cescas, L. J. Gray

The electron microprobe x-ray analyzer and its use in soil investigations. *Adv. Agron.*, 20:153-98.

With T. C. Hsiao, R. H. Hageman

Effects of potassium nutrition on ribonucleic acid and ribonuclease in *Zea mays* L. *Plant Physiol.*, 43:1941-46.

WALKER, WILLIAM M., Assistant Professor

Articles

Soil and plant analysis: a progress report on calibration. *Proc. Ill. Fert. Conf.*, pp. 47-48.

With L. F. Welch

Band vs. broadcast fertilizer applications. *Ill. Res.*, 10, 2:6-7.

With T. R. Peck, S. R. Aldrich,
W. R. Oswald

Nutrient levels in Illinois soils. *Ibid.*, 3: 12-13.

WAX, LOYD M., Assistant Professor

Articles

With J. W. Pendleton

Influence of 2,3,5-triiodobenzoic acid (TIBA) on soybeans planted in different cultural systems. *Agron. J.*, 60:425-27.

Effect of row spacing on weed control in soybeans. *Weed Sci.*, 16:462-65.

With E. L. Knake

The importance of the shoot of giant foxtail for uptake of preemergence herbicides. *Ibid.*, pp. 393-95.

With E. W. Stoller

Amiben metabolism and selectivity. *Ibid.*, pp. 283-88.

WELCH, LOUIS F., Associate Professor

Articles

With L. V. Boone

How fertilizer affects field drying of corn. *Ill. Res.*, 10, 2:3-4.

With W. M. Walker

Band versus broadcast fertilizer application. *Ibid.*, pp. 6-7.

With S. R. Wilkinson, G. A. Hillsman,
W. A. Jackson

Compatibility of tall fescue and coastal bermudagrass as affected by nitrogen fertilization and height of clip. *Agron. J.*, 60: 359-62.

With S. R. Wilkinson, G. A. Hillsman

Southern farmers can double-up bermudagrass and rye crops. *Crops and Soils*, 21:21.

WILSON, C. M., Associate Professor

Articles

Plant nucleases. I. Separation and purification of two ribonucleases and one nuclease from corn. *Plant Physiol.*, 43:1332-38.

Plant nucleases. II. Properties of corn ribonucleases I and II and corn nuclease I. *Ibid.*, pp. 1339-46.

DOCTORAL DISSERTATIONS

- Alcordero, Isabelo S. (E. H. Tyner, Adviser), The flow properties of montmorillonite, fe-montmorillonite, al-montmorillonite, and soil clay suspensions and their changes with anaerobic reduction.
- Cescas, Michel (E. H. Tyner, Adviser), Rate of rock phosphate disappearance for the Morrow Plots and electron microprobe analysis of soil concretions and mineral inclusions.
- Curtis, Paul E. (R. H. Hageman, Adviser), Varietal differences in photosynthetic reactions of the soybean (*Glycine max* (L.) Merrill).
- Dumford, Stephen W. (R. J. Miller, Adviser), The effect of divalent inorganic cations on the energy driven reactions of corn mitochondria.
- Eilrich, Gary L. (R. H. Hageman, Adviser), Nitrate reductase activity in wheat (*Triticum aestivum* L.) and its relationship to grain protein production as affected by genotype and spring application of calcium nitrate.
- Hicks, Dale R. (J. W. Pendleton, Adviser), Evaluation of soybean genotypes with respect to the ecological factor light and the effect of flower and bud removal on agronomic characteristics.
- Johnston, Taylor J. (J. W. Pendleton, Adviser), Field studies of light relationships as affecting seed yields and photosynthesis of individual leaves within canopies of soybeans (*Glycine max* (L.) Merrill).
- Krueger, William A. (J. B. Hanson, Adviser), Respiratory senescence in corn shoots.
- Lueschen, William E. (C. N. Hittle, Adviser), Yield and tiller development of a sudangrass and a sorghum-sudangrass hybrid as influenced by clipping treatments and growth stage at harvest.
- Malik, Dalip S. (C. N. Hittle, Adviser), Effect of various factors on yield and yield components in wheat and soybeans.
- Paulson, Kenneth N. (L. T. Kurtz, Adviser), The locus of urease activity in the soil.
- Reiss, William D. (J. A. Jackobs, Adviser), Factors influencing development of alfalfa (*Medicago sativa* L.): companion crop, orchardgrass (*Dactylis glomerata* L.), and fertilizer.
- Shrivastava, Jagdish P. (C. N. Hittle, Adviser), Performance of alfalfa blends, prediction of yield components and a technique of yield estimation.
- Spiss, Ludwik (C. N. Hittle, Adviser), Studies on self-incompatibility in birdsfoot trefoil, *Lotus corniculatus* L.
- Tandon, Hari L. (L. T. Kurtz, Adviser), Characterization of the aluminum-bound fraction of soil phosphorus.
- Warner, Robert L. (R. H. Hageman, Adviser), Inheritance of nitrate reductase activity and characterization of nitrate reductase in *Zea mays*.

ANIMAL SCIENCE

ALBERT, WACO W., Assistant Professor

Articles

With L. D. Ferrell, U. S. Garrigus

Husklage: its nutritive value for wintering pregnant beef heifers. *Ill. Res.*, 10, 4: 9-10.

With D. L. Cox

Beef cows winter well on stalklage ration. *Ibid.*, pp. 7-8.

BAKER, DAVID H., Assistant Professor

Articles

With D. E. Becker, A. H. Jensen, B. G. Harmon

Effect of dietary dilution on performance of finishing swine. *J. Ani. Sci.*, 27, 3: 1332-35.Influence of microbiota on metabolic fecal nitrogen in rats. *J. Nutr.*, 96, 3:391-96.

With M. Sugahara, H. M. Scott

The glycine-serine interrelationship in chick nutrition. *Poultry Sci.*, 47, 4:1376-77.

With E. R. Diller, C. E. Jordan

Effect of a combination of diethylstilbestrol and methyltestosterone, sex and dietary protein level on some serum lipids of finishing swine. *J. Ani. Sci.*, 27, 3:660-65.

With D. L. Meyer, W. P. Waitt, A. L. Melliore, C. E. Jordan

Effects of a dietary combination of diethylstilbestrol and methyltestosterone on reproductive performance of gilts. *Ibid.*, 4: 1045-48.

BECKER, DONALD E., Professor

Articles

With D. H. Baker, B. G. Harmon, A. H. Jensen

Effect of dietary dilution on performance of finishing swine. *J. Ani. Sci.*, 27, 5:1332-35.Influence of microbiota on metabolic fecal nitrogen in rats. *J. Nutr.*, 96, 3:391-96.

With B. G. Harmon, A. H. Jensen, H. W. Norton

Effect of Na₂EDTA in diets of different iron levels on utilization of calcium, phosphorus and iron by rats. *J. Ani. Sci.*, 27, 2:418-23.

With B. G. Harmon, J. L. Cox, H. W. Norton, A. H. Jensen

Influence of ambient temperature stress on response of pregnant rats to dietary protein levels. *Ibid.*, 3:650-55.Response of pregnant rats to sources of dietary nitrogen and cold exposure. *Ibid.*, 6:1567-71.

With J. R. Mitchell, Jr., B. G. Harmon, H. W. Norton, A. H. Jensen

Some amino acid needs of the young pig fed a semisynthetic diet. *Ibid.*, 5:1322-26.Determination of amino acid needs of the young pig by nitrogen balance and plasma-free amino acids. *Ibid.*, 5:1327-31.

BRAY, DONALD J., Professor

Articles

The effect of the ratio of corn to soybean protein in layer diets upon the response to supplemental amino acids. *Poultry Sci.*, 47, 3:815-21.Photoperiodism and age as factors affecting the protein requirements of laying pullets. *Ibid.*, pp. 1005-13.

CHAKRABARTY, KRISHNA, Research Associate

Articles

With G. A. Leveille

Total lipid and cholesterol levels in plasma and liver of rats fed diets supplemented with sulfaguanidine or succinylsulfathiazole. *J. Nutr.*, 95, 1:88-94.

Absorption and utilization of glucose by meal-fed and nibbling rats. *Ibid.*, 96, 1:69-75.

Influence of periodicity of eating on the activity of various enzymes in adipose tissue, liver and muscle of the rat. *Ibid.*, 1:76-82.

In vivo and *in vitro* studies of gluconeogenesis in meal-fed and nibbling rats. *Ibid.*, 3:397-402.

Conversion of pyruvate to glyceride-glycerol in adipose tissue of obese and nonobese mice. *Arch. Biochem. Biophys.*, 125, 1:259-68.

With G. A. Levcille, E. K. O'Hea

In vivo lipogenesis in the domestic chicken. *Proc. Soc. Exp. Biol. and Med.*, 128, 2:398-401.

CMARIK, GEORGE F., Assistant Professor

Articles

With F. C. Hinds, M. E. Mansfield, J. E. Zimmerman

Influence of aspiration biopsy of liver on cattle gains and liver vitamin A values. *J. Ani. Sci.*, 27, 2:505-08.

With G. T. Woods, M. E. Mansfield, M. Zinzilieta, G. Marquis

Vaccination of beef calves before weaning with a live-virus bovine myxovirus parainfluenza-3 vaccine. *Am. J. Vet. Res.*, 29, 7:1349-53.

COOK, BRIAN, Assistant Professor

Articles

With A. V. Nalbandov

Reproduction. In *Annual review of physiology*, ed. by Victor E. Hall, Annual Reviews, Inc., Palo Alto, Calif., pp. 245-78.

The effect of some pituitary hormones on progesterone synthesis *in vitro* by the luteinized ovary of the common opossum (*Didelphis marsupialis virginiana*). *J. Reprod. Fert.*, 15, 2:267-75.

With G. D. Niswender, N. S. Sutterlin, H. W. Norton, A. V. Nalbandov

The influence of some steroids, including estrogens, on progesterone synthesis *in vitro* by porcine corpora lutea. *Steroids*, 11, 3:321-36.

With P. J. Dziuk, G. D. Niswender, C. C. Kaltenbach, B. B. Doane

Inhibition and control of estrus and ovulation in ewes with a subcutaneous implant of silicone rubber impregnated with a progestogen. *Am. J. Vet. Res.*, 29, 12:2415-17.

DZIUK, PHILIP J., Professor

Articles

Effect of number of embryos and uterine space on embryo survival of the pig. *J. Ani. Sci.*, 27, 3:673-76.

Egg transfer in cattle, sheep and pigs. In *The mammalian oviduct*, ed. by Hafez and Blandau, Univ. Chicago Press, pp. 407-17.

With D. S. Dhindsa

The effect on pregnancy in the pig after killing embryos or fetuses in one uterine horn in early gestation. *J. Ani. Sci.*, 27, 1:122-26.

Influence of varying the proportion of uterus occupied by embryos on maintenance of pregnancy in the pig. *Ibid.*, 3:668-72.

With R. H. F. Hunter

Sperm penetration of pig eggs in relation to the timing of ovulation and insemination. *J. Reprod. Fert.*, 15, 2:199-208.

With C. N. Graves

Control of ovulation in dairy cattle with human chorionic gonadotrophin after treatment with 6 α -methyl-17 α -acetoxyprogesterone. *Ibid.*, 17, 1:169-72.

With O. C. Miller

Migration of embryos in the anastomosed uterine horns of the pig. *Anat. Rec.*, 162, 2:137-38.

With R. D. Baker, H. W. Norton

Effect of volume of semen, number of sperm and drugs on transport of sperm in artificially inseminated gilts. *Ibid.*, 1:88-93.

With J. F. Roche, J. R. Lodge

Competition between fresh and aged spermatozoa in fertilizing rabbit eggs. *J. Reprod. Fert.*, 16, 1:155-57.

With B. Cook, G. D. Niswender, C. C. Kaltenbach, B. B. Doane

Inhibition and control of estrus and ovulation in ewes with a subcutaneous implant of silicone rubber impregnated with a progestogen. *Am. J. Vet. Res.*, 29, 12:2415-17.

EDMAN, MARJORIE, Research Associate

Articles

With R. M. Forbes, B. C. Johnson

Harold Hanson Mitchell—a biographical sketch (1886-1966). *J. Nutr.*, 96, 1:1-9.

FORBES, RICHARD M., Professor

Articles

With D. L. Meyer

Roles of thyroid and parathyroid hormones in renal calcification induced by magnesium deficiency in the rat. *Proc. Soc. Exp. Biol. and Med.*, 128, 1:157-63.

With Marjorie Edman, B. C. Johnson

Harold Hanson Mitchell—a biographical sketch (1886-1966). *J. Nutr.*, 96, 1:1-9.

GARRIGUS, UPSON S., Professor

Articles

Conversion of nonprotein nitrogen to animal protein for human consumption. *Univ. Ill. Coll. Agr. Spec. Pub.* 12, pp. 19-32.

With W. W. Albert, L. D. Ferrell

Husklage: its nutritive value for wintering pregnant beef heifers. *Ill. Res.*, 10, 4:9-10.

With S. P. Arora, E. E. Hatfield, F. E. Romack, H. Motyka

Effect of adaptation to dietary nitrate on thyroxine secretion rate and growth in lambs. *J. Ani. Sci.*, 27, 5:1445-48.

With K. K. Bolsen, E. E. Hatfield, P. E. Lamb, B. B. Doane

Effects of sources of supplemental nitrogen and minerals, level of chlortetracycline, and moisture content of corn on the performance of ruminants fed all-concentrate diets. *Ibid.*, 6:1663-68.

With S. D. Farlin, R. E. Brown

In vivo metabolism of biuret and urea by sheep. *Ibid.*, 3:771-75.

With S. D. Farlin, E. E. Hatfield

Changes in metabolism of biuret during adjustment to a biuret-supplemented diet. *Ibid.*, 3:785-89.

With S. D. Farlin, E. E. Hatfield, R. J. Condon

Utilization of biuret as a source of non-specific nitrogen in a crystalline amino acid chick diet. *J. Nutr.*, 94, 1:32-36.

With A. L. Pope, C. W. Cook, W. E. Dimusson, W. C. Weir

Nutrient requirements of domestic animals. No. 5. Nutrient requirements of sheep (4th rev. ed.). National Academy of Sciences, National Research Council Pub. 1963, 64 pp.

GRABER, JEAN W., Assistant Professor

Articles

With A. C. Bent, others

Passerherbulus henslowii henslowii (Audubon), Western henslow's sparrow. In *Life histories of North American cardinals, grosbeaks, buntings, towhees, finches, sparrows, and allies; order passeriformes: family fringillidae*, ed. by Oliver L. Austin, Smithsonian Institution, U. S. National Museum, Washington, D. C., pp. 779-88.

With C. C. Kaltenbach, G. D. Niswender, A. V. Nalbandov

Effect of hypophysectomy on the formation and maintenance of corpora lutea in the ewe. *Endocrinology*, 82, 4:753-59.

Luteotrophic properties of some pituitary hormones in nonpregnant or pregnant hypophysectomized ewes. *Ibid.*, 4:818-24.

HARMON, BUD G., Associate Professor

Articles

Multiple media methods in teaching animal science. In *Utilizing instructional resources in agriculture*. Proc. Conf. Deans and Directors of Resident Instruction in Agriculture, pp. 27-30.

With J. H. Behrens

Autotutorial resources in animal science teaching. *J. Natl. Assn. Coll. and Tchrs. Agr.* 12, 2:28-30.

Autotutorial resources in animal science teaching. *J. Ani. Sci.*, 27, 4:941-43.

With D. E. Becker, A. H. Jensen, H. W. Norton

Effect of Na₂EDTA in diets of different iron levels on utilization of calcium, phosphorus and iron by rats. *Ibid.*, 2:418-23.

With J. L. Cox, D. E. Becker, H. W. Norton, A. H. Jensen

Influence of ambient temperature stress on response of pregnant rats to dietary protein levels. *Ibid.*, 3:650-55.

Response of pregnant rats to sources of dietary nitrogen and cold exposure. *Ibid.*, 6:1567-71.

With D. E. Becker, A. H. Jensen, D. H. Baker

Influence of microbiota on metabolic fecal nitrogen in rats. *J. Nutr.*, 96, 3:391-96.

Effect of dietary dilution on performance of finishing swine. *J. Ani. Sci.*, 27, 5:1332-35.

With J. R. Mitchell, Jr., D. E. Becker, H. W. Norton, A. H. Jensen

Some amino acid needs of the young pig fed a semisynthetic diet. *Ibid.*, pp. 1322-26.

Determination of amino acid needs of the young pig by nitrogen balance and plasma-free amino acids. *Ibid.*, pp. 1327-31.

HATFIELD, EFTON E., Professor

Articles

With S. P. Arora, U. S. Garrigus, F. E. Romack, H. Motyka

Effect of adaptation to dietary nitrate on thyroxine secretion rate and growth in lambs. *J. Ani. Sci.*, 27, 5:1445-48.

With K. K. Bolsen, P. E. Lamb, B. B. Doane
Effects of sources of supplemental nitrogen and minerals, level of chlortetracycline, and

moisture content of corn on the performance of ruminants fed all-concentrate diets. *Ibid.*, 6:1663-68.

With S. D. Farlin, U. S. Garrigus

Changes in metabolism of biuret during adjustment to a biuret-supplemented diet. *Ibid.*, 3:785-89.

With S. D. Farlin, U. S. Garrigus, R. J. Condon

Utilization of biuret as a source of non-specific nitrogen in a crystalline amino acid chick diet. *J. Nutr.*, 94, 1:32-36.

With G. T. Schelling

Effect of abomasally infused nitrogen sources on nitrogen retention of growing lambs. *Ibid.*, 96, 3:319-26.

HINDS, FRANK C., Assistant Professor

Articles

With B. E. Bremer, P. E. Lamb

Weaning beef calves at 80 days of age. *Ill. Res.*, 10, 3:9.

With R. J. Huggard, G. E. McKibben

Influence of soluble carbohydrate content and protein level on *in vitro* cellulose digestion in orchardgrass. *Trans. Ill. Acad. Sci.*, 61, 2:122-31.

With A. P. Peter, G. E. Richards

Methods of extracting vitamin A from liver. *J. Ani. Sci.*, 27, 6:1678-81.

With G. F. Cmarik, M. E. Mansfield, J. E. Zimmerman

Influence of aspiration biopsy of liver on cattle gains and liver vitamin A values. *Ibid.*, 2:505-8.

JENSEN, ALDON H., Professor

Articles

With B. G. Harmon, D. E. Becker, H. W. Norton

Effect of Na₂EDTA in diets of different iron levels on utilization of calcium, phosphorus and iron by rats. *J. Ani. Sci.*, 27, 2:418-23.

With J. L. Cox, B. G. Harmon, D. E. Becker, H. W. Norton

Influence of ambient temperature stress on response of pregnant rats to dietary protein levels. *Ibid.*, 3:650-55.

Response of pregnant rats to sources of dietary nitrogen and cold exposure. *Ibid.*, 6:1567-71.

With J. R. Mitchell, Jr., D. E. Becker, B. G. Harmon, H. W. Norton

Some amino acid needs of the young pig fed a semisynthetic diet. *Ibid.*, 5:1322-26.

Determination of amino acid needs of the young pig by nitrogen balance and plasma-free amino acids. *Ibid.*, 5:1327-31.

With D. H. Baker, D. E. Becker, B. G. Harmon

Effect of dietary dilution on performance of finishing swine. *Ibid.*, 5:1332-35.

Influence of microbiota on metabolic fecal nitrogen in rats. *J. Nutr.*, 96, 3:391-96.

JOHNSON, DONALD E., Assistant Professor

Articles

With J. T. Reid, A. Bcnsadoun, L. S. Bull, J. H. Burton, others

Some peculiarities in the body composition of animals. In *Body composition of animals and man*, Pub. 1598, Natl. Acad. Sci., Wash., D. C., pp. 19-44.

With J. K. Matsushima, K. L. Knox

Utilization of flaked vs. cracked corn by steers with observations on starch modification. *J. Ani. Sci.*, 27, 5:1431-37.

KASTELIC, JOSEPH, Professor

Articles

An assessment of University of Illinois efforts in international programs. Program in Sierra Leone. In *The land-grant university and world food needs*. Proc., symposium in observance of Univ. Illinois centennial year, October 17-19, 1967. *Univ. Ill. Coll. Agr. Spec. Pub.* 13, pp. 138-47.

With Mary G. Bolt

Utilization by the rat of nitrogen, calcium, phosphorus, and magnesium in sterile concentrated milk stabilized with polyphosphates. *J. Dairy Sci.*, 51, 5:693-97.

LEVEILLE, GILBERT A., Associate Professor

Articles

With K. Chakrabarty

Total lipid and cholesterol levels in plasma and liver of rats fed diets supplemented with sulfaguandine or succinylsulfathiazole. *J. Nutr.*, 95, 1:88-94.

Absorption and utilization of glucose by meal-fed and nibbling rats. *Ibid.*, 96, 1:69-75.

Influence of periodicity of eating on the activity of various enzymes in adipose tissue, liver and muscle of the rat. *Ibid.*, 1:76-82.

In vivo and *in vitro* studies of gluconeogenesis in meal-fed and nibbling rats. *Ibid.*, 3:397-402.

Conversion of pyruvate to glyceride-glycerol in adipose tissue of obese and nonobese mice. *Arch. Biochem. Biophys.*, 125, 1:259-68.

With E. K. O'Hea

Lipogenesis in isolated adipose tissue of the domestic chick (*Gallus domesticus*). *Comp. Biochem. and Physiol.*, 26, 1:111-20.

Lipid metabolism in isolated adipose tissue of the domestic pig (*Sus domesticus*). *Ibid.*, 3:1081-89.

With E. K. O'Hea, K. Chakrabarty

In vivo lipogenesis in the domestic chicken. *Proc. Soc. Exp. Biol. and Med.*, 128, 2:398-401.

LEWIS, JOHN M., Associate Professor

Articles

With L. A. Arehart, H. A. Cate

Slotted floors are practical for lambs. *Ill. Res.*, 10, 2:10-11.

LOHMAN, TIMOTHY G., Research Associate

Articles

With W. J. Coffman, A. R. Twardock, B. C. Breidenstein, H. W. Norton

Factors affecting potassium-40 measurement in the whole body and body components. In *Body composition in animals and man*, Pub. 1598, Natl. Acad. Sci., Wash., D. C., pp. 291-316.

With B. C. Breidenstein, H. W. Norton

Comparison of the potassium-40 method with other methods of determining lean muscle mass in steers. *Ibid.*, pp. 393-412.

With H. W. Norton

Distribution of potassium in steers by ⁴⁰K measurement. *J. Ani. Sci.*, 27, 5:1266-72.

MISTRY, SORAB P., Professor

Articles

With K. Dakshinamurti, V. V. Modi

Some aspects of carbohydrate metabolism in biotin-deficient rats. *Proc. Soc. Exp. Biol. and Med.*, 127, 2:396-400.

With M. S. Patel

Effect of biotin deficiency on food intake and body and organ weights of male albino rats. *Growth*, 32, 3:175-87.

Effect of sorbitol, fructose, succinate, aspartate, glutamate and fat on growth and survival time of biotin-deficient rats. *J. Nutr.*, 96, 3:409-14.

NALBANDOV, ANDREW V., Professor

Articles

Comparative morphology and anatomy of the oviduct. In *The mammalian oviduct*, ed. by Hafez and Blandau, Univ. Chicago Press, pp. 47-55.

With B. Cook

Reproduction. In *Annual review of physiology*, ed. by Victor E. Hall, Annual Reviews, Palo Alto, Calif., pp. 245-78.

The effect of some pituitary hormones on progesterone synthesis *in vitro* by the luteinized ovary of the common opossum (*Didelphis marsupialis virginiana*). *J. Reprod. Fert.*, 15, 2:267-75.

With P. L. Keyes

Endocrine function of the ovarian interstitial gland of rabbits. *Endocrinology*, 82, 4:799-804.

A mechanism for LH-induced regression of CL in rabbits. *J. Reprod. Fert.*, 17, 1:183-85.

With G. Ferrando

Relative importance of histamine and estrogen on implantation in rats. *Endocrinology*, 83, 5:933-37.

With G. L. Jackson, K. R. Stevens

Gonadotrophic activity of stalk median eminence extracts in hypophysectomized rats. *Ibid.*, 2:225-33.

Activity of crude extracts of rat hypothalamus in hypophysectomized assay rats. *Ibid.*, 2:234-38.

With C. C. Kaltenbach, J. W. Graber, G. D. Niswender

Effect of hypophysectomy on the formation and maintenance of corpora lutea in the ewe. *Ibid.*, 82, 4:753-59.

Luteotropic properties of some pituitary hormones in nonpregnant or pregnant hypophysectomized ewes. *Ibid.*, 4:818-24.

With B. Cook, G. D. Niswender, N. S. Sutterlin, H. W. Norton

The influence of some steroids, including estrogens, on progesterone synthesis *in vitro* by porcine corpora lutea. *Steroids*, 11, 3:321-36.

NORTON, HORACE W., Professor

Articles

Opportunities and pitfalls in the mathematics of body composition. In *Body composition in animals and man*, Pub. 1598, Natl. Acad. Sci., Wash., D. C., pp. 137-47.

With T. G. Lohman, W. J. Coffman, A. R. Twardock, B. C. Breidenstein

Factors affecting potassium-40 measurement in the whole body and body components. *Ibid.*, pp. 291-316.

With B. C. Breidenstein, T. G. Lohman
Comparison of the potassium-40 method with other methods of determining lean muscle mass in steers. *Ibid.*, pp. 393-412.

With T. G. Lohman
Distribution of potassium in steers by ⁴⁰K measurement. *J. Ani. Sci.*, 27, 5:1266-72.

With R. D. Baker, P. J. Dziuk
Effect of volume of semen, number of sperm and drugs on transport of sperm in artificially inseminated gilts. *Ibid.*, 1:88-93.

With B. Cook, G. D. Niswender, N. S. Sutterlin, A. V. Nalbandov
The influence of some steroids, including estrogens, on progesterone synthesis *in vitro* by porcine corpora lutea. *Steroids*, 11, 3:321-36.

With B. G. Harmon, D. E. Becker, A. H. Jensen
Effect of Na₂EDTA in diets of different iron levels on utilization of calcium, phosphorus and iron by rats. *J. Ani. Sci.*, 27, 2: 418-23.

With J. L. Cox, B. G. Harmon, D. E. Becker, A. H. Jensen
Influence of ambient temperature stress on response of pregnant rats to dietary protein levels. *Ibid.*, 3:650-55.

Response of pregnant rats to sources of dietary nitrogen and cold exposure. *Ibid.*, 6:1567-71.

With J. R. Mitchell, Jr., D. E. Becker, B. G. Harmon, A. H. Jensen
Some amino acid needs of the young pig fed a semisynthetic diet. *Ibid.*, 5:1322-26.

Determination of amino acid needs of the young pig by nitrogen balance and plasma-free amino acids. *Ibid.*, 5:1327-31.

RASMUSEN, BENJAMIN A., Professor

Articles

With K. L. Hagen, K. K. Mittal
Further investigations on linkage between the loci for heme-binding globulins and K blood groups in pigs. *Vox Sanguinis*, 15, 1:147-51.

SCHELLING, GERALD T., Research Associate

Articles

With E. E. Hatfield
Effect of abomasally infused nitrogen sources on nitrogen retention of growing lambs. *J. Nutr.*, 96, 3:319-26.

SCOTT, HAROLD M., Professor

Articles

With W. F. Dean
Ability of arginine to reverse the growth depression induced by supplementing a crystalline amino acid diet with excess lysine. *Poultry Sci.*, 47, 1:341-42.

With M. Kelly
Plasma lysine titers in the chick in relation to source of lysine and mode of administration. *J. Nutr.*, 94, 3:326-30.

Autoclaving time in relation to the nutritional quality of dried egg white. *Poultry Sci.*, 47, 3:850-52.

With D. H. Baker, M. Sugahara
The glycine-serine interrelationship in chick nutrition. *Ibid.*, 4:1376-77.

With R. L. Huston
Effect of varying the composition of a crystalline amino acid mixture on weight gain and pattern of free amino acids in chick tissue. *Fed. Proc.*, 27, 5:1204-09.

SUGAHARA, MICHIIHIRO, Research Associate

Articles

With D. H. Baker, H. M. Scott
The glycine-serine interrelationship in chick nutrition. *Poultry Sci.*, 47, 4:1376-77.

DOCTORAL DISSERTATIONS

Patel, Mulchand S. (S. P. Mistry, Adviser), Carbohydrate metabolism in biotin-deficient and control rats.

Salem, Mohamed H. (A. V. Nalbandov, Adviser), Adrenocorticotrophic hormone activity and its releasing factor(s) in chickens.

Schelling, Gerald T. (E. E. Hatfield, Adviser), Amino acid nutrition in the ruminant.

Vatthauer, Richard J. (U. S. Garrigus, Adviser), Design and characterization of a continuous *in vitro* culture system.

ANTHROPOLOGY

BAREIS, CHARLES J., Instructor

Articles

With W. M. Gardner
Three long-nosed god masks from western Illinois. *Amer. Antiq.*, 33, 4:495-98.

BUTTERWORTH, DOUGLAS S., Instructor

Articles

Diferencias de Riqueza en una comunidad mixteca. *Amer. Indigena*, 28, 1:3-21.

LATHRAP, DONALD W., Professor

Articles

Aboriginal occupation and changes in river channel on the Central Ucayali, Peru. *Amer. Antiq.*, 33, 1:62-79.

The "hunting" economies of the Tropical Forest Zone of South America: an attempt at historical perspective. In *Man the hunter*, ed. by Richard B. Lee and Irven DeVore, Aldine Pub. Co., Chicago, pp. 23-29.

Reviews

Ancient Peruvian ceramics: the Nathan Cummings collection, by Alan R. Sawyer. *Archaeology*, 22, 6:224-25.

Pattern and process in the early intermediate period pottery of the Central Coast of Peru, by Thomas C. Patterson. *Ibid.*, pp. 223-24.

LEHMAN, FREDERIC K., Professor

Reviews

Les paysans Arakanais du Pakistan Oriental, by Lucien Bernot. *Amer. Anthropol.*, 70, 5:992-94.

LEWIS, OSCAR, Professor

Books

A study of slum culture: backgrounds for La Vida. Random House, N.Y., 240 pp.

Articles

With others
Ghetto education. (A dialogue with participants Robert F. Kennedy, Kenneth B. Clark, Oscar Lewis, Neil V. Sullivan, Robert M. Hutchins, Harry S. Ashmore.) *Center Mag.*, 1, 7:46-60.
Love in el barrio, *New York Mag.*, 1, 36: 33-46.

PLATH, DAVID W., Associate Professor

Articles

A case of ostracism — and its unusual after-

math, trans. by Yoshie Sugihara. *Trans-action*, Jan./Feb. pp. 31-36.

Reviews

Aspects of social change in modern Japan, ed. by R. P. Dore. *British J. Soc.*, 19, 3:350-51.

Nichū: a Japanese school, by John Singleton. *Amer. Anthropol.*, 70, 3:652-53.

ROSEN, LAWRENCE, Assistant Professor; Fellow, Center for Advanced Study

Articles

A Moroccan Jewish community during the Middle Eastern crisis. *Amer. Scholar*, 37, 3:435-51.

North African Jewish studies: review article. *Judaism*, 17, 4:422-29.

SHIMKIN, DEMITRI B.

Articles

The calculus of survival. *Med. Opinion and Rev.*, 4, 10:47-57.

With Edith M. Shimkin

Comments on translation by Edith M. Shimkin of radiocarbon dates from Soviet laboratories, 1 January 1962 — 1 January 1966. Commission for the study of the quaternary period, Academy of Sciences, USSR. *Radiocarbon*, 10, 2:417-67.

Bulletins and Technical Reports

National growth and its distribution. U.S. Govt. Printing Ofc., Wash., D.C., 89 pp.

STEWART, JULIAN, Research Professor; Member, Center for Advanced Study

Articles

Cultural ecology. *Intnl. Encyc. Soc. Sci.*, 4:337-44.

Causal factors and processes in the evolution of pre-farming societies. In *Man the hunter*, ed. by R. Lee and I. DeVore, Aldine Pub. Co., Chicago, pp. 321-34.

Comments on Leo A. Despres's "Anthropological theory, cultural pluralism, and the study of complex societies." *Cur. Anthropol.*, 9:21-22.

Scientific responsibility in modern life. *Science*, 159:147-48.

Reviews

The current status of anthropological research in the Great Basin: 1964, Desert Research Institute, Technical Report Series S-H, Social Science and Humanities Publication No. 1. *Amer. Antiq.*, 55:264-67.

ZUIDEMA, REINER T., Associate Professor

Articles

El Juego de los Ayllus y el Amaru. *J. Soc. Americanistas*, LVI, 1:41-51.

With U. Quispe M.

A visit to God; the account and interpretation of a religious experience in the Peruvian community of Choque-Huarcaya. *Bijdragen*, 124, 1:22-39.

DOCTORAL DISSERTATIONS

Allen, William L. (D. W. Lathrap, Adviser), A ceramic sequence from the Alto Pachitea, Peru: some implications for the development of tropical forest culture in South America.

Bernard, H. Russell (E. M. Bruner, Adviser), Kalymnos: economic and cultural change on a Greek sponge fishing island.

Crespi, Muriel K. (J. B. Casagrande, Adviser), The patrons and peons of Pesillo: a traditional hacienda system in highland Ecuador.

Nagata, Judith A. (J. H. Steward, Adviser), Continuity and change among the old order Amish of Illinois.

Whitecotton, Joseph W. (J. H. Steward, Adviser), The valley of Oaxaca at Spanish contact: an ethnohistorical study.

Young, Philip D. (J. B. Casagrande, Adviser), The Ngawbe: an analysis of the economy and social structure of the Western Guaymí of Panama.

ARCHITECTURE

CREESE, WALTER L., Professor

Articles

The Equitable revisited. *Architectural Forum*, 128:40-45.

Architectural history and the student architect. Société des Architectes Diplômés par le gouvernement, Paris, Bull. 167.

God may be waiting at the airport. *St. Louis Post Dispatch*, Education Sec. B, March 10, p. 5.

TANG, STEPHEN J. Y., Professor

Articles

With J. E. Ambrose

Buildings — general design considerations. In *Structural engineering handbook*, ed. by E. H. Gaylord, Jr. and C. N. Gaylord, McGraw-Hill Book Co., N.Y., 19:1-48.

WINKELHAKE, CLAUDE A., Professor

Articles

Environmental models. *JAE*, 2, 1:101-10.

Reviews

Frank Lloyd Wright: a study in architectural content, by Norris Kelly Smith. *Ibid.*, pp. 137-38.

The testament of stone: themes of idealism and indignation from the writings of Louis Sullivan, ed. by Maurice English. *Ibid.*, 2:137-38.

Louis Sullivan: an architect in American thought, by Sherman Paul. *Ibid.*

The new architecture and the Bauhaus, by Walter Gropius. *Ibid.*, 3:151-52.

ART

JOHNSON, WALTER M., Professor

Articles

Leisure hours: fact or fallacy. *Proc. Inst. for Child Care Workers*, Jane Addams Graduate School of Social Work, Div. Univ. Ext., Urbana, pp. 41-48.

Reviews

Islamic art and architecture, by Ernst Kuhnelt (trans. by Katherine Watson). *NAEA J.*, 21, 5:32.

MUNAKATA, KOYOHICO M., Assistant Professor

Articles

The process and meaning of the establishment of painting of "trees and rocks" in China. *Tetsugaku*, 53:159-79.

Reviews

The Chinese theory of art, by Yutang Lin. *J. Asian Studies*, 27, 2:385.

Oriental aesthetics, by Thomas Munro. *Aesthetic Educ.*, 2, 1:134-35.

WELLER, ALLEN S., Professor

Books

The joys and sorrows of recent American art.
Univ. Ill. Press, Urbana, 185 pp.

Articles

Opera in Illinois. *Ill. History*, 22, 2:27-29.

Bulletins and Technical Reports

100 years of campus architecture at the University of Illinois. Univ. Ill. Press, Urbana, 64 pp.

ASTRONOMY

CAHN, JULIUS H., Associate Professor

Articles

The space distribution of planetary nebulae. In *Planetary nebulae*, ed. by Osterbrock and O'Dell, I.A.U. Symp. No. 34, 1968, pp. 44-50.

DICKEL, HELENE R., Research Associate

Articles

Values of interstellar absorption for M17. In *Interstellar ionized hydrogen*, ed. by Terzian, W. A. Benjamin, N.Y., pp. 327-28.

Absorption in the direction of M17. *Astrophys. J.*, 152, 2:651-55.

DICKEL, JOHN R., Associate Professor

Articles

The extent of the radio emission from M31. *Astrophys. Letters*, 1, 4:133-38.

Radio emission from the nebula Sharpless 261 and the surrounding galactic region. *Astron. J.*, 73, 5:310-12.

With W. W. Warnock, W. J. Medd

Lack of phase variation of Venus. *Nature*, 220, 5173:1183-85.

KALER, JAMES B., Associate Professor

Articles

Electron temperatures of gaseous nebulae from Balmer decrements. *Astrophys. Letters*, 1, 6:227-30.

Optical measurements of electron temperatures in H II regions. In *Interstellar ionized hydrogen*, ed. by Terzian, W. A. Benjamin, N.Y., pp. 459-75.

With L. H. Aller, S. J. Czyzak

Spectrophotometric studies of gaseous nebulae, VIII. The irregular planetary nebula NGC 2440. *Astrophys. J.*, 151, 1:187-96.

Spectrophotometric studies of gaseous nebulae, X. The small high excitation planetary IC 2165. *Ibid.*, 153, 1:43-48.

Spectrophotometric studies of gaseous nebulae, XI. The planetary NGC 6543. *Ibid.*, 154, 2:543-55.

McVITTIE, GEORGE C., Professor and
Head of Department

Reviews

The story of Jodrell Bank, by Sir Bernard Lovell. *Science*, 162:886.

OLSON, EDWARD C., Associate Professor

Articles

Rotational velocities in early-type binaries. *Pub.A.S.P.*, 80, 473:185-91.

Spectral classification and surface gravities for some bright eclipsing binaries. *Astrophys. J.*, 153, 1:187-94.

SWENSON, G. W., JR., Research Professor of
Astronomy; Professor of Electrical Engineering

Articles

With N. C. Mathur

The interferometer in radio astronomy. *Proc. I.E.E.E.*, 56, 12:2114-30.

Bulletins and Technical Reports

With W. L. Everitt, J. M. Richardson, others

Reports on selected topics in telecommunications. Natl. Acad. Eng., Wash., D.C., 145 pp.

Reviews

Radio telescopes, ed. by D. V. Skobel'syn. *Physics Today*, 21, 3:90-91.

WENDKER, HEINRICH, Research Associate

Articles

The Cygnus X Region III. Observations of the NGC 7000 area at decimeter wavelengths. *Zeitschrift für Astrophysik*, 68: 368-79.

Galactic radio emission at 610.5 MHz. II. The region between galactic longitudes 50° and 64°. *Astron. J.*, 73, 7:644-48.

With K. S. Yang

Galactic radio emission at 610.5 MHz. I. The region between galactic longitudes 47° and 56°. *Ibid.*, 2:61-64.

WYATT, S. P., JR., Professor

Articles

A note on the gravitational focusing of interplanetary grains. *Astron. J.*, 73 Suppl.: S40-S41.

Reviews

The evolution of stars, by Thornton Page and Lou Williams Page. *Sky and Telescope*, 36:40-42.

YANG, K.S., Research Engineer

Articles

With H. Wendker

Galactic radio emission at 610.5 MHz. I. The region between galactic longitudes 47° and 56°. *Astron. J.*, 73, 2:61-64.

YOSS, KENNETH M., Professor

Articles

With T. Lutz

The effect of metal abundance on K-line absolute magnitudes. *Pub.A.S.P.*, 80: 717-38.

DOCTORAL DISSERTATIONS

Erkes, Joseph W. (S. P. Wyatt, Jr., Adviser),
The evolution of supernova remnants.

Lee, Paul D. (G. C. McVittie, Adviser),
Level populations of hydrogen and helium in gaseous nebulae.

Standeford, Leo V. (S. P. Wyatt, Jr., Adviser),
The dynamics of charged interplanetary grains.

AVIATION

CLARKE, ROBERT G., Instructor

Articles

Ground-bound flying. *AOPA Pilot*, 11/4, April, pp. 48-51.

BIOLOGY

DOCTORAL DISSERTATIONS

Calarco, Patricia G. (D. L. Nanney, Adviser),
Cytological and ultrastructural observations
of t^{12}/t^{12} and normal preimplantation stages
of the mouse, *Mus musculus*.

Mills, Donald R. (S. Spiegelman, Adviser),
Darwinian selection experiment with Q β
viral RNA.

Seligman, Isaac M. (S. Friedman, Adviser),
Tyrosine metabolism and its hormonal con-
trol after eclosion in the adult fleshfly *Sar-
cophaga bullata*. Parker (Diptera: sarcophaga-
idae).

BOTANY

BAZZAZ, FAKHRI A., Assistant Professor

Articles

Succession on abandoned fields in the Shaw-
nee Hills, southern Illinois. *Ecology*, 49:
924-36.

With D. J. Paolillo

Photosynthesis and respiration of *Poly-
trichum* and *Funaria*. *The Bryologist*, 71:
335-43.

BLACK, LINDSAY M., Professor

Articles

With R. Gamez

Particle counts of wound tumor virus during
its peak concentration in leafhoppers.
Virology, 34:444-51.

BOYER, JOHN S., Assistant Professor

Articles

Relationship of water potential to growth of
leaves. *Plant Physiol.*, 43, 7:1056-62.

CAROTHERS, ZANE B., Associate Professor

Articles

With G. L. Kreitner

Studies of spermatogenesis in the Hepaticae.
II. Blepharoplast structure in the spermat-
oid of *Marchantia*. *J. Cell Biology*, 36,
3:603-16.

CHIU, REN-JONG, Research Associate

Articles

With R. Gamez

The minimum concentration of a plant virus
needed for infection of monolayers of
vector cells. *Virology*, 34:356-57.

DAS, MRINMOYEE, Research Associate

Articles

With E. Rabinowitch, L. Szalay

Red drop in the quantum yield of fluores-
cence of sonicated algae. *Biophys. J.*, 8,
10:1131-37.

GOVINDJEE, Associate Professor

Articles

With L. Szalay, M. Török

Effect of secondary fluorescence on the emis-
sion spectrum and quantum yield of fluo-
rescence in chlorophyll *a* solutions and algal
suspensions. *Acta Biochim. et Biophys.*
Acad. Sci. Hung., 2, 4:425-32.

With E. Rabinowitch

Maximum quantum yield and action spectra
of photosynthesis and fluorescence in
Chlorella. *Biochim. Biophys. Acta*, 162,
4:539-44.

With G. Papageorgiou

Light induced changes in the fluorescence
yield of chlorophyll *a* in vivo. I. *Anacystis*
nidulans. *Biophys. J.*, 8, 11:1299-1315.

Light induced changes in the fluorescence
yield of chlorophyll *a* in vivo. II. *Chlorella*
pyrenoidosa. *Ibid.*, 8, 11:1316-28.

HANSON, JOHN B., Professor

Articles

With R. J. Miller, S. W. Dumford

Uncoupling of respiration-linked contraction
in corn mitochondria. *Plant Physiol.*, 43:
811-14.

With J. Cardenas, F. W. Slife, H. Butler

Physiological changes accompanying the death
of cocklebur plants treated with 2,4-D.
Weed Sci., 16:96-100.

With R. Baxter

The effect of 2,4-D upon the metabolism and
composition of soybean hypocotyl mito-
chondria. *Planta*, 82:246-60.

With T. J. O'Brien, B. C. Jarvis, J. H. Cherry

Enhancement by 2,4-dichlorophenoxyacetic
acid of chromatin RNA polymerase in soy-
bean hypocotyl tissue. *Biochim. Biophys.*
Acta, 169:34-43.

With R. H. Wilson, H. H. Mollenhauer

Ribosome particles in corn mitochondria.
Plant Physiol., 43:1874-77.

Reviews

With F. W. Slife

Role of RNA metabolism in the action of
auxin-herbicides. *Res. Rev.*, p. 25.

HEVESI, JANOS, Research Associate

Articles

With G. S. Singhal, E. I. Rabinowitch

Excitation energy migration between chloro-
phyll and β -carotene. *J. Phys. Chem.*, 49:
5208.

HOFFMAN, LARRY R., Associate Professor

Articles

Observations on the fine structure of *Oedo-
gonium*. IV. The mature pyrenoid of *Oe.
cardiacum*. *Trans. Amer. Microsc. Soc.*,
82:178-85.

Observations on the fine structure of *Oedo-
gonium*. V. Evidence for the *de novo*
formation of pyrenoids in zoospores of *Oe.
cardiacum*. *J. Phycol.*, 4:212-18.

With W. D. Beaney

Two new species of *Oedocladium*. *Ibid.*, pp.
221-29.

JONES, G. NEVILLE, Professor

Books

Taxonomy of American species of Linden
(Tilia). Illinois Biological Monographs 39,
Univ. Ill. Press, Urbana, 156 pp.

MacLEOD, RODERICK, Assistant Professor

Articles

An interpretation of the observed poly-
morphism of potato yellow dwarf virus.
Virology, 34:771-77.

The preparation of plant viruses for use as
antigens. In *Methods in immunology and*
immunochemistry, 1, ed. by Williams and
Chase, Academic Press, N.Y., pp. 102-15.

PAOLILLO, DOMINICK J., Associate Professor

Articles

With J. A. Reighard

The plastids of virescent corn mutants. *Trans. Amer. Microsc. Soc.*, 87, 1:54-59.

With G. L. Kreitner, J. A. Reighard

Spermatogenesis in *Polytrichum juniperinum*. I. The origin of the apical body and the elongation of the nucleus. *Planta*, 78: 226-47.

Spermatogenesis in *Polytrichum juniperinum*. II. The mature sperm. *Ibid.*, 248-61.

With F. A. Bazzaz

Photosynthesis and respiration of *Polytrichum* and *Funaria*. *The Bryologist*, 71:335-43.

PAPAGEORGIU, GEORGE, Research Associate

Articles

With Govindjee

Light induced changes in the fluorescence yield of chlorophyll *a* in vivo. I. *Anacystis nidulans*. *Biophys. J.*, 8, 11:1299-1315.

Light induced changes in the fluorescence yield of chlorophyll *a* in vivo. II. *Chlorella pyrenoidosa*. *Ibid.*, 8, 11:1316-28.

PAYNE, WILLARD W., Assistant Professor

Articles

The use of cellulose acetate film for the production of epidermal casts. *Ward's Bull.*, 7:6-7.

With H. E. Miller, T. J. Mabry, B. L. Turner

Intraspecific variation of sesquiterpene lactones in *Ambrosia psilostachya* (Compositae). *Amer. J. Bot.*, 55:316-24.

With J. L. Seago

The open conduplicate carpel of *Akebia quinata* (Berberidales: Lardizabalaceae). *Ibid.*, pp. 575-81.

With P. H. Raven, D. W. Kyhos,

D. E. Breedlove
Polyploidy in *Ambrosia dumosa* (Compositae: Ambrosiaceae). *Brittonia*, 20:205-11.

PHILLIPS, TOM L., Associate Professor

Articles

With H. N. Andrews

Rhacophyton from the Upper Devonian of West Virginia. *J. Linn. Soc. (Bot.)*, 61, 384:37-64.

With B. M. Stidd

Basal stem anatomy of *Psaronius*. *Amer. J. Bot.*, 55, 7:834-40.

With H. N. Andrews

Biscalitheca (Coenopteridales) from the upper Pennsylvanian of Illinois. *Palaeontology*, 11:104-15.

RABINOWITCH, EUGENE I., Professor Emeritus

Articles

With M. Das, L. Szalay

Red drop in the quantum yield of fluorescence of sonicated algae. *Biophys. J.*, 8, 10:1131-37.

With G. S. Singhal, W. P. Williams

Fluorescence and absorption studies on chlorophyll *a* in vitro at 77°K. *J. Phys. Chem.*, 72:3941-51.

With G. S. Singhal, J. Hevesi

Excitation energy migration between chlorophyll and β -carotene. *Ibid.*, 49:5208.

REICHMANN, MANFRED E., Professor

Articles

With E. Wimmer

A new method for the determination of 3'-nucleotide sequences of RNA and its application in sequence studies of Satellite Tobacco Necrosis Virus-RNA. *Fed. Proc.*, 27:806.

Pyrophosphate in the 5' terminal position of a viral ribonucleic acid. *Science*, 160: 1452-54.

With J. M. Clark, Jr.

Current status of in vitro synthesis of plant viruses. *Ann. Rev. Phytopath.*, 6:295-316.

With E. Wimmer, A. Y. Chang, J. M. Clark, Jr.

Sequence studies of Satellite Tobacco Necrosis Virus RNA. Isolation and characterization of a 5'-terminal trinucleotide. *J. Mol. Biol.*, 38:59-73.

SINGHAL, GAURI S., Research Associate

Articles

With E. Rabinowitch, W. P. Williams

Fluorescence and absorption studies on chlorophyll *a* in vitro at 77°K. *J. Phys. Chem.*, 72:3941-51.

With J. Hevesi, E. I. Rabinowitch

Excitation energy migration between chlorophyll and β -carotene. *Ibid.*, 49:5208.

STEFFENSEN, DALE M., Professor

Articles

Mutagenic studies with calcium-45 and strontium-89 in maize and *Lilium*. *Mutation Res.*, 5:237-42.

A reconstruction of cell development in the shoot apex of maize. *Amer. J. Bot.*, 55: 354-69.

With R. H. Gray, R. Herzog

Gel electrophoresis of labeled nuclear proteins from bovine leukocytes. *Biochim. Biophys. Acta*, 157:344-51.

With R. H. Gray

A high-resolution method for slicing and counting radioactivity in polyacrylamide gels. *Anal. Biochem.*, 24:44-53.

With R. Herzog

The pattern of protein synthesis in late S and G₂ of bovine sex chromosomes. *Cytogenetics*, 7:471-83.

SZALAY, LASZLO, Research Associate

Articles

With M. Das, E. I. Rabinowitch

Red drop in the quantum yield of fluorescence of sonicated algae. *Biophys. J.*, 8, 10:1131-37.

TUVESON, ROBERT W., Associate Professor

Articles

With W. B. Lanier, J. E. Lennox

A radiation-sensitive mutant of *Aspergillus nidulans*. *Mutation Res.*, 5:23-31.

With L. Chang, J. E. Lennox

Induced mutation in UV-sensitive mutants of *Aspergillus nidulans* and *Neurospora crassa*. *Ibid.*, pp. 217-24.

With J. E. Lennox

A UV-sensitive mutant of *Aspergillus rugulosus* unrelated to intergenic crossing over. *Can. J. Genet. Cytol.*, 10:50-53.

With L. Chang, M. H. Munroe

Non-nuclear inheritance of UV sensitivity in *Neurospora crassa*. *Ibid.*, pp. 920-27.

WIMMER, ECKARD, Research Associate

Articles

With I. H. Maxwell, G. M. Tener

A simple method for isolating highly purified yeast phenylalanine transfer ribonucleic acid. *Biochemistry*, 7:2623.The isolation of yeast tyrosine and tryptophan transfer ribonucleic acids. *Ibid.*, p. 2629.

With M. E. Reichmann

A new method for the determination of 3'-nucleotide sequences of RNA and its application in sequence studies of Satellite Tobacco Necrosis Virus-RNA. *Fed. Proc.*, 27:806.Pyrophosphate in the 5' terminal position of a viral ribonucleic acid. *Science*, 160: 1452-54.

With M. E. Reichmann, A. Y. Chang,

J. M. Clark, Jr.

Sequence studies of Satellite Tobacco Necrosis Virus RNA. Isolation and characterization of 5'-terminal trinucleotide. *J. Mol. Biol.*, 38:59-73.

DOCTORAL DISSERTATIONS

Arteman, Robert L. (D. P. Rogers, Adviser), The morphology and cytology of *Elaphomyces asperulus* Vitt.

Berkson, Burton M. (D. P. Rogers, Adviser), Cytomorphological studies of three species of Uredinales.

Courtin, Gerard M. (L. C. Bliss, Adviser), Evapotranspiration and energy budgets of two alpine microenvironments, Mt. Washington, N.H.

Falk, Richard H. (D. J. Paolillo, Jr., Adviser), The fraction I protein of Chinese cabbage.

Frankenberg, Julian M. (W. W. Hay, Adviser), Structure and development of the underground parts of arborescent Lycopsidea from the Pennsylvanian of North America.

Jagels, Richard H. (D. J. Paolillo, Jr., Adviser), The morphology and physiology of mature plastids of *Selaginella* under different light and temperature regimes.

Kuramoto, Richard T. (L. C. Bliss, Adviser), Ecology of subalpine meadows in the Olympic Mountains, Washington.

Morgan, Michael D. (L. C. Bliss, Adviser), Life history and energy relationships of *Hydrophyllum appendiculatum*.

Redmann, Robert E. (L. C. Bliss, Adviser), Productivity and distribution of grassland plant communities in western North Dakota.

Stidd, Benton M. (J. F. Nance, T. L. Phillips, Advisers), Morphology and anatomy of the frond of *Psaronius*.

BUSINESS

DOCTORAL DISSERTATIONS

Abo-Baker, Abd-Allah A. (R. Ferber, Adviser), Determinants of consumer demand for transportation: a study in statistical methodology.

Carley, Cameron. (P. M. Van Arsdell, Adviser), An analysis of profitability in the meat packing industry.

Jain, Hem C. (M. Rothbaum, Adviser), Industrial relations in the pulp and paper industry in the Atlantic region.

Ross, Herbert L. (D. P. Flanders, Adviser), An analysis of the purchase patterns, shopping behavior, and household characteristics of the charge customers and cash customers of a specific department store.

Stanford, Melvin J. (W. E. Thomas, Adviser), An information system model for the academic department.

Swanda, John R., Jr. (N. M. Bedford, Adviser), Investment in human capital—a production planning consideration.

BUSINESS ADMINISTRATION

BASSIE, V LEWIS, Professor

See Economic and Business Research.

BEDFORD, NORTON M., Professor

See Accountancy.

BLACK, ROBERT L., Associate Professor

Books

With R. N. Corley

The legal environment of business (2nd ed.). McGraw-Hill Book Co., N.Y., 762 pp.

COHEN, JOEL B., Assistant Professor

Articles

The rule of personality in consumer decisions. In *Perspectives in consumer behavior*, ed. by Kassarian and Robertson, Scott, Foresman, and Co., Glenview, Ill., pp. 220-34.Toward an interpersonal theory of consumer behavior. *Calif. Mgmt. Rev.*, 11:73-80.Self concept constraints upon dissonance reduction. *J. Educ. Res.*, 62:151-52.

CORLEY, ROBERT N., Professor

Books

With R. L. Black

The legal environment of business (2nd ed.). McGraw-Hill Book Co., N.Y., 762 pp.

GARDNER, DAVID M., Assistant Professor

Articles

The package, legislation and the shopper. *Bus. Horizons*, 11, 5:53-58.

GIESELMAN, ROBERT D., Instructor

Articles

Applying survey methods to employee communication. *J. Bus. Comm.*, 6, 1 (Fall): 13-24.A moratorium on publishing. *Ibid.*, 5, 4 (Summer):1-3.

JONES, FRED M., Professor

Reviews

Readings in the history of American marketing: settlement to civil war, by Stanley J. Shapiro and Alton F. Doody. *J. Marketing*, 32, 3:113.

MILLICAN, RICHARD D., Associate Professor

Articles

An income-expenditure study of Illinois families. *Bus. Perspect.*, 4, 4:30-33.

Selling by mail order. U.S. Dept. Commerce, Small Bus. Admin., Wash., D.C., 12 pp.

RAGO, LOUIS J., Associate Professor

Books

Manual for casebook in production management. International Textbook Co., Scranton, Pa., 246 pp.

Articles

The purchasing function and PERT network analysis. *J. Purchasing*, 4, 2:69-82.

Sequencing, modeling and Gantt charting repetitive manufacturing. *Naval Res. Logistics Qt.*, 15, 2:301-9.

ROWLAND, KENDRITH M., Assistant Professor

Articles

Forecasting: current practices. *Personnel Admin.*, 13, 1:28-31.

The certainty/uncertainty issue in manpower forecasting. *Mgmt. Personnel Qt.*, 6, 4: 21-25.

With W. E. Scott, Jr.

Psychological attributes of effective leadership in a formal organization. *Personnel Psychol.*, 21, 3:365-77.

SCHOENFELD, HANNS-MARTIN W., Professor

See Accountancy.

SIMON, JULIAN L., Associate Professor

Articles

Doctors, smoking, and reference groups. *Public Opin. Qt.*, 31, Winter, pp. 646-47. 1967-1968.

The health economics of cigarette consumption. *J. Hum. Resources*, 3, Winter, pp. 111-17.

A huge marketing research job—birth control. *J. Marketing Res.*, 5, February, pp. 21-27.

The effect of economic status and traditional culture upon economic behavior. *Amer. J. Agr. Econ.*, 50, May, pp. 448-51.

An almost-practical solution to airline overbooking. *J. Transport Econ. and Policy*, 2, May, pp. 201-2.

Investment prospects in economics—1967. *Economic J.*, 78, June, pp. 476-79.

The role of bonuses and persuasive propaganda in the reduction of birth rates. *Econ. Devel. and Cultural Change*, 16, 3:404-11.

What does the normal curve "mean"? *J. Educ. Research*, 61, July-August, pp. 435-38.

The effect of income on suicide. *Amer. J. Sociology*, 74, November, pp. 302-3.

Some "marketing correct" recommendations for family planning campaigns. *Demography*, 5, 1:504-7.

With Rita Simon

Class, status, and savings by Negroes. *Amer. Sociologist*, August, pp. 218-19.

With H. C. Lyon

The price elasticity of demand for cigarettes in the United States. *Amer. J. Agricultural Econ.*, 50, November, pp. 888-95.

SUDMAN, SEYMOUR, Associate Professor
See Survey Research Laboratory.

DOCTORAL DISSERTATIONS

Forsyth, John D. (H. P. Holzer, Adviser), Capital budgeting and the decision making process in a decentralized business organization.

Monroe, Kent B. (D. M. Slate, Adviser), A method for determining product line prices with end-price constraints.

BUSINESS MANAGEMENT, BUREAU OF

COCHRUN, IRWIN, Associate Professor of Business Management, Director of Bureau

Articles

Policy—the backbone of business. *Inte-*

grated Mgt., Bangalore, India, Issue 12, April, pp. 50-56. 1967.

The other side of the coin. *J. Small Bus. Mgt.*, 6, 3:12-14.

Using the tools of effective administration. *Traffic Eng.*, 38, 6:28-31; *Building Official*, 2, 9.

SIMS, J. TAYLOR, Assistant

Articles

Computerized formatting in market research. *J. Computer Operation*, 2, 2:23-26.

CENTER FOR ADVANCED STUDY

CROSS, ANTHONY G., Fellow, Center for Advanced Study

Articles

Problems of form and literary influence in the poetry of Karamzin. *Slavic Rev.*, 27, 1:39-48.

Reviews

N. M. Karamzin: a Russian sentimentalist, by Henry M. Nebel, Jr. *Slavonic Rev.*, 46, 106:226-28.

Derzhavin. A political biography, by Jesse Clardy. *Ibid.*, 107:498-500.

DELIGIORGIS, STAVROS G., Fellow, Center for Advanced Study

Reviews

The ancient romances: a literary-historical account of their origins, by B. E. Perry. *Comparative Lit.*, 20, 3:273-75.

Collected poems: 1924-1955, by George Seferis, trans. by E. Keeley and P. Sherrard. *Philological Qt.*, 47, 2:283-84.

LEIBOWITZ, HERBERT A., Fellow, Center for Advanced Study

Books

Hart Crane: an introduction to the poetry. Columbia Univ. Press, N.Y., 308 pp.

Articles

Questions of reality: a poetry chronicle. *Hudson Rev.*, 21, 3:553-63.

RUSCH, CHARLES W., Fellow, Center for Advanced Study

Articles

With M. A. Milne

The death of the Beaux Arts: The Cal-Oregon experiment in design education. *A.I.A. J.*, 47, 3:78-83.

CERAMIC ENGINEERING

ALLEN, ALFRED W., Professor of Ceramic Engineering and of Nuclear Engineering

Articles

Optical microscopy in ceramic engineering. In *Ceramic microstructures, their analysis and significance*, ed. by Fulrath and Pask, John Wiley and Sons, N.Y., pp. 121-59.

What is the ceramic educational council? *B. Am. Ceram. Soc.*, 47, 7:671-72.

What does the ceramic educational council do that is worthwhile? *Ibid.*, 9:860-61.

How does the ceramic educational council function? what is the role of students in its deliberations? *Ibid.*, 10:898-99.

Industry-education relationships in ceramic engineering—a call for survival. *Ibid.*, 12:1178-79.

With R. Forlano, R. Beals

Elasticity and anelasticity of uranium oxides at room temperature. *Ibid.*, 51, 4:192-95.

BERGERON, CLIFTON G., Professor

Articles

The electrical properties of vitreous coatings (A. I. Andrews Memorial Lecture). *Proc. Porc. En. Inst.*, 30, pp. 1-15.

With J. A. Laird

Interface temperature of a crystallizing melt. *J. Am. Ceram. Soc.*, 51, 1:60-61.

With J. M. Ricker, R. J. Eagan

Enthalpy of fusion of $PbO \cdot 2B_2O_3$. *Ibid.*, 7:410.

Reviews

Coatings of high-temperature materials, by H. Hausner. *Ibid.*, p. 225.

NELSON, JAMES A., Professor

Reviews

Properties of ceramic raw materials, by W. Ryan. *Ceramic Abstracts*, 51, 11:358.

DOCTORAL DISSERTATIONS

Bolton, Russell L. (R. B. Cook, Adviser), Temperature compensating ceramic capacitors in the system baria-rare earth oxide-titania.

Martin, Lawrence L. (A. L. Friedberg, Adviser), Electrophoretic behavior of alumina suspensions.

Shalek, Peter D. (A. W. Allen, Adviser), Phase relations in the system uranium-sulfur-oxygen.

Smid, Robert J. (T. A. Willmore, A. L. Friedberg, Advisers), Variations in refractory properties related to the fundamental structure of magnesium aluminate spinel.

Sturgis, David H. (J. A. Nelson, A. L. Friedberg, Advisers), Effects of adsorbed gases on the compaction and initial sintering of an active alumina powder.

Weirauch, Donald F. (V. J. Tennery, Adviser), A study of phase transitions in the lead zirconate—lead titanate system.

CHEMISTRY AND CHEMICAL ENGINEERING

ANDERSON, JAY M., Visiting Lecturer

Articles

With J. B. Kim

NMR Species of 1, 5-dimethylnaphthalene and its bromo derivatives. *Spectrochim. Acta*, 24A:792-95.

APPLEQUIST, DOUGLAS E., Professor

Articles

With M. A. Lintner, R. Searle

Photocyclizations of compounds containing two anthracene rings. *J. Org. Chem.*, 33: 254-59.

With W. A. Bennett

4-Spiro[2.n]alkyl cations. *Tetrahedron Letters*, 3005-7.

With E. G. Alley

Synthesis and photoisomerization of the stereoisomeric 1,4-dichlorospiropentanes. *J. Org. Chem.*, 33:2741-43.

BAILAR, JOHN C., JR., Professor

Articles

With B. Das Sarma, G. J. Tennenhouse

Complexes of N-hydroxyethylthylenediamine. *J. Am. Chem. Soc.*, 90:1362.

With H. E. LaMay, Jr.

The solid phase racemization of levo-cis-[Cren₂Cl₂]Cl · H₂O. *Ibid.*, p. 1729.

With H. Itatani, H. Tayim

Homogeneous catalysis in the reactions of olefinic substances. *J. Japan. Chem.*, 22, 4:41-45.

With R. W. Adams, G. E. Batley

Homogeneous catalytic hydrogenation and isomerization of olefins with dichlorobis(triphenylphosphine)platinum(II)-tin chloride catalyst. *Inorg. Nucl. Chem. Letters*, 4:455-58.

Homogeneous catalysis in the reactions of olefinic substances. XI. Homogeneous catalytic hydrogenation of short chain olefins with dichlorobis(triphenylphosphine)platinum(II)-tin(II) chloride catalyst. *J. Am. Chem. Soc.*, 90, 22:6051-56.

With G. E. Batley

Palladium(II)-tin(II) complexes. *Inorg. Nucl. Chem. Letters*, 4:577-80.

Reviews

Ligand reactivity and catalysis, by Mark M. Jones. *Science*, 162:1380.

BEAK, PETER A., Associate Professor

Articles

With J. Bonham, J. T. Lee, Jr.

Equilibration studies. The energy difference for some six-membered heterocyclic methyl amide-imide isomer pairs. *J. Am. Chem. Soc.*, 90:1569-82.

With R. J. Trancik

Cationic aromatic substitution at the bridgehead of 1-substituted apocamphanes. *Ibid.*, pp. 2714-15.

BEATTIE, JAMES K., Assistant Professor

Articles

With Sr. Helen Elsbernd

An outer-sphere charge transfer transition in tris(ethylene-diamine)ruthenium(III) iodide. *Inorg. Chem.*, 7:2468.

With S.-A. Frennesson, G. P. Haight, Jr.

Mechanism of formation of hydrogen chromatosphosphate(2-). *J. Am. Chem. Soc.*, 90: 6018.

BELFORD, R. LINN, Associate Professor

Articles

With R. E. Tapscott, I. C. Paul

Crystal structure of a binuclear vanadyl(IV) anion. Tetrasodium divanadyl(IV) d-tartrate l-tartrate dodecahydrate. *Inorg. Chem.*, 7:356-64.

With B. Bersted, I. C. Paul

The crystal and molecular structure of orthorhombic vanadyl(IV)pyridine-2,6-dicarboxylate tetrahydrate. *Ibid.*, pp. 1557-62.

BLOOMFIELD, VICTOR A., Assistant Professor

Articles

Hydrodynamic properties of DNA. *Macromolecular Reviews*, 3:255-16. Sedimentation coefficient of replicating and cross-linked DNA. *Biopolymers*, 6:285-92.

Hydrodynamic studies of the structure of biological macromolecules. *Science*, 161: 1212-19.

With D. P. Filson

Shell model calculations of translational and rotational frictional coefficients. *J. Polymer Sci. C*, 25:73-83.

The configuration of polysomers in solution. *Biochim. Biophys. Acta*, 155:169-82.

With P. Sharp

Intrinsic viscosity of wormlike chains with excluded volume effects. *J. Chem. Phys.*, 48:2149-55.

Light scattering from wormlike chains with excluded volume effects. *Biopolymers*, pp. 1201-11.

Variation in intrinsic viscosity Φ parameter with chain topology, hydrodynamic interaction, and excluded volume. *Macromolecules*, 1:380-84.

Light scattering and hydrodynamic properties of polymer chains with excluded volume effects. *J. Chem. Phys.*, 49:4564-66.

With R. J. Douthart

Intrinsic viscosities of cyclic and linear λ DNA. *Biopolymers*, 6:1297-1309.

Macroscopic measurements of rotational frictional coefficients for T2 bacteriophage models. *Biochemistry*, 7:3912-17.

BROWN, THEODORE L., Professor

Books

General chemistry (2nd ed.). Charles E. Merrill Pub. Co., Columbus, Ohio, 668 pp.

Articles

The mechanism of carbonyl exchange in $Mn(CO)_5X$ compounds. *Inorg. Chem.*, 7:2673-75.

Nuclear magnetic resonance studies of organometallic exchange processes. *Accounts Chem. Res.*, 1:23-32.

With L. L. Murrell

Exchange in mixtures of methylmercury halides and pseudo halides. *J. Organometallic Chem.*, 13:301-11.

With L. M. Seitz, B. Y. Kimura

On the absence of lithium-6-lithium-7 spin-spin coupling in alkyl lithium compounds. *J. Am. Chem. Soc.*, 90:3245-46.

With D. J. Darensbourg

Kinetics of thermal decomposition and substitution reactions of molybdenum pentacarbonyl amine compounds. *Inorg. Chem.*, 7:1679-80.

Infrared intensities of the carbonyl stretching modes and electronic spectra of substituted molybdenum carbonyls. *Ibid.*, pp. 959-66.

With A. F. Schreiner

A semiempirical molecular orbital model for $Cr(CO)_6$, $Fe(CO)_5$ and $Ni(CO)_4$. *J. Am. Chem. Soc.*, 90:3366-74.

With W. L. Wells

Investigation of methyltin-lithium compounds. *J. Organometallic Chem.*, 11:271-80.

BROQUIST, HARRY P., Professor

See Dairy Science.

CARTER, HERBERT E., Professor

Articles

With C. B. Hirschberg

Phytosphingosines and branches sphingosines in kidney. *Biochemistry*, 7:2296.

CLARK, JOHN M., JR., Associate Professor

Articles

With J. K. Gunther, A. Y. Chang

Action of spleen phosphodiesterase upon soluble ribonucleic acid. *Arch. Biochem. Biophys.*, 125:480.

With J. Nagyvary, R. Provenzale

Polyarabinouridylic acid: Primordial messenger or inhibitor? *Biochem. Biophys. Res. Commun.*, 31:508.

With M. E. Reichmann

In vitro synthesis of plant viruses. *Ann. Rev. Phytopathology*, 6:295.

With K. R. Shelton

In vitro tritium labeling of DNA. *Biochem. Biophys. Res. Commun.*, 33:850.

With E. Wimmer, A. Y. Change, M. E. Reichmann

Sequence studies of the satellite tobacco necrosis virus RNA I. Isolation and Characterization of a 5' terminal trinucleotide. *J. Mol. Biol.*, 38:59.

COATES, ROBERT M., Assistant Professor

Articles

With J. E. Shaw

Stereoselectivity in the synthesis of *cis*- and *trans*-4,4a-dimethyl-2-actalone derivatives. *Chem. Comm.*, pp. 47-48.

The total synthesis of (\pm)- $\Delta^1(10)$ -aristolene (calarene). *Ibid.*, pp. 513-16.

The total synthesis of (\pm)-eremophilene and (\pm)-eremoligenol. *Tetrahedron Letters*, pp. 5405-8.

With J. L. Kirkpatrick

Reactivity and degenerate rearrangement in the solvolysis of 9-pentacyclo[4.3.0.0.2⁴.0³.8.0⁵.7]nonane *p*-nitrobenzoate. *J. Am. Chem. Soc.*, 90:4162-64.

With E. F. Bertram

Biogenetic-like rearrangements of isosteviol derivatives. A partial synthesis of trachylobane. *Tetrahedron Letters*, pp. 5145-48.

CONRAD, H. E., Associate Professor

Articles

With D. E. Koeltzow, J. D. Epley

The lipopolysaccharides of *aerobacter aerogenes* strains A3 (S1) and NCTC 243. *Biochemistry*, 7:2920-28.

With L. C. Gahan

An enzyme system for de novo biosynthesis of glycogen in *aerobacter aerogenes*. *Ibid.*, pp. 3979-90.

CURTIN, DAVID Y., Professor

Articles

With R. P. Quirk

Stereospecific arylation of olefins. *Tetrahedron*, 24:5791-5801.

With G. N. Koshel

Sintez i termicheskie razlozhenie nekotorykh N-atzetiliazenov. *Zhur. Org. Khim. (SSSR)*, 4:1264-67.

With J. H. Engelmann

Benzylation of the sodium salt of 6(5H)-phenanthridinone and an O-to-N benzoyl migration. *Tetrahedron Letters*, pp. 3911-13.

DRAGO, RUSSELL S., Professor

Books

With N. A. Matwiyoff

Acids and bases. D. C. Heath, Boston, 121 pp.

Articles

With B. B. Wayland

The absence of steric effects on the proton contact shifts for $Co(C_5H_5N)_2X_2$ Complexes. *Inorg. Chem.*, 7:628.

With D. A. Rowley

Electronic structure of tetragonal(II) complexes. *Ibid.*, p. 795.

With M. Wicholas

Factoring of the isotropic shift in paramagnetic cobalt(II) complexes. *J. Am. Chem. Soc.*, 90:2196.

- Spin-delocalization mechanisms in some paramagnetic tris-2,2'-bipyridine complexes of nickel(II). *Ibid.*, p. 6946.
- With R. J. Fitzgerald
Contact shift studies, delocalization mechanisms and extended huckel calculations of nickel(II)-alkylamine complexes. *Ibid.*, p. 2523.
- With T. D. Epley
Solvent effects on the values measured for enthalpies of adduct formation. *Ibid.*, p. 3886.
- With K. F. Purcell
Ambiguity in the force field for PX_5 molecules. *J. Chem. Phys.*, 48:3837.
- With D. W. Herlocker
Tetrahedral and pseudotetrahedral complexes of cobalt (II) with trimethylamine-N-oxide. *Inorg. Chem.*, 7:1479.
- With D. P. Eyman, L. J. Sacks
Gas-phase enthalpies of adduct formation: dimethylamine-Chloroform and ethyl acetate-boron trifluoride. *Ibid.*, p. 1484.
- With R. E. Cramer
Extended huckel calculations of hydrogen and nitrogen electron paramagnetic resonance coupling constants for radicals containing carbon, hydrogen, nitrogen and oxygen atoms. *J. Am. Chem. Soc.*, 90:4790.
- With H. F. Henneike
The electronic structure and donor properties of cyanamides. *Ibid.*, p. 5112.
- With J. C. Fanning
The influence of solvent on ion association. Proton nuclear magnetic resonance of triethylmethylammonium hexacyanoferrate(III). *Ibid.*, p. 3987.
- With H. F. Henneike, Jr.
A comparison of the donor properties of dimethylcyanamide and acetonitrile. *Inorg. Chem.* 7:1908.
- With S. S. Zumdahl
Nuclear magnetic resonance study of the exchange of hexamethyl phosphoramide with dibalobis(hexamethyl-phosphoramidate)-Cobalt(II). *Ibid.*, p.2162.
- A molecular orbital study of the trans influence and kinetic trans effect in square-planar platinum(II) complexes. *J. Am. Chem. Soc.*, p. 6669.
- With D. G. Brown, T. F. Bolles
The linear $\Delta H - \Delta \nu_{C=O}$ Relation for ethyl acetate adducts and its significance for donor-acceptor interactions. *J. Am. Chem. Soc.*, 90:5706.
- With I. M. Walker
Ion pairing and magnetic anisotropy in some tetrahedral complexes of iron(II), cobalt(II) and nickel(II). *Ibid.*, p. 6951.
- DRICKAMER, HARRY G., Professor
Articles
Pressure-volume measurements at very high pressure. *Comments on Solid State Physics*, 1:11-15.
- With S. C. Fung, G. K. Lewis, Jr.
The effect of pressure on the oxidation state of iron II-oxygen ligands. *Proc. Natl. Acad. Sci.*, 61:812-19.
- With W. Holzappel
The effect of pressure on the volume of the high pressure (VII) phase of H_2O and D_2O . *J. Chem. Phys.*, 48:4798-4800.
- With G. K. Lewis, Jr.
High pressure Mössbauer studies of Fe^{57} in silicate and phosphate glasses. *J. Chem. Phys.*, 49:3785-89.
- The effect of pressure on the Mössbauer spectrum of $Fe_2(CO)_9$ and $Fe_3(CO)_{12}$. *Ibid.*, pp. 3782-85.
- High pressure Mössbauer resonance studies of the conversion of $Fe(III)$ to $Fe(II)$ in $FeCl_3$, $FeBr_3$ and $KFeCl_4$. *Proc. Natl. Acad. Sci.*, 61:414-22.
- With J. A. Moyzis, Jr.
The effect of pressure on the Isomer shift of Fe^{57} in the BCC phase. *Phys. Rev.*, 171:389-93.
- With J. A. Moyzis, Jr., G. dePasquali
The effect of pressure on f number and Isomer shift for Fe^{57} in Cu, V, and Ti. *Ibid.*, 172:665-70.
- With R. W. Vaughan, G. K. Lewis, Jr.
The effect of pressure on the oxidation state of iron. *Comments on Solid State Physics*, 1:163-68.
- DUS, KARL M., Assistant Professor
Articles
With K. Sletten
Cytochrome c_2 from *Rhodospirillum rubrum*. In *Structure and function of cytochromes*, ed. by K. Okunuki, M. D. Kamen and I. Sekuzu. Univ. Tokyo Press and Univ. Park Press of Baltimore, pp. 293-303.
- With K. Sletten, H. de Klerk, M. D. Kamen
Cytochrome c_2 of *Rhodospirillum rubrum*. I Molecular properties of the protein and amino acid sequences of its peptides derived by the action of trypsin and thermolysin. *J. Biol. Chem.*, 243:5492-5506.
- With K. Sletten, M. D. Kamen
Cytochrome c_2 of *Rhodospirillum rubrum*. II Complete amino acid sequence and phylogenetic relationships. *Ibid.*, pp. 5507-18.
- ECKERT, CHARLES A., Assistant Professor
Articles
The order-disorder effect on solutions. *Chem. Eng. Progr. Symp. Ser.*, 64, 88:1.
- With T. R. Mills
Solvent effects on gas-phase reaction rates. *Ind. Eng. Chem. Fundamentals*, 7:327.
- With J. M. Prausnitz
Students use the computer to solve a problem in multicomponent vapor-liquid equilibria. *J. Eng. Educ.*, 58:1110.
- With H. Renon, J. M. Prausnitz
Reply to comments on the molecular thermodynamics of simple liquids. *Ind. Eng. Chem. Fundamentals*, 7:332.
- Molecular thermodynamics of simple liquids: Vapor pressures. *Ibid.*, p. 335.
- FLYGARE, WILLIS H., Professor
Articles
Molecular relaxation. *Accounts Chem. Res.*, 1:121-28.
- The molecular g-values and paramagnetic susceptibility in pi-bonding systems; vinylidene fluoride. *J. Chem. Phys.*, 48:1196-1206.
- With M. K. Lo
The molecular g-values and magnetic susceptibility in methylene fluoride. *J. Mol. Spectry.*, 25:365-74.
- With W. Huttner, M. K. Lo
The molecular g-value tensor, the molecular susceptibility tensor, sign of the electric dipole moment, and the molecular quad-

- rupole moments in formaldehyde. *J. Chem. Phys.*, 48:1206-20.
- With M. K. Lo, P. D. Foster
The molecular g-values and paramagnetic susceptibility of ketene. *Ibid.*, pp. 948-50.
- With R. G. Stone, S. L. Srivastava
Barrier studies in the halopropenes. III. Microwave spectra, molecular structure, quadrupole coupling constants, orientation of the field gradient tensor, and barrier to internal rotation in cis-1-chloro-2-fluoropropene. *Ibid.*, pp. 1890-98.
- With J. M. Pochan, J. E. Baldwin
Microwave spectrum, structure, and dipole moment in cyclopropanone. *J. Am. Chem. Soc.*, 90:1072-74.
- With R. G. Stone
The principal field gradient tensor in 1,1-difluoro-2-chloro-ethylene and bonding in the substituted ethylenes. *J. Chem. Phys.*, 49:1943-47.
- With W. Huttner
The rotational Zeeman effect in methyl iodide. *Ibid.*, pp. 1912-16.
- With J. Goodisman
On the calculation of diamagnetic shielding in molecules. *Ibid.*, pp. 3122-26.
- With R. L. Shoemaker
³⁵S nuclear quadrupole coupling and the sulfur localized electron distribution in ethylene sulfide. *J. Am. Chem. Soc.*, 90:6263-67.
- With M. K. Kemp
The nitrogen principal field gradient tensor, bonding, and barrier to proton tunneling in ethylenimine. *Ibid.*, pp. 6267-75.
- FORD, WARREN T., Assistant Professor
Articles
With D. J. Cram, L. Gosser
Survey of substituent effects on stereochemical fate of fluorenyl carbanions. *J. Am. Chem. Soc.*, 90:2598-606.
- With D. J. Cram
Kinetics of isoracemization of a fluorenyl carbon acid. *Ibid.*, pp. 2606-11.
- Charge distribution effects on kinetic components of racemization and isotopic exchange of isomeric fluorenyl carbon acids. *Ibid.*, pp. 2612-22.
- GOODISMAN, JERRY, Assistant Professor
Articles
Erratum upper bounds from perturbation theory. *J. Chem. Phys.*, 48:1431-32.
- Bare-nucleus perturbation theory: excited states of hydrogen molecule. *Ibid.*, pp. 2981-89.
- With D. Davis
Scaling and relaxation of SCF wavefunctions for isoelectronic systems. *J. Chem. Phys.*, 49:939-44.
- With W. H. Flygare
On the calculation of diamagnetic shielding in molecules. *Ibid.*, pp. 3122-26.
- With L. J. Bartolotti
Bare-nucleus perturbation treatment of HeH⁺. *Ibid.*, pp. 4237-38.
- GUNSALUS, IRWIN C., Professor
Articles
A soluble methylene hydroxylase system: structure and role of cytochrome P-450 and iron-sulfur protein components. *Z. Physiol. Chem.*, 349, 11:1610-13.
- With J. C. M. Tsibris, Mary Jane Namtvedt
Selenium as an acid labile sulfur replacement in putidaredoxin. *BBRC*, 30:323-27.
- With J. C. M. Tsibris, R. Tsai, W. H. Orme-Johnson, R. E. Hanson, H. Beinert
The number of iron atoms in a paramagnetic center ($g = 1.94$) of reduced putidaredoxin, a nonheme iron protein. *Proc. Natl. Acad. Sci.*, 59:959-65.
- With R. Cooke, J. C. M. Tsibris, P. deBrunner, R. Tsai, H. Frauenfelder
Mössbauer studies on putidaredoxin. *Ibid.*, pp. 1045-52.
- With A. M. Chakrabarty, C. F. Gunsalus
Transduction and the clustering of genes in fluorescent pseudomonads. *Ibid.*, 60:168-75.
- With M. Katagiri, B. N. Ganguli
A soluble cytochrome P-450 functional in methylene hydroxylation. *J. Biol. Chem.*, 243:3543-46.
- With W. H. Orme-Johnson, R. E. Hanson, H. Beinert, J. C. M. Tsibris, R. C. Bartholomaus
On the sulfur components of iron-sulfur proteins. I. The number of acid-labile sulfur groups sharing an unpaired electron with iron. *Proc. Natl. Acad. Sci.*, 60:368-72.
- GUTOWSKY, HERBERT S., Professor
Articles
With N. Boden, J. Capart, W. Derbyshire, J. R. Hansen
Frequency sweep, field-frequency stabilized, double resonance spectrometer. *Rev. Sci. Instr.*, 39:805-16.
- With E. S. Gore
Chemical exchange and transient effects in an AB-type NMR spectrum. *J. Chem. Phys.*, 48:3260-67.
- With T. D. Alger
Solvent and temperature dependence of NMR spectral parameters in 2-fluoropyridine solutions. *Ibid.*, pp. 4625-32.
- With J. Jonas
Nuclear magnetic resonance. *Ann. Rev. Phys. Chem.*, 19:447-76.
- With D. L. VanderHart
Rigid-lattice NMR moments and line shapes with chemical-shift anisotropy. *J. Chem. Phys.*, 49:261-71.
- HAGER, LOWELL P., Professor
Articles
With R. J. Light
Molecular parameters of 6-methylsalicylic acid synthetase from gel filtration and sucrose density gradient centrifugation. *Arch. Biochem. Biophys.*, 125:326-33.
- With C. C. Cunningham
Restoration of electron transport activity in lipid depleted *Escherichia coli* cell envelope fractions. *Bact. Proc.* p. 133.
- With J. A. Thomas
The peroxidation of molecular iodine to iodate by chloroperoxidase. *BBRC*, 32:770-75.
- With E. Itagaki
The amino acid sequence of cytochrome b₅₅₂ of *Escherichia coli*. *Ibid.*, pp. 1013-19.
- HAIGHT, GILBERT P., JR., Professor
Books
With D. Cowan, G. Hammond, H. B. Gray
Introductory chemistry, Part I (preliminary ed.). W. A. Benjamin, Inc., N.Y., 398 pp.
- Articles
Energy cycles. *J. Chem. Educ.*, 45:420-22.

With L. Johansson

Bismuth iodide complexes in aqueous solution of high iodide concentration. *Inorg. Chem.*, 7:1255-57.

Complexes of tin (II) with iodide. *Acta Chem. Scand.*, 22:961-71.

With M. Rose, J. Preeer

Reactions of chromium (VI) with P (III). Oxidation of H_3PO_3 and H_3PO_2 . *J. Am. Chem. Soc.*, 90:4809-14.

With M. Rose, C. Heller, F. Smentowski

Reactions of chromium (VI) with P (III). Ethyl substituted P(III) compounds. *Ibid.*, pp. 6325-28.

With S. A. Frennesson, J. K. Beattie

Mechanism of formation of hydrogen chromophosphate(2-). *J. Am. Chem. Soc.*, 90: 6018-22.

HANRATTY, THOMAS J., Professor

Articles

With L. S. Cohen

Effect of waves at a gas-liquid interface on a turbulent air flow. *J. Fluid Mech.*, 31:467.

With H. G. Dimopoulos

Velocity gradients at the wall for flow around a cylinder. *Ibid.*, 33:303.

With A. J. Karabelas

Determination of the direction of surface velocity gradients in three-dimensional boundary layers. *Ibid.*, 34:159.

HUDSON, JOHN L., Assistant Professor

Articles

Convection near a cooled disk rotating with its environment. *Intern. J. Heat Mass Transfer*, 11:407.

Non-isothermal flow between rotating disks. *Chem. Eng. Sci.*, 23:1007.

With G. M. Homsy

Transient flow near a rotating disk. *Appl. Sci. Res.*, 18:384.

With J. Heicklen

Theory of carbon formation in vapor-phase pyrolysis. I. Constant concentration of active species. *Carbon*, 6:405.

With P. F. Tomlan

Transient response of countercurrent heat exchangers with short contact time. *Intern. J. Heat Mass Transfer*, 11:1253.

HUMMEL, JOHN P., Professor

Articles

With R. A. Meyer, W. B. Walters

Cross sections for the $^{16}\text{O}(\gamma,2n)$, $^{19}\text{F}(\gamma,2pn)$, $^{27}\text{Al}(\gamma,2pn)$, $^{51}\text{V}(\gamma,\alpha 3n)$ reactions to 300 mev. *Nuclear Physics*, A122, 3:606-24.

JONAS, JIRI, Assistant Professor

Articles

Molecular motion in substituted acetylenes in the liquid state. *J. Chem. Phys.*, 49: 4232-33.

With Z. M. Holubec

Magnetic resonance study of conformational inversion in some substituted 10, 10-dimethyl-9, 10-dihydroanthracenes. *J. Am. Chem. Soc.*, 90:5986-91.

With H. S. Gutowsky

Nuclear magnetic resonance. *Ann. Rev. Phys. Chem.*, 19:447-76.

JUVET, RICHARD S., Associate Professor

Articles

With S. Dal Nogare

Gas chromatography. *Anal. Chem.*, 40, 5: 33-50R.

KUKOLICH, STEPHEN G., Assistant Professor

Articles

Measurements of the 3-2 inversion frequency and frequency stability of a two-cavity ammonia maser. *Proc. IEEE*, 56, 1:124-25.

Time dependence of quantum state amplitudes demonstrated by free precession of spins. *Am. J. Phys.*, 36, 5:420-25.

Hyperfine structure of N^{15}H_3 . *Phys. Rev.*, 172, 1:59-63.

Demonstration of the Ramsauer-Townsend effect in a xenon thyatron. *Am. J. Phys.*, 49, 8:701-03.

Measurement of hyperfine structure in NH_2D . *J. Chem. Phys.*, 49, 12:5523-25.

LAITINEN, HERBERT A., Professor

Articles

Polarography in molten salts. *IUPAC*, 15: 227-37.

With C. A. Vincent, T. M. Bednarski

Behavior of tin oxide semiconducting electrodes under conditions of linear potential scan. *J. Electrochem. Soc.*, 115:1024-28.

LEONARD, NELSON J., Professor

Articles

With D. A. Durand

Small charged rings. XI. Synthesis and reactions of 1,1,2,2-tetrasubstituted azetidinium salts. *J. Org. Chem.*, 33:1322-33.

With M. Rasmussen

The synthesis of 3- β -(3'-deoxy-D-ribofuranosyl)-adenine, an isomer of cordycepin. *Ibid.*, pp. 2488-90.

With J. A. Klainer

Transannular nitrogen-carbonyl interaction. Generation of an α -acetoxy quaternary ammonium salt. *Ibid.*, pp. 4269-70.

With E. F. Muth, V. Nair

The reaction of an azirine with anilinium perchlorate. A method of obtaining α -ammonium anils. *Ibid.*, pp. 827-28.

With F. C. Sciavolino, V. Nair

Stereochemistry of the anomers of methyl 2-deoxy-D-ribofuranoside. Synthesis of methyl 5-(6-aminopurin-9-yl)-2,5-dideoxy- α -D-ribofuranoside, a "reversed" nucleoside. *Ibid.*, pp. 3169-74.

With D. T. Browne, J. Eisinger

Synthetic spectroscopic models related to co-enzymes and base pairs. II. Evidence for intramolecular base-base interactions in dinucleotide analogs. *J. Am. Chem. Soc.*, 90:7302-23.

With S. M. Hecht, F. Skoog, R. Y. Schmitz

Cytokinins: Synthesis of 6-(3-methyl-2-butenylamino)-9- β -D-ribofuranosylpurine, 3i-PA, and the effect of sidechain unsaturation on biological activity of isopentenylaminopurines and their ribosides. *Proc. Natl. Acad. Sci. U.S.A.*, 59:15-21.

With W. J. Burrows, D. J. Armstrong, F. Skoog, S. M. Hecht, J. T. A. Boyle, J. Uccolowitz

Cytokinin from *E. coli* sRNA: 6-(3-methyl-2-butenylamino)-2-methylthio-9- β -D-ribofuranosylpurine. *Science*, 161:691-93.

LOMBARDI, JOHN R., Assistant Professor

Articles

The stark effect in electronic spectra; the asymmetric rotor. *J. Chem. Phys.*, 48: 348-53.

MALMSTADT, HOWARD V., Professor

Articles

With A. V. Nowak

A versatile ionization detector system for gas chromatography. *J. Chem. Educ.*, 45: 519-23.

A selective gas-chromatographic detector utilizing flame emitted radiation from a sensitized flame. *Anal. Chem.*, 40:1108-13.

With E. Cordos, S. R. Crouch

An automatic digital readout system for spectrophotometric reaction-rate measurements. *Ibid.*, pp. 1812-18.

With G. M. Hieftje

A unique system for studying flame spectroscopic processes. *Ibid.*, pp. 1860-67.

With S. R. Crouch

Determination of inorganic phosphate in the presence of adenosine triphosphate by the automatic reaction-rate method. *Ibid.*, pp. 1901-02.

With Adelina C. Javier, S. R. Crouch

Investigations of formation of 12-molybdophosphoric acid utilizing rapid reaction-rate measurements. *Ibid.*, pp. 1922-25.

MARCUS, R. A., Professor

Articles

Analytical mechanics and almost vibrationally-adiabatic chemical reactions. *Discussions Faraday Soc.*, 44:7-13.

Theoretical relations among rate constants, barriers, and Bronsted slopes of chemical reactions. *J. Phys. Chem.*, 72:891-99.

Recent developments in theoretical chemical kinetics. *J. Chem. Educ.*, 45:356-58.

Electron transfers at electrodes and in solutions. Comparison of theory and experiment. *Electrochim. Acta*, 13:995-1004.

Remarks on the generalization of activated complex theory. In *Chemische Elementarprozesse*, ed. by H. Hartmann, Springer-Verlag, N.Y., pp. 23-25.

Unimolecular reaction rate theory. *Ibid.*, pp. 109-16.

Electron transfer reactions. *Ibid.*, pp. 348-56.

On the analytical mechanics of chemical reactions. III. Natural collision coordinates. *J. Chem. Phys.*, 49:2610-16.

On the analytical mechanics of chemical reactions. IV. Classical mechanics of reactions in two dimensions. *Ibid.*, pp. 2617-31.

General introduction to Faraday Society Discussions on electrode reactions of organic compounds. *Discussions Faraday Soc.*, 45: 1-13.

With S. A. Levison

Kinetics of ferrocyanide reduction of quinones. *J. Phys. Chem.*, 72:358-60.

With A. O. Cohen

On the slope of free energy plots in chemical kinetics. *Ibid.*, pp. 4249-56.

On the classical mechanics of rotational-translational and other energy transfer. I. A Hamilton-Jacobi (action-angle) treatment. *J. Chem. Phys.*, 49:4509-14.

MARTIN, JAMES C., Professor

Articles

With S. A. Dombchik

Cage reactions of acetoxy radicals. In *Oxidation of organic compounds—1*, Advances in Chemistry Series, 75:269-81.

With J. W. Timberlake

Synthetic routes to cyclopropyl-substituted azoalkanes. Some reactions of cyclopropyl-carbonyl cyanates, isocyanates, benzoates, and *p*-nitrobenzoates. *J. Org. Chem.*, 33: 4054-60.

McCLURE, WILLIAM O., Assistant Professor

Articles

With G. M. Edelman

Fluorescent probes and the conformation of proteins. *Accounts Chem. Res.*, 1:65.

MEYER, JAMES M., Visiting Assistant Professor

Articles

With A. L. Allred

Bis(triphenylphosphine)gold (I) halides. *J. Inorg. Nucl. Chem.*, 30:1328.

II — Bonding by germanium and the ultraviolet spectra of some phenylgermanes. *J. Phys. Chem.*, 72:3043.

MOELLER, THERALD, Professor

Articles

The lanthanide elements. In *The encyclopedia of the chemical elements*, ed. by C. A. Hampel, Reinhold Pub. Corp., N.Y., pp. 11.

With C. W. Allen

Aryl-substituted phosphonitrilic fluorides. II. The reaction of aryllithium reagents with trimeric phosphonitrilic fluoride. *Inorg. Chem.*, 7:2177-83.

With C. W. Allen, F. Y. Tsang

Aryl-substituted phosphonitrilic fluorides. III. Geminally substituted phenylphosphonitrilic fluoride trimers. *Ibid.*, pp. 2183-88.

With E. R. Birnbaum, J. H. Forsberg, R. B. Gayhart

Some aspects of the coordination chemistry of the rare earth metal ions. In *Progress in the science and technology of the rare earths*, ed. by L. Eyring, Pergamon Press, Oxford, England, 3:61-128.

With S.-K. Chu, B. S. Manhas

Isomerization of the 1,3,5-tribromo-1,3,5-triphenyl-triphosphonitriles. [NP(C₆H₅)(Br)]₃. *J. Inorg. Nucl. Chem.*, 30:322-25.

With S.-K. Chu, B. S. Manhas, P. Nannelli

Trimeric phenylphosphonitrilic bromides. *Inorg. Syn.*, 11:201-5.

With M. K. Feldt

Arylation reactions of trichlorophosphazido-substituted trimeric phosphonitrilic chloride. *J. Inorg. Nucl. Chem.*, 30:2351-61.

With J. H. Forsberg

Tris- and tetrakis-ethylenediamine chelates of tripositive lanthanide ions. *J. Am. Chem. Soc.*, 90:1932.

With L. J. Sauro

Observations on the rare earths, LXXVIII. Tetrakis(pyrimidone) chelates of selected tripositive ions. *J. Inorg. Nucl. Chem.*, 30: 953-60.

NYSTROM, ROBERT F., Professor

With Daniela Gurne

Synthesis of ¹⁴C-labelled formic acid. In *Methods of preparing and storing labelled*

- compounds, European Atomic Energy Community, Brussels, pp. 103-5.
- With N. S. S. Rajan, Nguyen H. Nam, Daniela Gurne
Preparation of tritium labeled cyclohexenes and degradation by pyrolytic radiogas chromatography. *Ibid.*, pp. 407-18.
- PAUL, IAIN C., Associate Professor
- Articles
- With S. M. Johnson, K. L. Rinehart, Jr., R. Srinivasan
The absolute configuration of caldariomycin. *J. Am. Chem. Soc.*, 90:136-40.
- With R. E. Tapscott, R. L. Belford
Crystal structure of a binuclear vanadyl (IV) anion. Tetrasodium divanadyl(IV) *d*-tartrate 1-tartrate dodecahydrate. *Inorg. Chem.*, 7:356-64.
- With J. S. McKechnie
Silver ion-bullvalene complex formation resulting in an infinite helical structure with $Ag^+ - H_2O$ coordination. *Chem. Commun.*, pp. 44-45.
- The structure of the benzoic acid rearrangement product of $3\alpha, 17\beta$ -diacetoxy-11-hydroxy-12-oxo-5 β -androst-9(11)-ene; An unusual structure with three five-membered rings *cis*-fused. *J. Am. Chem. Soc.*, 90:2144-49.
- The molecular structure of the oxidised condensation product of *o*-benzoylbenzaldehyde and ethylene diamine. *J. Chem. Soc.*, (B):984-88.
- Crystal and molecular structure of a 1:1 bullvalene-silver tetrafluoroborate complex. *J. Chem. Soc.*, (B), 1445.
- With B. H. Bersted, R. L. Belford
The crystal and molecular structure of orthorhombic vanadyl(IV) pyridine-2,6-dicarboxylate tetrahydrate. *Inorg. Chem.*, 7:1557-62.
- With J. E. Baldwin, J. A. Kapecki
The crystal and molecular structure of the adduct from 3-diazobutanone and carbon disulfide. *J. Am. Chem. Soc.*, 90:5800-805.
- With L. J. Todd, J. L. Little, P. S. Welcker, C. R. Peterson
Polyhedral transition metal complexes containing the $B_9H_9CHP^{2-}$ and $B_9H_9CHPCH_2$ ligands. *Ibid.*, pp. 4489-90.
- With S. M. Johnson, L. A. Paquette, J. H. Barnett, R. J. Haluska
The molecular geometry of derivatives of 1*H*-azepine in the free and complexed state. *Ibid.*, pp. 5023-24.
- With P. C. Thomas
The crystal and molecular structure of a novel boron-nitrogen cage compound. *Chem. Commun.*, 1130-31.
- With S. M. Johnson
Crystal and molecular structure of [16]annulene. *J. Am. Chem. Soc.*, 90:6555-56.
- PIRKLE, WILLIAM H., Assistant Professor
- Articles
- With S. D. Beare
Nuclear magnetic resonance spectroscopy in optically active solvents. V. The determination of the absolute configuration of (+)- α -hydroxy- α -trifluoromethylphenylacetic acid. *Tetrahedron Letters*, 2579-82.
- Optically active nmr solvents VII. The direct determination of optical purity and absolute configuration of sulfoxides. *J. Am. Chem. Soc.*, 90:6250-51.
- With T. G. Burlingame, S. D. Beare
Optically active nmr solvents VI. The determination of optical purity and absolute configuration of amines. *Ibid.*, pp. 5849-52.
- With D. Chamot, W. A. Day
1,2-Dimethyl-5,7-di-*t*-butylspiro[2.5]octa-1,4,7-trien-6-one. Synthesis and chemistry. *J. Org. Chem.*, 33:2152-53.
- With G. F. Koser
Halonium ylids II. *Tetrahedron Letters*, pp. 3959-62.
- Halonium ylids I. *J. Am. Chem. Soc.*, 90:3598-600.
- With L. H. McKendry
The multiplicity of the reactive 2-pyrone excited states. *Tetrahedron Letters*, pp. 5279-82.
- With M. Dines
Structure of electron impact fragments. The C_4H_4O radical cation from 2-pyrone. *J. Am. Chem. Soc.*, 90:2318-23.
- QUINN, JOHN A., Professor
- Articles
- With W. T. Mitchell
Convection induced by surface-tension gradients: Experiments with a heated point source. *Chem. Eng. Sci.*, 23:503-7.
- With G. D. Rose
Composite membranes: The permeation of gases through deposited monolayers. *Science*, 159:636-37.
- Gas transport through supported Langmuir-Blodgett monolayers. *J. Colloid and Interface Sci.*, 27:193-207.
- With L. M. Blair
Measurement of small density differences: Solutions of slightly soluble gases. *Rev. Sci. Instr.*, 39:75-77.
- RINEHART, KENNETH L., JR., Professor
- Articles
- With S. M. Johnson, I. C. Paul, R. Srinivasan
The absolute configuration of caldariomycin. *J. Am. Chem. Soc.*, 90:136-40.
- With A. C. Buchholz, G. E. Van Lear
Mass spectral fragmentation of aniline-1- ^{13}C . *Ibid.*, pp. 1073-75.
- With R. Srinivasan
Preparation and unusual mass spectra of 3,4,4-trimethyl-5-oxo-*trans*-2-hexenoic acid and related compounds. *J. Org. Chem.*, 33:351-55.
- With M. F. Grostic
Steroid mass spectral correlations. I. Hydroxyprogesterones. *Ibid.*, pp. 1740-46.
- With A. C. Buchholz, G. E. Van Lear, H. L. Cantrell
A randomly labeled propylum ion in the mass spectrum of toluene- α -1- ^{13}C . *J. Am. Chem. Soc.*, 90:2983-85.
- With T. H. Kinsle
Mass spectrometry. *Ann. Rev. Phys. Chem.*, 19:301-42.
- With R. A. Gardiner, J. J. Snyder, H. P. Broquist
Slaframine. Absolute stereochemistry and a revised structure. *J. Am. Chem. Soc.*, 90:5639-40.
- With H. H. Mathur
Chemistry of the streptovaricins. IV. Structure of varical A. *Ibid.*, p. 6241.

With H. H. Mathur, K. Sasaki, P. K. Martin, C. E. Coverdale

Chemistry of the streptoviricins. V. Structures of streptoviricins A and C. *Ibid.*, pp. 6241-43.

SANI, ROBERT L., Assistant Professor

Articles

Free convective instability. *Mathematica Japonicae*, 12, 1:81-99.

An extension and convergence proof of an approximate method due to Pellew and Southwell. *Z.A.M.M.*, 48, 1:65-66.

On two vector decompositions useful in cellular convection. *Mathematica Japonicae*, 13, 1:75-93.

SCHMITZ, ROGER A., Associate Professor

Articles

With D. K. Winegardner

Stability of exothermic reaction on a spherical surface. *A.I.Ch.E. J.*, 14:301-10.

SCHROEPFER, GEORGE J., JR., Associate Professor

Articles

With W. G. Niehaus, Jr.

Enzymatic stereospecificity in the hydration of epoxy fatty acids. Stereospecific incorporation of the oxygen of water. *J. Am. Chem. Soc.*, 89:4227-28.

With A. M. Paliokas, W. Lee

Improved separation of sterols by column chromatography. *J. Lipid Research*, 9: 143-45.

With A. M. Paliokas

Stereospecificity in the enzymatic conversion of Δ^7 -cholesten-3 β -ol to 7-dehydrocholesterol. *J. Biol. Chem.*, 243:453-64.

With W. Lee

Enzymatic conversion of $\Delta^{8,14}$ -cholesten-3 β -ol to cholesterol. *Biochem. Biophys. Res. Commun.*, 32:635-38.

With B. N. Lutsky

Enzymatic conversion of $\Delta^{8,14}$ -cholestadien-3 β -ol to cholesterol. *Ibid.*, 33:492-96.

SECRET, DON, Associate Professor

Articles

Time-sharing experimental control on a small computer. *I and EC*, 60, 6:74-80.

Energy transfer in the distorted wave approximation. *J. Chem. Phys.*, 49, 6:2880-81.

With B. Robert Johnson

Quantum-mechanical calculations of the inelastic cross sections for rotational excitation of para and ortho H₂ upon collision with He. *Ibid.*, 48, 10:4682-93.

SHAKHASHIRI, BASSAM Z., Visiting

Assistant Professor

Articles

With G. Gordon

Comments on data handling in oxygen-18 tracer studies. *J. Inorg. Nucl. Chem.*, 30: 2539-44.

The oxidation of tris(bio-phenanthroline) iron (II) ion by aqueous chlorine. *Inorg. Chem.*, 7:2454-56.

SMITH, STANLEY G., Associate Professor

Articles

With R. J. Feldt

Evidence for the formation of two tetrasubstituted intermediates in the alkaline hydrolysis of ethyl thionbenzoate. *J. Org. Chem.*, 33:1022-27.

With D. V. Milligan

Effect of ion pairing on the rate and site of alkylation of oxime salts. *J. Am. Chem. Soc.*, 90:2393-98.

With J. Billet

Kinetics of the addition of methylmagnesium bromide to 4-methylmercaptoacetophenone in diethyl ether. *Ibid.*, pp. 4108-16.

SNYDER, HAROLD R., Research Professor

Articles

With R. G. Landolt

The reaction of 9-nitroanthracene with sodium cyanide in dimethylformamide. *J. Org. Chem.*, 33:403-7.

With R. L. Keener, R. S. Skelton

The synthesis of 6-substituted thieno[3,2-b]pyrroles. *Ibid.*, pp. 1355-59.

With J. R. Kuszewski, W. J. Lennarz

Aromatic boronic acids. Synthesis of *o*-boronophenylalanine. *Ibid.*, pp. 4479-83.

With H. E. Dunn, J. C. Catlin

Arylboric acids. Imino derivatives from *o*-formylbenzene-boronic acid. *Ibid.*, pp. 4483-86.

STUCKY, GALEN D., Associate Professor

Articles

The crystal structure of (CH₃)₄NNiCl₃. *Acta Crystallographica*, B24:330.

Structural and spectroscopic studies of tetra-chlorophosphonium tetrachloroferrate(III), [PCl₄]⁺[FeCl₄]⁻. *Inorg. Chem.*, 7:9150.

With J. L. Atwood

Mg[Al(CH₃)₂(OCH₃)₂] · C₆H₅O₂. A novel coordination compound of a metal alkoxide and a donor molecule. *J. Organometallic Chem.*, 13:53.

With V. R. Magnuson

The preparation and crystal structure of (CH₃)₂Al₂N₂(C₆H₅)₂, μ -diphenylamino- μ -methyltetramethylaluminum. *J. Am. Chem. Soc.*, 90:3269.

SWITZER, ROBERT L., Assistant Professor

Articles

Mechanism of phosphoribosylpyrophosphate synthetase: Evidence for an enzyme-pyrophosphate intermediate. *Biochem. Biophys. Res. Commun.*, 32, 2:320-25.

WEBER, GREGORIO, Professor

Articles

With A. deKok, R. D. Spencer

Static and dynamic fluorescence quenching in the internal complex of FAD and in lipamide dehydrogenase. *Fed. Proc.*, 27:2.

Energy transfer methods in the study of ligand-protein interactions. *Molecular Assn. in Biology*, pp. 499-515.

With J. M. Brewer

The reversible dissociation of yeast enolase. *PNAS*, 59:216-23.

WOOD, JOHN M., Assistant Professor

Articles

With F. S. Kennedy, R. S. Wolfe

The reaction of multihalogenated hydrocarbons with free and bound reduced vitamin B₁₂. *Biochemistry*, 1:1707-13.

With B. C. McBride, J. W. Sibert,

G. N. Schrauzer

Methylcobalt derivatives of vitamin B₁₂ model compounds as substrates in enzymatic

- methane formation. *J. Am. Chem. Soc.*, 90:5276-77.
- With F. S. Kennedy, C. G. Rosen
Synthesis of methylmercury compounds by extracts of a methanogenic bacterium. *Nature*, 220, 5163:173-74.
- With S. Dagley, P. J. Geary
The metabolism of protocatechnic acid by pseudomonas testosteroni. *Biochemistry J.*, 109:559-68.
- WOODY, ROBERT W., Assistant Professor
- Articles
Improved calculation of the $n\pi^*$ rotational strength in polypeptides. *J. Chem. Phys.*, 49, 11:4797-4806.
- YANKWICH, PETER E., Professor
- Articles
With T. T.-S. Huang, W. J. Kass, W. E. Buddenbaum
Anomalous temperature dependence of kinetic carbon isotope effects and the phenomenon of crossover. *J. Phys. Chem.*, 72:4431-46.
- YARDLEY, JAMES T., Assistant Professor
- Articles
Passive Q-switching of the CO₂ laser by vinyl chloride. *Appl. Phys. Letters*, 12: 120-22.
- Vibration-to-vibration energy transfer in gas mixtures containing nitrous oxide. *J. Chem. Phys.*, 49:2816-21.
- With C. Bradley Moore
Vibration-vibration and vibration-translation energy transfer in methane-oxygen mixtures. *Ibid.*, 48:14-17.
- Vibrational energy transfer in methane I. *Ibid.*, 49:1111-25.
- DOCTORAL DISSERTATIONS
- Alley, Earl G. (D. E. Applequist, Adviser), Photoisomerization of the isomeric 1,4-dichloro-*ospiropentanes*.
- Anger, John D. (D. E. Applequist, Adviser), I. Studies toward the synthesis of 3,3,6,6-tetrakis (trifluoromethyl) cyclohexyne II. reaction of allylic halides with phenyllithium.
- Anderson, Wayne P. (T. L. Brown, Adviser), Part I. π -electron model for metal carbonyls Part II. infrared intensities of the carbonyl stretching modes in arenechromium tricarbonyls.
- Atwood, Jerry L. (G. D. Stucky, Adviser), Structure and bonding in group II and III organometallic chemistry.
- Baldwin, Jon M. (H. V. Malmstadt, Adviser), Alkali metal-halogen interactions in the sensitized flame ionization/flame photometric detector.
- Baylis, Bobby W. (J. C. Bailar, Jr., Adviser), Infrared and other spectral studies on bis-(*o*-phenylene-bisdimethylarsine)-cobalt (III) complexes.
- Billet, James (S. G. Smith, Adviser), Kinetics and mechanisms of the reactions of methylmagnesium reagents with ketones.
- Birnbaum, Edward R. (T. Moeller, Adviser), Observations on the rare earths: nuclear magnetic resonance studies of paramagnetic lanthanide complexes.
- Blair, Leslie M. (J. A. Quinn, Adviser), The onset of cellular convection in a fluid layer with time-dependent density gradients.
- Bradshaw, William S. (W. J. Rutter, Adviser), Studies on pancreatic lipase: multiplicity, distribution, and developmental regulation.
- Bromels, Edward (R. L. Belford, Adviser), Molecular vibrations: the sulfur-sulfur bond in elemental sulfur and construction of a laser-Raman spectrograph.
- Browne, Douglas T. (N. J. Leonard, Adviser), Synthesis and spectral studies of dinucleotide analogs.
- Carney, Joseph H. (H. A. Laitinen, Adviser), I. Electrochemistry of mercuric sulfide coated electrodes, II. electrochemical behavior of boron carbide.
- Cohen, Audrey O. (R. A. Marcus, Adviser), Classical rotational-translational energy transfer using variation of constants.
- Coon, Marvin D. (J. C. Martin, Adviser), Sesquioxanthranol and related compounds.
- Crouch, Robert J. (B. D. Hall, Adviser), Bacteriophage T4 ribonucleic acid synthesis, *in vivo* and *in vitro*.
- Cunningham, Carol C. (L. P. Hager, Adviser), Studies on the pyruvate oxidase system of *Escherichia coli*.
- Darensbourg, Donald J. (T. L. Brown, Adviser), Infrared intensities in substituted metal carbonyls.
- Diefallah, El-Husseyen M. (J. G. Kay, Adviser), Chemical effects of nuclear transformations and annealing in inorganic crystals.
- Dimopoulos, Haralambo (T. J. Hanratty, Adviser), Wall shear stress distribution for flow around a circular cylinder: $60 < Re < 340$.
- Dines, Martin B. (W. H. Pirkle, Adviser), I. Aspects of 2-pyrene chemistry, II. aryl sulfonyl halides as electrophilic reagents.
- Douthart, Richard J. (V. A. Bloomfield, Adviser), Hydrodynamic studies of nucleic acid and virus structure.
- Dugre, Donald H. (R. S. Drago, Adviser), Extended Hückel calculations of C¹³-H spin-spin coupling constants.
- Epley, Troyl D. (R. S. Drago, Adviser), Calorimetric studies of hydrogen-bonded adducts.
- Fitzgerald, Ronald J. (R. S. Drago, Adviser), Electron delocalization in paramagnetic nickel (II)-amine complexes.
- Foglesong, Rosalina S. (D. E. Applequist, Adviser), The 2-bromocyclohexyl radical.
- Foglesong, William D., Jr. (J. E. Baldwin, Adviser), The 8,9-dehydro-2-adamantyl cation.
- Forsberg, John H. (T. Moeller, Adviser), Observations on the rare earths: studies of ethylenediamine complexes of the lanthanide ions.
- Friedland, Joan M. (G. Weber, Adviser), Studies on the reversible denaturation and subunit structure of bacterial luciferase.
- Gahan, Linda C. (H. E. Conrad, Adviser), The *de novo* biosynthesis of glycogen in *aerobacter aerogenes*.
- Gass, David M. (R. A. Marcus, Adviser), Fluctuation form of transport theory and its applications.
- Goon, David J. (S. G. Smith, Adviser), Leaving group effects in solvolysis reactions, secondary deuterium isotope effects.
- Gore, Ernest S. (H. S. Gutowsky, Adviser), The effects of quadrupole relaxation on high resolution and pulsed NMR.
- Hansen, John R. (H. S. Gutowsky, Adviser), Double resonance studies of nuclear spin relaxation.

- Herrin, Thomas R. (K. L. Rinehart, Adviser), Synthesis of streptolydigin analogs.
- Hetzl, Donald S. (D. Y. Curtin, Adviser), Hindered rotation in diarylcycloalkanes.
- Hill, James C. (R. S. Drago, Adviser), A study of Lewis acid-base interactions, Part I-A Sn(119) Mössbauer and Sn(119) NMR study of the 1:1 Lewis base adducts of trimethyltin chloride, Part 2-A Calorimetric, and F(19), B(11), and H(1) NMR study of the Lewis base adducts of boron trifluoride.
- Holubec, Zenowie M. (D. Y. Curtin, Adviser), Conformational studies in some 9-methylene-9,10-dihydroanthracenes.
- Hyatt, David E. (L. J. Todd, Adviser), The synthesis, characterization and chemistry of *c*-alkylamine derivatives of $B_{10}CH_{13}$ and $B_{10}CH_{11}$.
- Kemp, Marwin K. (W. H. Flygare, Adviser), Microwave spectroscopic studies in small ring compounds; 1-methylcyclopropene and ethylamine.
- Kirsch, Joseph L., Jr. (T. L. Brown, Adviser), Nuclear quadrupole resonance spectroscopy of inorganic systems.
- Klainer, Jeremy A. (N. J. Leonard, Adviser), Reactions of small and medium ring heterocycles.
- Koser, Gerald F. (W. H. Pirkle, Adviser), Investigations of the photochemical reactions of 3,5-Di-*t*-butylbenzene-1,4-diazoxide and hindered Spiro[2.5]octa-4,7-dien-6-ones.
- Lane, Arthur L. (R. A. Marcus, Adviser), Vacuum ultraviolet photochemistry of propane above and below ionization.
- Larson, Richard A. (K. L. Rinehart, Adviser), Structural and biosynthetic studies of nybomycin.
- Lee, James T., Jr. (P. A. Beak, Adviser), Thermodynamic studies of model imidate-amide equilibria.
- Lee, Wen-Hui (G. J. Schroepfer, Jr., Adviser), Studies on the biosynthesis of cholesterol.
- Lehmkuhl, George D. (H. G. Drickamer, Adviser), Flow and mass transfer near a rotating disk.
- Leung, Mary K. (T. Moeller, Adviser), Studies of isopropylamino derivatives of 1,1-diphenylphosphonitrilic chloride trimer.
- Lewis, George K. (H. G. Drickamer, Adviser), High pressure Mössbauer studies of the electronic states of iron compounds.
- Lewis, Harlan L. (T. L. Brown, Adviser), Colligative property and NMR studies of alkyl lithium-base interactions.
- Lipp, Hayden I. (D. E. Applequist, Adviser), Studies toward the synthesis of the pentaprismane (hexacyclo[4.4.0^{1,4}.0^{2,5}.0^{3,6}.0^{4,7}.0^{5,8}.0^{6,9}].decane) system.
- Little, John L. (L. J. Todd, Adviser), Some chemistry of carbaphosphoranes.
- Magnuson, Vincent R. (G. D. Stucky, Adviser), Structural chemistry of group II and III organometallic complexes.
- Mampaey, Carl L. (D. Y. Curtin, Adviser), *N*-acyl-*n*-alkyl-*n*-aryltriazenes.
- McDaniel, Mildred C. (J. E. Baldwin, Adviser), Part I. Stereochemistry of electrocyclic reactions. Part II, the crystal and molecular structure of the adduct from *N*-(*p*-bromobenzyl)isoquinolinium bromide and carbon disulfide.
- McKendry, Lennon H. (W. H. Pirkle, Adviser), Reactions of 2-pyrone and its photo-products.
- Messer, Wayne R. (P. A. Beak, Adviser), Photochemistry of diazoles.
- Moores, Brian W. (R. L. Belford, Adviser), Electron paramagnetic resonance study of bonding in a low-symmetry copper(II) chelate.
- Murrell, Lawrence L. (T. L. Brown, Adviser), Part I. Exchange reactions of methylmercury halides and methylmercury pseudohalides. Part II. Exchange reactions of some group III organometallic compounds.
- Niblack, John F. (I. C. Gunsalus, Adviser), Host suppression of *Pseudomonas* phage pfl mutations.
- Nowak, Anthony V. (H. V. Malmstadt, Adviser), A selective gas-chromatographic detector utilizing emitted radiation from a sensitized flame.
- Prensner, Douglas S. (J. A. Quinn, Adviser), Experimental observations on thermal convection in confined gas layers.
- Propp, Jacob H. (H. A. Laitinen, Adviser), Electrochemical reduction products of Cr(VI) in molten LiCl-KCl eutectic.
- Rivers, Prince (D. E. Applequist, Adviser), Preparation and resolution of an optically active adamantane.
- Root, Ronald B. (R. A. Schmitz, Adviser), an experimental study of steady state multiplicity and stability in a loop reactor.
- Rose, Gene D. (J. A. Quinn, Adviser), Composite membranes: the permeation of gases through deposited monolayers.
- Rowley, David A. (R. S. Drago, Adviser), Electronic structure of tetragonal nickel(II) complexes.
- Scholer, Fred R. (L. J. Todd, Adviser), The synthesis, characterization, and chemistry of $B_{10}H_{12}CH^-$, $B_{10}H_{10}CH^-$ and their derivatives.
- Shaw, Vernon R. (R. S. Juvet, Jr., Adviser), Solute-solvent interactions of metal chlorides in alkali metal tetrachloroaluminate via gas chromatography.
- Shelt, Keith R. (J. M. Clark, Jr., Adviser), A proton exchange between purines and water and its application to biochemistry.
- Shepherd, Sandra A. (R. F. Nystrom, Adviser), Pyrolytic radiogas chromatography of carbon-14 and tritium labeled 1-hexenes.
- Sherwood, Peter J. (H. A. Laitinen, Adviser), Charge separation and its effect on the electro-reduction of bis(diethylenetriamine)cobalt (III).
- Siegwarth, David P. (T. J. Hanratty, Adviser), Effect of free convection on laminar flow through a horizontal pipe.
- Son, Jaime S. (T. J. Hanratty, Adviser), Experimental and computational studies of flow around a circular cylinder.
- Tapscott, Robert E. (R. L. Belford, Adviser), Characterization and stereochemistry of the vanadyl(IV) tartrate complexes.
- Thomas, John A. (L. P. Hager, Adviser), Studies on the mechanism of the halogenation reactions catalyzed by chloroperoxidase.
- Vander Hart, David L. (H. S. Gutowsky, Adviser), NMR line shape and moment analyses for a spin-1/2 nucleus in polycrystalline, rigid lattice, axially symmetric systems.
- Woodmansee, Donald E. (T. J. Hanratty, Adviser), Atomization from a flowing horizontal water film by a parallel air flow.
- Zumdahl, Steven S. (R. S. Drago, Adviser), Experimental and theoretical studies of inorganic reactions. Part 1—studies of the Ligand exchange reactions of Co(II) com-

plexes by nuclear magnetic resonance techniques. Part 2 — molecular orbital studies of the *trans* influence phenomenon and the kinetic *trans* effect in platinum(II) complexes.

CHILDREN'S RESEARCH CENTER

SCOTT, KEITH G., Research Assistant Professor

Articles

With Marcia S. Scott

Research and theory in short-term memory. In *International review of mental retardation*, Vol. 3, ed. by Norman Ellis, Academic Press, N.Y., pp. 135-57.

Clustering with perceptual and symbolic stimuli in free recall. *J. Verbal Learn. and Verbal Behav.*, 6:864-66. 1967.

With M. Christy

Dependent measures of children's discrimination learning. *Psychonomic Sci.*, 1968, 12: 53-54.

SCOTT, MARCIA S., Research Associate

Articles

With K. G. Scott

Research and theory in short-term memory. In *International review of mental retardation*, vol. 3, ed. by Norman Ellis, Academic Press, N.Y., pp. 135-57.

SHRINER, THOMAS H., Assistant Professor of Speech and Children's Research Center

Articles

With L. Miner

Morphological structures in the language of disadvantaged and advantaged children. *J. Speech Hearing Res.*, 11:605-10.

With W. R. Zemlin, R. G. Daniloff

The difficulty of listening to time-compressed speech. *Ibid.*, pp. 875-81.

Intelligibility of vowels altered in duration and frequency. *J. Acoust. Soc. Amer.*, 44: 700-707.

SPRAGUE, ROBERT L., Associate Professor of Psychology and Director, Children's Research Center

Articles

With M. A. Whitman

Learning and distractibility in normals and retardates. *Training Sch. Bull.*, 65:89-101.

STEINMAN, WARREN M., Research Assistant Professor

Articles

Response rate and varied reinforcement: reinforcers of different strengths. *Psychonomic Sci.*, 10:37-38.

Response rate and varied reinforcement: reinforcers of similar strengths. *Ibid.*, pp. 35-36.

The strengthening of verbal approval in retardates of discrimination training. *J. exp. Child Psychol.*, 6:100-112.

With C. M. Butter

Response rate, suppression, and extinction in septal rats. In *Proc., 76th ann. convention*, APA, pp. 277-78.

WERRY, JOHN S., Research Child Psychiatrist and Associate Professor of Psychiatry

Articles

The diagnosis, etiology and treatment of hyperactivity in children. In *Learning*

disorders, Vol. 3, ed. by Hellmuth, Special Child Publications, Seattle, pp. 171-90.

Two solitudes. *Canada's Mental Health*, 16: 4-7.

Studies on the hyperactive child IV: an empirical analysis of the minimal brain dysfunction syndrome. *Arch. Gen. Psychiatry*, 19:9-16.

Developmental hyperactivity. *Ped. Clinics N. Amer.*, 15:581-99.

With R. Paine, H. C. Quay

A study of "Minimal Cerebral Dysfunction." *Devel. Med. and Child Neurol.*, 10:505-20.

With S. Kardash, E. S. Hillman

Efficacy of imipramine in childhood enuresis: a double-blind control study with placebo. *Canadian Med. Assoc. J.*, 99:263-66.

CIVIL ENGINEERING

ACKERMANN, WILLIAM C., Professor

Articles

Effects of water quality standards on the nation. *Water — 1968, Chem. Eng. Progress Symp. Series*, 64:122-25.

AMIN, MOHAMMAD, Assistant Professor

Articles

With A. H.-S. Ang

Nonstationary stochastic model of earthquake motions. *Proc. ASCE*, 94, EM2: 559-83.

Reliability of structures and structural systems. *Ibid.*, pp. 671-91.

ANG, ALFREDO H.-S., Professor

Articles

With L. A. Lopez

Discrete model analysis of elastic-plastic plates. *Proc. ASCE*, 94, EM1:271-93.

With M. Amin

Nonstationary stochastic model of earthquake motions. *Ibid.*, EM2:559-83.

Reliability of structures and structural systems. *Ibid.*, pp. 671-91.

With E. Faccioli

A discrete eulerian model of spherically symmetric compressible media. *J. Computational Phys.* 3, Oct. pp. 226-58.

With G. C. Chang

Numerical calculation of inelastic plane soil-structure interaction. In *Proc. intl. symp. on wave propagation and dynamic properties of earth materials*, Univ. N. Mex. Press, Albuquerque, pp. 393-410.

AUSTIN, JOHN H., Associate Professor

Books Edited

Waste disposal from water and wastewater treatment processes. *Tenth Sanitary Eng. Conf. Proc.*, May 1968, Univ. Ill., Urbana, 148 pp.

Correspondence course manual for water plant operators — Class D. South Carolina Water and Pollution Control Association, 327 pp.

Correspondence course manual for water plant operators — Class D. Assignments and tests. *Ibid.*, 72 pp.

Articles

With R. S. Engelbrecht, M. Chaudhuri, M. Goodrich

Staining of free-living nematodes by alcoholic eosin-Y dye. *J. Amer. Water Works Assn.*, 60:481-84.

With R. S. Engelbrecht

Ecological changes in a polluted environment. In *Advances in water quality improvement*, ed. by Gloyna and Eckenfelder, Univ. Texas Press, Austin, Water Resources Symp., No. 1, pp. 9-20.

BAERWALD, JOHN E., Professor

Articles

ITE technical activities. *Traf. Eng.*, 38, 9:9.

CHAUDHURI, MALAY, Instructor

Articles

With R. S. Engelbrecht, J. H. Austin, M. Goodrich

Staining of free-living nematodes by alcoholic eosin-Y dye. *J. Amer. Water Works Assn.*, 60:481-84.

With R. S. Engelbrecht

Eriochrome cyanine R method for aluminum determination. *Ibid.*, 5:618.

CHILTON, ARTHUR B., Professor

See Nuclear Engineering.

CHOW, VEN TE, Professor

Articles

R & D of a watershed experimentation system. *JETS J.*, 15, 6:11-13.

Hydrologic systems for water resources management. *Conf. Proc.*, Water Resources Research Institute, Clemson Univ., Clemson, S.C., 4:8-22.

Center of applied hydrology in Brazil. *Nature and Resources*, 4, 2:16-17.

CORDING, EDWARD J., Assistant Professor

Articles

Stability of large underground openings at the Nevada test site. In *Second space age facilities conf.*, ASCE, pp. 389-427.

DAVISSON, MELVIN T., Associate Professor

Articles

With J. R. Salley

Lateral load tests on drilled piers. *ASTM Spec. Tech. Pub.* 444:68-83.

With A. H. Hunter

Measurements of pile load transfer. *Ibid.*, pp. 106-17.

With V. J. McDonald

Energy measurements for a diesel hammer. *Ibid.*, pp. 295-337.

DEERE, DON U., Professor

Articles

Investigation of changed conditions. In *National conference on construction contracts*, ASCE, May 25-26, 1967, pp. 50-53.

Geological considerations. In *Rock mechanics in engineering practice*, ed. by Stagg and Zienkiewicz, John Wiley and Sons, London, pp. 1-20.

DICK, RICHARD I., Associate Professor

Articles

A review of the literature of 1967 on wastewater and water pollution control — sludge treatment, disposal and utilization. *J. Water Poll. Cont. Fed.*, 40, 6:955-66.

Discussion closure to evaluation of activated sludge thickening theories. *Proc. ASCE*, 94, SA6:1280-87.

With J. C. Gratteau

Activated sludge suspended solids determinations. *Water and Sew. Wks.*, 115:468-72.

ENGELBRECHT, RICHARD S., Professor

Articles

With S. K. Banerji, B. B. Ewing, R. E. Speece
Mechanism of starch removal in the activated sludge process. *J. Water Poll. Cont. Fed.*, 40:16-29.

Kinetics of removal of starch in activated sludge systems. *J. Water Poll. Cont. Fed.*, 40:161-74.

With C. F. Walters, R. E. Speece

Microbial substrate storage in activated sludge. *Proc. ASCE*, 94, SA2:257-69.

With J. H. Austin

Ecological changes in a polluted environment. In *Advances in water quality improvement*, ed. by Gloyna and Eckenfelder, Univ. Texas Press, Austin, Water Resources Symp. No. 1, pp. 9-20.

With J. H. Austin, M. Chaudhuri,

M. Goodrich

Staining of free-living nematodes by alcoholic eosin-Y dye. *J. Amer. Water Works Assn.*, 60:481-84.

With M. Chaudhuri

Eriochrome cyanine R method for aluminum determination. *Ibid.*, 5:618.

EWING, B. B., Professor

Articles

With R. S. Engelbrecht, S. K. Banerji, R. E. Speece

Mechanism of starch removal in the activated sludge process. *J. Water Poll. Cont. Fed.*, 40:16-29.

Kinetics of removal of starch in activated sludge systems. *Ibid.*, pp. 161-74.

FENVES, STEVEN J., Professor

Articles

Digital computers in structural engineering. In *Structural engineering handbook*, ed. by E. H. Gaylord and C. N. Gaylord, McGraw-Hill Book Co., N.Y., pp. 2-1 to 2-14.

GAYLORD, EDWIN H., Professor

Books Edited

With C. N. Gaylord

Structural engineering handbook. McGraw-Hill Book Co., N.Y., 1192 pp.

Articles

With E. W. Wright

Analysis of unbraced multistory steel rigid frames. *Proc. ASCE*, 94, ST5:1143-63.

With W. H. McVinnie

Inelastic buckling of unbraced space frames. *Ibid.*, ST8:1863-85.

GURFINKEL, GERMAN R., Associate Professor

Articles

Assembly Hall, University of Havana. *J. ACI*, 65, 1:20-28.

Telai multipiani prefabricati per edifici Universitaria a Cuba. *Rivista L'Industria Italiana del Cemento*. Anno 38, 4:272-74.

Discussion: plastic design by moment balancing. *Eng. J. AISC*, 5, 2:79-81.

With C. P. Siess

Longitudinally restrained reinforced concrete beams. *Proc. ASCE*, 94, ST3:709-35.

HALL, WILLIAM J., Professor

Articles

Transportation structures. *High Speed Ground Trans. J.*, II:2, pp. 282-302.

With N. E. Funston

Discussion closure: Footing vibration with nonlinear subgrade support. *Proc. ASCE*, 94, SM6:1384-85.

HAY, WILLIAM W., Professor

Articles

What's wrong with railroad recruiting and how to improve it. *AREA Bull.* 617 (Part 2), pp. 593-600.

HENDRON, ALFRED J., JR., Associate Professor

Articles

Mechanical properties of rocks. In *Rock mechanics in engineering practice*, ed. by K. G. Staggs and O. C. Zienkiewicz, John Wiley and Sons, London, pp. 21-53.

With N. N. Ambraseys

Dynamic behavior of rock masses. *Ibid.*, pp. 203-36.

With H. E. Auld

The effect of soil properties on the attenuation of airblast-induced ground motions. In *Proc. intl. symp. on wave propagation and dynamic properties of earth materials*, Univ. N. Mex. Press, Albuquerque, pp. 29-47.

Discussion of wave propagation in earth materials. *Ibid.*, pp. 94-98.

HERRIN, MORELAND, Professor

Articles

With A. G. Bahget

Brittle fracture of asphaltic mixes. *Proc. Assn. Asphalt Paving Technologists*, 37: 32-55.

With C. R. Marek

Tensile behavior and failure characteristics of asphalt cement in thin films. *Ibid.*, pp. 386-421.

Bulletins and Technical Reports

With C. R. Marek, K. Majidzadeh

State of the art: surface treatments—summary of existing literature. *Highway Res. Bd. Special Report 96*, 98 pp.

HILSDORF, HUBERT K., Professor

Articles

Drying and shrinkage of concrete. In *Anniversary volume honoring Dr. H. Rusch*, Verlag Wilhelm Ernst und Sohn, Munich, pp. 2-14.

IRELAND, HERBERT O., Professor

Articles

Retaining structures and foundations. In *Structural engineering handbook*, ed. by E. H. Gaylord and C. N. Gaylord, McGraw-Hill Book Co., N.Y., pp. 5-46 to 5-91.

KARARA, HOUSSAM M., Professor

Articles

With D. E. Moellman

Close-range photogrammetry data reduction scheme. *Proc. ASCE*, 94, SU2:211-26.

KESLER, CLYDE E., Professor

See Theoretical and Applied Mechanics.

KHACHATURIAN, NARBEGY, Professor

Articles

With N. W. Krahl, C. P. Siess

Discussion: Analysis of inclined cracking shear in slender reinforced concrete beams. *J. ACI*, 65:335-41.

KRISHNA, PREM, Assistant Professor

Articles

Experiments on the wire model of suspended cable structure. *J. Inst. Engrs. India*, 48, 5, C13:870-78.

With S. R. Sparkes

Analysis of pretensioned cable systems. *Proc. Inst. Civ. Engrs.*, London, 39:103-9.

An influence coefficient method for pretensioned cable systems. *Proc. Inst. Civ. Engrs.*, London, 41:543-48.

With P. R. Natraian

Analysis of doubly curved suspended cable roof networks. *Bull. Intl. Assn. Shell Structures*, 34:49-67.

LIU, THOMAS K., Associate Professor

Articles

A review of engineering soil classification systems. *Highway Res. Bd.*, 156:1-22.

Discussion: Statistical analysis of density tests, by R. A. Pettitt. *Proc. ASCE*, 94, HW2:274-76.

LOPEZ, LEONARD A., Assistant Professor

Articles

With A. H.-S. Ang

Discrete model analysis of elastic-plastic plates. *Proc. ASCE*, 94, EM1:271-93.

MAREK, CHARLES R., Assistant Professor

Articles

With M. Herrin

Tensile behavior and failure characteristics of asphalt cements in thin films. *Proc. Assn. Asphalt Paving Technologists*, 37: 386-421.

Bulletins and Technical Reports

With M. Herrin, K. Majidzadeh

State of art: surface treatments—summary of existing literature. *Highway Res. Bd. Special Report 96*, 98 pp.

MAXWELL, W. HALL C., Assistant Professor

Articles

Splashing of drops on shallow liquids. *Science*, 160, May 24:907.

Discussion: Energy loss at pipe junctions. *Proc. ASCE*, 94, IR2:280-82.

Discussion: The accuracy of calibration of model gauging structures. *Proc. Inst. Civ. Engrs.*, London, 40, July:397-98.

MCDONALD, VINCENT J., Associate Professor

Articles

With M. T. Davissom

Energy measurements for a diesel hammer. *ASTM Special Tech. Pub.* 444:295-337.

MEREDITH, DALE D., Assistant Professor

Articles

Water systems modeling. In *Analysis of water and water-related research requirements in the Great Lakes region*, by Council on Economic Growth, Technology, and Public Policy of the Committee on Institutional Cooperation, for the Director, Office of Water Resources Research, Dept. Interior, Wash., D.C., June 1968, pp. 61-77.

MUNSE, WILLIAM H., Professor

Articles

Fatigue and brittle fracture. In *Structural engineering handbook*, ed. by E. H. Gay-

- lord and C. N. Gaylord, McGraw-Hill Book Co., N.Y., pp. 4-1 to 4-19.
- Significance of structural fatigue. *ASCE, Structural Div. Preprint 587*, 10 pp., 1967.
- Static and fatigue tests of bolted connections coated with Dimetocote 5 and 6. *Corrosion Control Reporter*, Amercoat Corporation, 19, 2:2-5.
- Discussion: fatigue properties of materials, by E. G. Eelis and R. C. A. Thurston. *Ocean Engineering*, 1, 2:189-95.
- With K. H. Lenz, B. T. Yen, G. E. Nordmark, J. T. P. Yao
Analysis and interpretation of fatigue data. *Proc. ASCE*, 94, ST12:2665-77.
- With R. D. Sunbury, R. S. Foundation
Specifications and design relations. *Ibid.*, pp. 2751-67.
- Bulletins and Technical Reports**
With A. T. Derecho
Stress concentration at external notches in members subjected to axial loadings. *Univ. Ill. Eng. Exp. Sta. Bull.*, 494, 51 pp.
- With J. E. Stallmeyer, F. P. Drew
Structural fatigue and steel railroad bridges. *Proc. AREA Seminar*, AREA, 152 pp.
- With J. P. Cannon, J. F. Kiefner
Effect of repeated loads on the low temperature fracture behavior of notched and welded plates. Ship Structure Committee, Wash., D.C., SSC-188, 24 pp.
- MURPHREE, EDWARD LILE, JR.**, Assistant Professor
- Articles**
With D. V. Reddy
Ultimate load analysis of edge-loaded foundation slabs. *The Structural Eng., Inst. Struc. Engrs.*, London, 46, 1:13-16.
- NEWMARK, NATHAN M.**, Professor and Head of Department
- Articles**
Earthquake-resistant building design. In *Structural engineering handbook*, ed. by E. H. Gaylord and C. N. Gaylord, McGraw-Hill Book Co., N.Y., pp. 3-1 to 3-30.
- Civil engineering. (Science year in review section.) 1969 *Britannica yearbook of science and the future*, Encyc. Britannica Inc., Chicago, pp. 299-300.
- Problems in wave propagation in soil and rock. In *Proc. intl. symp. on wave propagation and dynamic properties of earth materials*. Univ. New Mex. Press, Albuquerque, pp. 7-26.
- Bulletins and Technical Reports**
With G. W. Housner, T. Hisada, others
Aseismic design and testing of nuclear facilities. (Report of Panel, Tokyo, 12-16 June 1967), *Intl. Atomic Energy Agency Tech. Rpts.*, Series No. 88, Vienna, 49 pp.
- With M. A. Sozen, P. C. Jennings, R. B. Mattiesen, G. W. Housner
Engineering report on the Caracas earthquake of 29 July 1967. Committee on Earthquake Eng. Res., Div. Eng., Natl. Res. Council—Natl. Acad. Eng., published by National Academy of Sciences, Wash., D.C., 217 pp.
- NIELSEN, NORBY N.**, Associate Professor
- Articles**
Results of recent vibration studies in the U.S.A. *J. Arch. and Building Sci.*, Architectural Institute of Japan, 83:503-6.
- OLSON, ROY E.**, Professor
- Articles**
With J. F. Parola
Dynamic shearing properties of compacted clay. In *Proc. intl. symp. on wave propagation and dynamic properties of earth materials*, Univ. N. Mex. Press, Albuquerque, pp. 173-82.
- PAUL, STANLEY L.**, Assistant Professor
- Articles**
With M. A. Sozen
Structural behavior of a small-scale prestressed concrete reactor vessel. *Nuclear Engineering and Design*, 7, 6:15.
- PECK, RALPH B.**, Professor
- Articles**
Problems and opportunities—technology's legacy from the quaternary. In *Proc. intl. symp. on the quaternary of Illinois*, Univ. Ill. Coll. Agr. Spec. Pub. 14, pp. 138-44.
- PFEFFER, JOHN T.**, Associate Professor
- Articles**
Increased loadings on digesters with recycle of digested solids. *J. Water Poll. Cont. Fed.*, 40:1920-33.
- With F. C. Hart, L. A. Schmid
Field evaluation of aerators in activated sludge systems. *Water and Sew. Wks.*, 115:519-24.
- RICHARDS, ADRIAN F.**, Professor
See Geology.
- ROBINSON, ARTHUR R.**, Professor
- Articles**
With R. N. Wright, S. R. Abdel-Samad
BEF analogy for analysis of box girders. *Proc. ASCE*, 94, ST7:1719-43.
- Analysis of box girders with diaphragms. *Ibid.*, ST10:2231-56.
- With H. H. West
Continuous method of suspension bridge analysis. *Ibid.*, ST12:2861-82.
- SIESS, CHESTER P.**, Professor
- Articles**
With R. E. Woodring
Influence surfaces for continuous plates. *Proc. ASCE*, 94, ST1:211-26.
- With G. Gurfinkel
Longitudinally restrained reinforced concrete beams. *Ibid.*, ST3:709-35.
- With A. Atlas, C. E. Kesler
Control of cracking in slabs reinforced with welded wire fabric. *ACI Pub. SP-20*, pp. 205-9.
- With N. W. Krahl, C. P. Siess
Discussion: Analysis of inclined cracking shear in slender reinforced concrete beams. *J. ACI*, 65:335-41.
- Bulletins and Technical Reports**
Criteria for selection and design of residential slabs-on-ground. *Special Advisory Committee of BRAB*, BRAB, 1571, Natl. Acad. Sciences, 288 pp.
- SOZEN, METE A.**, Professor
- Articles**
The Caracas earthquake of 29 July 1967. *ACI J.*, 65, 5:394.
- With S. L. Paul
Structural behavior of a small-scale pre-

- stressed concrete reactor vessel. *Nucl. Eng. and Design*, 7, 6:15.
- With *W. A. Welsh, Jr.*
Analysis and control of Anchorage-zone cracking in prestressed concrete. *Univ. Ill. Eng. Exp. Sta. Bull.* 493, 77 pp.
- STALLMEYER, JAMES E., Professor**
- Articles
With *W. H. Walker*
Cumulative damage theories and application. *Proc. ASCE*, 94, ST12:2739-50.
- Bulletins and Technical Reports
With *W. H. Munse, F. P. Drew*
Structural fatigue and steel railroad bridges. *Proc. AREA Seminar*, 152 pp.
- THOMPSON, MARSHALL R., Associate Professor**
- Articles
Lime treated soils for pavement construction. *Proc. ASCE*, 94, HW2:191-217.
- With *B. J. Dempsey*
Durability properties of lime-soil mixtures. *Highway Res. Bd. Record No. 235*, Natl. Res. Coun., Natl. Acad. Sci., — Natl. Acad. Eng., pp. 61-75.
- THORBURN, THOMAS H., Professor**
- Articles
Soil exploration. In *Structural engineering handbook*, ed. by E. H. Gaylord and C. N. Gaylord, McGraw-Hill Book Co., N.Y., pp. 5-24 to 5-45.
- WALKER, WILLIAM H., Associate Professor**
- Articles
With *J. E. Stallmeyer*
Cumulative damage theories and application. *Proc. ASCE*, 94, ST12:2739-50.
- Bulletins and Technical Reports
Model studies of the dynamic response of a multigirder highway bridge. *Univ. Ill. Eng. Exp. Sta. Bull.* 495, 207 pp.
- WENZEL, HARRY G., JR., Assistant Professor**
- Bulletins and Technical Reports
A critical review of methods of measuring discharge within a sewer pipe. *ASCE Urban Water Resources Res. Program Tech. Memor No. 4*, 20 pp.
- WORTMAN, ROBERT H., Instructor**
- Articles
With *L. A. Webster*
Headlight glare as related to lateral vehicle separation. In *Proc. symp. on visibility in the driving task*, Texas A. & M. Univ. College Station, pp. 130-44.
- With others
Headlight glare. Bibliography No. 46, Highway Res. Bd., Wash., D.C., 60 pp.
- With *L. A. Webster, F. R. Yeatman*
An investigation of headlight glare as related to lateral separation of vehicles. *Univ. Ill. Eng. Exp. Sta. Bull.* 496, 113 pp.
- WRIGHT, RICHARD N., Associate Professor**
- Articles
With *W. C. Gustafson*
Analysis of skewed composite girder bridges. *Proc. ASCE*, 94, ST4:919-41.
- With *S. R. Abdel-Samad, A. R. Robinson*
BEF analogy for analysis of box girders. *Ibid.*, ST7:1719-43.
- Analysis of box girders with diaphragms. *Ibid.*, ST10:2231-56.
- YEN, BEN C., Assistant Professor**
- Articles
Discussion: River hydraulics (the role of secondary currents), by H. A. Einstein. *Proc. 12th Cong. IAHR*, 5:200.
- Discussion: The effect of bend on the distribution and development of the macroturbulence intensity in open channel beds, by E. Masair. *Ibid.*, pp. 284-85.
- Discussion: The analysis of secondary flow in bends of open channels, by J. A. Fox and D. J. Ball. *Proc. Inst. Civ. Engrs.*, London, 40:582-83.
- DOCTORAL DISSERTATIONS**
- Bultmann, Edward H., Jr. (N. M. Newmark, Adviser), The response of buried cylinders to dynamic loading.
- Davis, Mackenzie L. (R. S. Engelbrecht, Adviser), Modeling urban atmospheric temperature profiles.
- Carter, Robert L. (A. R. Robinson, Adviser), Free and forced vibrations of hyperboloidal shells of revolution.
- Cowan, Bruce M. (N. M. Newmark, Adviser), An analysis of circular cylindrical shells surrounded by an elastic foundation.
- El-Din, Mohamed K. (W. W. Hay, Adviser), Evaluation of the factors affecting capacity and operating efficiency of gravity-type railroad classification yards.
- Enriquez, Alex C. (M. A. Sozen, Adviser), Strength and behavior of isotropically and nonisotropically reinforced slabs subjected to combinations of flexural and torsional moments.
- Faccioli, Ezio (A. H.-S. Ang, Adviser), A discrete Eulerian model for spherical wave propagation in compressible media.
- Fedorkiw, James P. (M. A. Sozen, Adviser), Analysis of reinforced concrete frames with filler walls.
- Fisher, James M. (J. E. Stallmeyer, Adviser), Applicability of course grid sandwich construction for use as beam webs.
- Gates, Richard H. (D. U. Deere, Adviser), Inelastic analysis of slopes by the finite element memo.
- Gonzales-Caro, Alfonso (S. J. Fenves, Adviser), A network-topological formulation of the analysis and design of rigid-plastic framed structures.
- Hall, Millard W. (R. S. Engelbrecht, Adviser), Uptake of soluble phosphate by activated sludge.
- Howeedy, Mohamed F. (W. W. Hay, Adviser), Behavior of bituminous aggregate mix for use in railroad track.
- Iten, Robert M. (N. M. Newmark, Adviser), Behavior of missile silo closures designed to resist high overpressures.
- Jordan, Roger M. (B. B. Ewing, Adviser), Destabilization-aggregation of dilute colloidal suspensions by polyelectrolytes.
- Kinra, Ravindar K. (S. J. Fenves, Adviser), A computer-aided system for the analysis, design and checking of concrete structures.
- Kothandaraman, Veerasamy (B. B. Ewing, Adviser), A probabilistic analysis of dissolved oxygen-biochemical oxygen demand relationship in streams.
- Lai, John Y. (H. O. Ireland, Adviser), Effects of compressibility, permeability and void

ratio variations on the classical theory of consolidation.

Levey, James R. (M. Herrin, Adviser), A method for determining the effects of random variations in material properties on the behavior of layered systems.

Lloyd, John P. (C. E. Kesler, Adviser), Behavior of one-way flexural slabs reinforced with deformed wire and deformed wire fabric.

Marcus, Nachman (V. T. Chow, Adviser), A laboratory and analytical study of surface runoff under moving rainstorms.

Meredith, Dale D. (V. T. Chow, Adviser), Benefit analysis of hydroeconomic simulation.

Oba, Jorge I. (A. H.-S. Ang, Adviser), On the reliability analysis of statically indeterminate structural systems.

Pecknold, David A. (W. C. Schnobrich, Adviser), Finite element analysis of skewed shallow shells.

Prasad, Triyugi (V. T. Chow, Adviser), Hydrologic analysis of watersheds as stochastic systems.

Prendergast, James D. (W. J. Hall, Adviser), Evaluation of the 4-foot-diameter, 1500-kip-capacity dynamic load generator.

Rao, Ramachandra A. (V. T. Chow, Adviser), Nonlinear analysis of the rainfall-runoff process.

Rohmaller, Paul L. (W. J. Hall, Adviser), Arching effect for underground rectangular structures subjected to high static pressure.

Sameh, Ahmed H. (A. H.-S. Ang, Adviser), Numerical analysis of axi-symmetric wave propagation in elastic-plastic layered media.

Schindler, Larry (R. B. Peck, Adviser), Design and evaluation of a device for determining the one-dimensional compression characteristics of soils subjected to impulse-type loads.

Webster, Lee A. (J. E. Baerwald, Adviser), A simulation study of the effect of curb parking maneuvers on midblock traffic delay on urban arterial streets.

Weggel, John R. (N. M. Newmark, Adviser), The impact pressures of breaking water waves.

CLASSICS

ALLEN, HUBERT L., Instructor

Reviews

Sicily: an archaeological guide, by Margaret Guido. *Class. J.*, 64:140-41.

BATEMAN, JOHN J., Professor and Head of Department

Reviews

The Poetry of Catullus, by C. H. Sisson. *Class. World* 61:254-55.

Vox Romana, A Latin Anthology, by James J. Carey. *Ibid.*, 62:63.

HELLER, JOHN L., Professor

Articles

Seneca *Epist.* 15.9. *Class. Philol.*, 63:54-55.

Linnaeus's Hortus Cliffortianus. *Taxon*, 17: 663-719.

Reviews

Vox Latina, by W. Sidney Allen. *Class. J.*, 62:87-91. 1967.

JACOBSON, HOWARD, Assistant Professor

Articles

Lucretius II, 178-81. *Mnemosyne*, n.s. 4, 20: 298-99.

Horace and Augustus: an interpretation of *Carm.* 1.35. *Class. Philol.*, 63:106-13.

NAOUMIDES, MARK, Associate Professor

Articles

New fragments of ancient Greek poetry. *GRBS*, 9, 3:267-90.

PERRY, BEN E., Professor Emeritus

Articles

Who was Lucius of Patrae? *Class. J.*, 64: 97-101.

SCANLAN, RICHARD T., Associate Professor

Articles

Changes in the CEEB AP Latin. *Class. World*, 62, 2:46.

WALLACH, LUITPOLD, Professor

Books

Alcuin and Charlemagne: Studies in Carolingian history and literature (2nd rev. and amended ed.). Cornell Univ. Press and Johnson Reprint Corp., N.Y.-London, 335 pp.

Reviews

Karl der Grosse: Lebenswerk und Nachleben (vols. 3-4), ed. W. Braunsfels. *Amer. Hist. Rev.*, 74:132-33.

WOLVERTON, ROBERT E., Associate

Professor

Reviews

Before Olympos, a study of the Aniconic origins of Poseidon, Hermes and Eros, by Elmer G. Suhr. *Class. J.*, 63, 8:370-71.

DOCTORAL DISSERTATIONS

Shucard, Stephen C. (A. Tury, Adviser), The use of gnomes in Sophocles' poetry.

COMMUNICATIONS, INCLUDING COMMUNICATIONS RESEARCH

CAREY, JAMES W., Research Associate

Professor

See Journalism.

FISHBEIN, MARTIN E., Research Associate

Professor

See Psychology.

GUBACK, THOMAS H., Research Assistant

Professor

See Journalism.

JAKOBOVITS, LEON A., Research Associate

Professor

See Psychology.

MERRITT, RICHARD L., Research Associate

Professor

See Political Science.

OSGOOD, CHARLES E., Research Professor

See Psychology.

SIMON, RITA J., Research Professor

See Sociology.

WIGGINS, NANCY A., Research Assistant

Professor

See Psychology.

DOCTORAL DISSERTATIONS

Auer, Emma (S. W. Dunn, Adviser), The function of empathy as represented in trans-

actional models of communication: a test of professional and student advertising communicators.

Bayley, Richard B. (J. W. Jensen, Adviser), Freedom and regulation of the Russian periodical press, 1905-1914.

Coldeweih, Jack H. (H. S. Maclay, Adviser), The effects of mass media consumption on accuracy of beliefs about the candidates in a local congressional election.

Evans, James F. (T. B. Peterson, Adviser), B. D. Butler and the crusading years of *Prairie Farmer*-WLS.

Everly, Jack C. (T. B. Peterson, Adviser), Continuing education instruction via the mass media.

Foreman, Ronald C., Jr. (T. B. Peterson, Adviser), Jazz and race records, 1920-32; their origins and their significance for the record industry and society.

Fulton, Robert B. (H. S. Maclay, Adviser), Attitude change: a homeostatic model of the listener.

Kitson, John W. (C. H. Sandage, Adviser), Profile of a growth industry: American book publishing at mid-century, with an emphasis on the integration and consolidation activity between 1959 and 1965.

Martin, James E. (C. E. Osgood, Adviser), A study of the determinants of preferred adjective order in English.

Robinson, Gertrude J. (J. R. Gusfield, Adviser), Tanjug: Yugoslavia's multi-faceted national news agency.

Ryan, William D. (C. H. Sandage, Adviser), The development of the Federal Trade Commission's authority to regulate advertising.

Saunders, Lowell S. (H. J. Skornia, Adviser), The national religious broadcasters and the availability of commercial radio time.

Utz, Walter J., Jr. (H. S. Maclay, Adviser), The comparative effect of color and black and white film clips upon rated perception of reality.

Wilson, Noel A. (T. B. Peterson, Adviser), The Kansas City call: an inside view of the Negro market.

Winter, Willis L., Jr. (C. H. Sandage, Adviser), The metamorphosis of a newspaper: the *San Francisco Chronicle*, 1935-1965.

COMMUNITY PLANNING

FREUND, ERIC C., Associate Professor

Books

With W. I. Goodman

Principles and practice of urban planning. Intl. City Managers' Assn., Wash., D.C., 621 pp.

Articles

The history and philosophy of planning (second and last part). *Tenn. Planner*, 27, 3:81-89.

GUTTENBERG, ALBERT Z., Associate Professor

Articles

The social uses of city planning. *Plan Canada*, 9, 1:6-14.

Eine bedeutungen des begriffes "Sozial contra Physisch" in der Amerikanischen stadtplanung. *Informationen, Institute Fur Raumordnung, Bad Godesburg*, 18, 14: 411-22.

HANSEN, WILLARD B., Associate Professor

Articles

Quantitative methods in urban planning. In *Principles and practice of urban planning*, ed. by Goodman and Freund, Intl. City Managers' Assn., Wash., D.C., pp. 276-94.

Metropolitan planning and the new comprehensiveness. *J. Amer. Inst. Plan.*, 34, 5: 295-302.

HEIKOFF, JOSEPH M., Professor

Articles

Urban politics and planning. In *Ill. Municipal Rev.*, 47, 4:7-10; 40.

COMPARATIVE LITERATURE

ALDRIDGE, A. OWEN, Professor

See French.

FREY, JOHN R., Professor

See Germanic Languages and Literatures.

JOST, FRANÇOIS, Professor

See French.

KNUST, Herbert, Associate Professor

See Germanic Languages and Literatures.

MONTANO, ROCCO, Professor

See Spanish, Italian, and Portuguese.

DOCTORAL DISSERTATIONS

Johnson, Rorer B., Jr. (F. Jost, Adviser), Anatomy of a literary device: the included letter.

Smalley, Barbara M. (F. Jost, Adviser), The pattern of illusion: a correlative study in the novels of Flaubert and George Eliot.

COMPUTER SCIENCE

FAIMAN, MICHAEL, Assistant Professor of Computer Science

Articles

With W. J. Poppelbaum, D. Casasent, D. S. Sand

On-line Fourier transform of video images. *Proc. IEEE*, 56:1744-46.

FOSDICK, LLOYD D., Professor of Computer Science and Physics

Articles

The Monte Carlo method of quantum statistics. *SIAM Rev.*, 10, 3:315-28.

A special case of the filon quadrature formula. *Math. Computation*, 22, 101:77-81.

With H. F. Jordan

Three-particle effects in the pair distribution function for He⁴ gas. *Physical Rev.*, 171, 1:128-49.

Approximation of a conditional Wiener integral. *J. Computational Phys.*, 3, 1:1-16.

GEAR, CHARLES W., Professor of Computer Science and Applied Mathematics

Articles

The automatic integration of stiff ordinary differential equations. *Proc. Intl. Fed. Inf. Soc. 1968 Conf.*, pp. A81-A85.

Computer aided programming system. In *Emerging concepts in computer graphics*, ed. by Secrest and Nievergelt. W. A. Benjamin, Inc., N.Y., pp. 171-88.

IBARAKI, TOSHIHIDE, Research Associate

Articles

With S. Yajima

A theory of completely monotonic functions and its applications to threshold logic. *IEEE Trans. Computers, C-17*, 3:214-29.

Realization of arbitrary logic functions by completely monotonic functions and its applications to threshold logic. *Ibid.*, 4:338-51.

With S. Yajima, I. Kawano

On autonomous logic nets of threshold elements. *Ibid.*, 4:385-91.

KOGA, YOSHIKI, Research Associate

Articles

With H. Mine, T. Hasegawa

Asynchronous transmission schemes for digital information. *Proc. Hawaii Internl. Conf. Sys. Sci.*, pp. 772-75.

With K. A. Foster, H. Mine

Comments on "Basic properties and a construction method for fail-safe Logical systems." *IEEE Trans. Elec. Comp., C-17*, 7:702.

KUCK, DAVID J., Associate Professor of Computer Science

Articles

ILLIAC IV software and application programming. *IEEE Trans. Computers, C-17*, 8:758-70.

With G. Barnes, R. Brown, M. Kato,

D. Slotnick, R. Stokes

The ILLIAC IV computer. *Ibid.*, pp. 746-57.

MUROGA, SABURO, Professor of Computer Science and Electrical Engineering

Reviews

Threshold logic, by P. M. Lewis, II and C. L. Coates. *IEEE Spectrum*, July, p. 136.

NIEVERGELT, JURG, Associate Professor of Computer Science and Mathematics

Books Edited

With D. Secrest

Emerging concepts in computer graphics. *Proc. 1967 Univ. Ill. Conf.*, W. A. Benjamin, Inc., N.Y., 418 pp.

Articles

Computers and computing—past, present, future. *IEEE Spectrum*, 5, 1:57-61.

Hit-and-run on a graph. *J. Recr. Math.*, 1, 2:112-17.

PASTA, JOHN R., Professor of Computer Science and Physics; Head, Department of Computer Science

Articles

With E. A. Jackson, J. F. Waters

Thermal conductivity of one-dimensional lattices. *J. Computational Phys.*, 2, 3:207-27.

POPPELBAUM, WOLFGANG, Professor of Computer Science and Electrical Engineering

Articles

With M. Faiman, D. Casasent, D. S. Sand

On-line Fourier transform of video images. *Proc. IEEE*, 56, 10:1744-46.

With T. K. Koo

Optoelectronic switching matrix. *Proc. 1968 Microelectronics Symp.*, St. Louis, Mo., pp. C5-1-6.

RAY, SYLVIAN R. Associate Professor of Computer Science and Electrical Engineering

Articles

Prospects and problems in designing image oriented information systems. *Proc. 5th Ann. Clinic Library Applications Data Processing*, Univ. Ill., Urbana, 1967, pp. 8-28.

Design of an image oriented information retrieval system. *Proc. FID-IFIP Conf. Mechanized Inf. Storage, Retrieval, and Dissemination*, Rome, 1967, ed. by K. Samuelson, North-Holland Pub. Co., Amsterdam, pp. 692-711.

SAYLOR, PAUL E., Assistant Professor of Computer Science

Articles

A priori estimates for continuation problems for elliptic and principally normal differential equations. *Trans. Amer. Math. Soc.*, 135:860-88.

SLOTNICK, DANIEL L., Professor of Computer Science

Articles

With G. H. Barnes, R. M. Brown, M. Kato, D. J. Kuck, R. Stokes

The ILLIAC IV computer. *IEEE Trans. Computers, C-17*, 8:746-57.

SNYDER, JAMES N., Professor of Computer Science and Physics; Associate Head of Computer Science

Articles

With W. P. Trower, J. R. Ficenec, R. I. Hulsizer, J. Lathrop, W. P. Swanson
Some two-body final states of K-p interactions at 1.33 GeV/c*. *Physical Rev.*, 170, 5:1207-22.

With P. G. Kruger, W. B. Sampson

Progress in superconducting beam handling and accelerator structures since November 1966. *J. Appl. Phys.*, 39, 6:2633.

DOCTORAL DISSERTATIONS

Richardson, Fontaine K. (C. W. Gear, Adviser), Graphical specification of computation.

COORDINATED SCIENCE LABORATORY

ANNER, GEORGE E., Professor of Coordinated Science Laboratory and Professor of Electrical Engineering

See Electrical Engineering.

BOHMER, HEINRICH, Research Assistant Professor of Coordinated Science Laboratory and Assistant Professor of Physics

Articles

With T. Heumann

Diffusion des silbers in aluminium. *J. Phys. Chem. Solids*, 29:237.

With J. Chang, M. Raether

Generation of smeared out electron beams for experiments on weak plasma turbulence. *Rev. Sci. Instr.*, 39: 1873.

CHIEN, ROBERT T., Professor of Coordinated Science Laboratory and Professor of Electrical Engineering

See Electrical Engineering.

COMPTON, W. DALE, Professor of Physics and Director of Coordinated Science Laboratory

Articles

With R. J. Spry

Recombination luminescence in n-type Czochralski silicon. In *Lattice defects in semiconductors*, Univ. Tokyo Press, Japan, pp. 303-11.

Recombination luminescence of irradiated silicon. In *Radiation effects in semiconductors*, ed. by F. L. Vook, Plenum Pub. Corp., N.Y., pp. 421-34.

Recombination luminescence in irradiated silicon. *Phys. Rev.*, 175, 3:1010-20.

With R. A. Hewes

Recombination lifetimes in gamma-irradiated p-type float zone silicon. In *Lattice defects in semiconductors*, Univ. Tokyo Press, Japan, pp. 287-302.

With J. L. Boettler

Luminescent excitation spectra of F and M centers in KCl. *Phys. Rev.*, 173, 3:884-51.

CRUZ, JOSE B., JR., Research Professor of Coordinated Science Laboratory and Professor of Electrical Engineering

See Electrical Engineering.

FENVES, STEVEN J., Research Professor of Coordinated Science Laboratory and Professor of Civil Engineering

See Civil Engineering.

HADDAD, ABRAHAM H., Research Assistant Professor of Coordinated Science Laboratory and Assistant Professor of Electrical Engineering

Articles

On a class of step processes. *Proc. 2nd Ann. Princeton Conf. Info. Sci. and Sys.*, pp. 169-73.

Optimum filtering with a class of nonlinear systems. *IEEE Trans. Automatic Control*, AC-13, 3:289-92.

On a nonlinear feedback filtering system. *IEEE Trans. Info. Theory*, IT-14, 4:532-35.

Nonlinear prediction of a class of random processes. *Ibid.*, 5:664-68.

With J. B. Thomas

On optimal and suboptimal nonlinear filters for discrete inputs. *Ibid.*, 1:16-21.

Some aspects of zero-memory nonlinear filtering. *J. Franklin Institute*, 285, 2:98-109.

With P. V. Kokotović

Estimators for optimally sensitive systems. *Proc. IEEE*, 56, 8:1399-1400.

With J. B. Thomas, D. S. Kuykendall

Series approximations for optimum ZNL filters. *IEEE Trans. Circuit Theory*, CT-15, 3:201-5.

HICKS, BRUCE L., Research Professor of Coordinated Science Laboratory and Computer-based Education Research Laboratory; Professor of Aeronautical and Astronautical Engineering and Division of Social Studies

Articles

With Margaret A. Smith

On the accuracy of Monte Carlo solutions of the non-linear Boltzmann equation. *J. Computational Physics*, 3:58-79.

Bulletins and Technical Reports

With S. M. Yen

Calculations of the Boltzmann collision integrals to rarefied gas flow problems. *APS Bulletin*, 13, 11:1599.

Initial behavior of the pseudo-shock. *Ibid.*, 5:807.

JACKSON, E. ATLEE, Research Associate Professor of Coordinated Science Laboratory and Associate Professor of Physics

Books

Equilibrium statistical mechanics. Prentice-Hall, Englewood Cliffs, N.J., 241 pp.

Articles

With J. R. Pasta, J. F. Waters

Thermal conductivity of one-dimensional lattices. *J. Computational Phys.*, 2, 2: 207-27.

KOKOTOVIC, PETAR V., Visiting Research Associate Professor of Coordinated Science Laboratory and Visiting Associate Professor of Electrical Engineering
See Electrical Engineering.

LYMAN, ELISABETH R., Research Assistant Professor of Coordinated Science Laboratory and Computer-based Educational Research Laboratory

Articles

Computer-based education. *Ill. Sch. Bd. J.*, 35, 4:4-7.

LYMAN, ERNEST M., Research Professor of Coordinated Science Laboratory and Professor of Physics

Articles

Effects of gas conditioning on cathode surfaces, field emission and electrical breakdown. *Proc. 3rd intl. symp. discharges and elec. insulation in vacuum*, Paris, September 1968, pp. 128-33.

MAYEDA, WATARU, Research Professor of Coordinated Science Laboratory and Professor of Electrical Engineering

Articles

With L. S. Hakimi, W. K. Chen, N. Deo
Generation of complete trees. *IEEE Trans. Circuit Theory*, CT-15, 2:101-5.

Maximum flow under controlled edge flows. *Proc. 1968 IEEE Intl. Conf. Commun.*, pp. 694-98.

MEDANIC, JURAJ, Research Associate of Coordinated Science Laboratory

Articles

With C.-I. Chen

Performance segment design of linear control systems. *Proc. 2nd Ann. Princeton Conf. Inf. Sci. and Sys.*, Princeton Univ. Press, pp. 47-53.

An elimination algorithm for computation of the minimax. *Proc. 6th Ann. Allerton Conf. Circuit and Sys. Theory*, Univ. Illinois, Urbana, pp. 800-810.

METZE, GERNOT, Research Associate Professor of Coordinated Science Laboratory and Associate Professor of Electrical Engineering

Articles

With E. S. Davidson

Module complexity and NAND network design algorithms. *Proc. 6th Ann. Allerton Conf. Circuit and Sys. Theory*, Univ. Illinois, Urbana, pp. 538-48.

Comments on "an algorithm for synthesis of multiple-output combinational logic." *IEEE Trans. Computers (Short Notes)*, C-17, pp. 1091-92.

With D. R. Schertz

On the indistinguishability of faults in digital systems. *Proc. 6th Ann. Allerton Conf.*

Circuits and Sys. Theory, Univ. Illinois, Urbana, pp. 752-60.

With A. Wojcik

A reexamination of ternary switching theory. *Ibid.*, pp. 711-21.

PERKINS, WILLIAM R., Research Associate Professor of Coordinated Science Laboratory and Associate Professor of Electrical Engineering

See Electrical Engineering.

PREPARATA, FRANCO P., Research Associate Professor of Coordinated Science Laboratory and Associate Professor of Electrical Engineering

Articles

Weight and distance structure of Nordstrom-Robinson quadratic code. *Inf. and Control*, 12, 5/6:466-73.

Convolutional transformation and recovery of binary sequences. *IEEE Trans. Computers*, C-17, 7:649-55.

A class of optimum nonlinear double-error-correcting codes. *Inf. and Control*, 13, 4: 378-401.

An alternate description and a new decoding procedure of Nordstrom-Robinson optimum code. *Proc. 2nd Ann. Princeton Conf. Inf. Sci. and Sys.*, Princeton Univ. Press, pp. 131-34.

With S. J. Hong, R. T. Chien

Some contributions to the theory of arithmetic codes. *Proc. Hawaii Intl. Conf. Sys. Sci.*, pp. 460-62.

RAETHER, MANFRED, Research Professor of Coordinated Science Laboratory and Professor of Physics

Articles

With J. Chang, H. Bohmer

Generation of smeared out electron beams for experiments on weak plasma turbulence. *Rev. Sci. Instr.* 39, 12:1873-74.

RESCH, RONALD, Research Assistant Professor of Coordinated Science Laboratory and Assistant Professor of Architecture and Computer Science

Articles

Experimental structures. In *Emerging concepts of computer graphics*, ed. by Secrest and Nievergelt, W. A. Benjamin, Inc., N.Y.

Computer drawings. In *Cybernetic serendipity, the computer and the arts*, A Studio Intl. Special Issue, ed. by Jasia Reichardt, Studio International, London.

SKAPERDAS, DOMINIC O., Senior Research Engineer of Coordinated Science Laboratory and Associate Director of Computer-based Educational Research Laboratory

Articles

With D. L. Bitzer

PLATO IV—an economically viable large-scale computer-based education system. *Proc. Natl. Electronics Conf.*, 24:351-56.

SLOTTOW, HIRAM GENE, Research Associate Professor of Coordinated Science Laboratory and Associate Professor of Electrical Engineering

Articles

With D. L. Bitzer

The plasma display panel—a new device for direct display of graphics. In *Emerging concept in computer graphics*, ed. by

Secrest and Nievergelt, W. A. Benjamin, Inc., N.Y., pp. 3-28.

Principles and applications of the plasma display panel. *Proc. OAR Res. Applications Conf.*, Ofc. Aerospace Research, Arlington, Va., 1: A1-A43. In *Proc. Symp. Microelectronics and Electronic Sys.*, St. Louis Section and Professional Group on Parts, Materials, and Packaging, IEEE, pp. C61-C610.

TRICK, TIMOTHY N., Research Assistant Professor of Coordinated Science Laboratory and Assistant Professor of Electrical Engineering

Books Edited

With R. T. Chien

Proceedings of the sixth annual Allerton conference on circuit and system theory, Univ. Ill., Eng. Exp. Sta., Urbana, 902 pp.

Articles

Bounded-input—bounded output stability of RC networks containing N nonlinear time-varying capacitors. *Proc. 11th Midwest Symp. Circuit Theory*, 11:352-60.

VON FOERSTER, HEINZ M., Research Professor of Coordinated Science Laboratory and Professor of Electrical Engineering

See Electrical Engineering.

YEN, SHEE-MANG, Research Professor of Coordinated Science Laboratory and Professor of Aeronautical and Astronautical Engineering

See Aeronautical and Astronautical Engineering.

DAIRY SCIENCE

BROQUIST, HARRY P., Professor

Articles

With S. D. Aust, K. L. Rinehart, Jr.

Slaframine: A parasymphathomimetic from *Rhizoctonia leguminicola*. *Biotech. Bioeng.*, 10:403-12.

With C. R. Burke

Growth of a *Neurospora crassa* lysine auxotroph on glutaric acid. *Biochem. Biophys. Res. Comm.*, 32, 3:487-91.

With R. A. Gardiner, K. L. Rinehart, Jr.,

J. J. Snyder

Slaframine. Absolute stereochemistry and a revised structure. *J. Am. Chem. Soc.*, 90: 5639.

With R. W. Hogg

Homocitrate formation in *Neurospora crassa*. *J. Biol. Chem.*, 243, 8:1839-45.

BROWN, RICHARD E., Professor

Articles

The efficiency of energy utilization in animal production. In *Animal production and world food needs*, Univ. Ill., Coll. Agr. Spec. Pub. 12, pp. 14-18.

With J. A. Bines

Incorporation of carbon from acetate and butyrate into milk components. *J. Dairy Sci.*, 51, 5:698-705.

With S. D. Farlin, U. S. Garrigus

In vivo metabolism of biuret and urea by sheep. *J. Ani. Sci.*, 27, 3:771-75.

BRYANT, MARVIN P., Professor

Articles

With K. F. Langenberg, R. S. Wolfe

Hydrogen-oxidizing methane bacteria. II.

- Electron microscopy. *J. Bacteriol.*, 95, 3: 1124-29.
- With B. C. McBride, R. S. Wolfe
Hydrogen-oxidizing methane bacteria. I. Cultivation and methanogenesis. *Ibid.*, 3: 1118-23.
- With I. M. Robinson
Effects of diet, time after feeding, and position sampled on numbers of viable bacteria in the bovine rumen. *J. Dairy Sci.*, 51, 12:1950-55.
- With C. M. Thorley, M. E. Sharpe
Modification of the rumen bacterial flora by feeding cattle ground and pelleted roughage as determined with culture media with and without rumen fluid. *Ibid.*, 11:1811-16.
- CASH, JACOB G., Professor
Articles
With I. Johansson
Dairymen rate their own cows. *Hoard's Dairyman*, 113, 11:692.
- DOUGLAS, L. JULIA, Research Associate
Articles
With J. Baddley
A lipid intermediate in the biosynthesis of a teichoic acid. *FEBS Letters*, 1:114.
With J. Baddley, N. L. Bulmson
The biosynthesis of the wall teichoic acid in *Staphylococcus lactis* 13. *Biochem. J.*, 110: 565.
- FRYMAN, LEO R., Professor
Bulletins and Technical Reports
Getting the most from chemical analysis of roughages for dairy cattle. *Univ. Ill. Coll. Agr. Exp. Sta. Circ.* 994. 11 pp.
With K. E. Harshbarger, A. J. Muehling
Feeding, managing and housing dairy calves. *Ibid.*, Circ. 992. 12 pp.
- GRAVES, CHARLES N., Associate Professor
Articles
With P. J. Dziuk
Control of ovulation in dairy cattle with human chorionic gonadotropin after treatment with 6 α -methyl-17 α -acetoxyprogesterone. *J. Reprod. Fert.*, 17:169-72.
With J. R. Lodge, P. G. Harms
Effect of 2-deoxyglucose on bovine spermatozoan metabolism and preservation. *J. Dairy Sci.*, 51, 7:1085-90.
With J. R. Lodge, G. W. Salisbury
Carbon dioxide in anaerobic spermatozoan metabolism. *Ibid.*, 1:96-103.
- HARSHBARGER, KENNETH E., Professor
Articles
With K. A. Kendall, R. L. Hays, E. E. Ormiston
Postpartum variations in the blood composition of the dairy cow as associated with prepartum rations. *Ill. Res.*, 10, 3:16-17.
With H. B. Puckett, E. F. Olver
Automatic livestock feeding. In *Science for better living*, The yearbook of agriculture 1968. USDA, Wash., D.C., pp. 125-28.
- Bulletins and Technical Reports**
With L. R. Fryman, A. J. Muehling
Feeding, managing and housing dairy calves. *Univ. Ill. Coll. Agr. Exp. Sta. Circ.* 992. 12 pp.
- HAYS, RAY L., Professor
Articles
With K. A. Kendall, K. E. Harshbarger, E. E. Ormiston
Postpartum variations in the blood composition of the dairy cow as associated with prepartum rations. *Ill. Res.*, 10, 3:16-17.
With N. L. VanDemark, C. A. Zogg
Effect of hyper- and hypoglycemia accompanying cryptorchidism on testis function. *Am. J. Physiol.*, 215, 4:977-84.
With C. A. Zogg, N. L. VanDemark, A. D. Johnson
Effect of duration of experimental cryptorchidism on testis composition and metabolic activity. *Ibid.*, 4:985-90.
- KENDALL, KENTON A., Professor
Articles
With K. E. Harshbarger, R. L. Hays, E. E. Ormiston
Postpartum variations in the blood composition of the dairy cow as associated with prepartum rations. *Ill. Res.*, 10, 3:16-17.
- LARSON, BRUCE L., Professor
Articles
With G. N. Jorgensen
Conversion of phenylalanine to tyrosine in the bovine mammary secretory cell. *Biochim. Biophys. Acta*, 165:121-26.
With D. J. Schingoethe, E. C. Hageman
Essential amino acids for milk protein synthesis in the *in vitro* secretory cell and stimulation by elevated levels. *Ibid.*, 148: 469-74.
- LODGE, ROBERT, Associate Professor
Articles
With C. N. Graves, G. W. Salisbury
Carbon dioxide in anaerobic spermatozoan metabolism. *J. Dairy Sci.*, 51, 1:96-103.
With P. G. Harms, C. N. Graves
Effect of 2-deoxyglucose on bovine spermatozoan metabolism and preservation. *Ibid.*, 51, 7:1085-90.
With J. F. Roche, P. J. Dziuk
Competition between fresh and aged spermatozoa in fertilizing rabbit eggs. *J. Reprod. Fert.*, 16:155-57.
- ORMISTON, EMMETT E., Professor
Articles
With K. A. Kendall, K. E. Harshbarger, R. L. Hays
Postpartum variations in the blood composition of the dairy cow as associated with prepartum rations. *Ill. Res.*, 10, 3:16-17.
- SALISBURY, GLENN W., Professor
Articles
Aging of spermatozoa during storage and DNA. *Proc. 2nd Tech. Conf. Artificial Insem. and Reprod.*, February, pp. 27-32.
Can the animal agriculture teachers and scientists of the American landgrant universities really contribute to world food needs? In *Animal Production and World Food Needs*, Univ. Ill., Coll. Agr. Spec. Pub. 12, pp. 44-56.
With J. R. Lodge, C. N. Graves
Carbon dioxide in anaerobic spermatozoan metabolism. *J. Dairy Sci.*, 51, 1:96-103.

WOLIN, MEYER J., Professor

Articles

With W. H. Rufener, Jr.

Effect of CCl_4 on CH_4 and volatile acid production in continuous cultures of rumen organisms and in a sheep rumen. *Appl. Microbiol.*, 16, 12:1955-56.

DOCTORAL DISSERTATIONS

Hegmann, Joseph P. (J. C. DeFries, Adviser), A quantitative genetic analysis of components of open-field behavior in mice.

Peterson, Raymond G. (R. W. Touchberry, Adviser), Effects of mass selection on the non-additive portion of the genetic variance in a simulated genetic population.

Sachan, Dileep S. (C. L. Davis, Adviser), Hydrogenation of long chain unsaturated fatty acids by pure cultures of rumen bacteria.

DEAN OF STUDENTS' OFFICE

LEVY, STANLEY R., Associate Dean of Students

Reviews

The college experience, by Mervin B. Freedman. *J. Higher Educ.*, 39:359-60.

ECONOMIC AND BUSINESS RESEARCH

BASSIE, V LEWIS, Professor

Articles

Outline of economic planning for underdeveloped countries. *Socio-Economic Sci.*, 1:461-64.

A program of monthly industrial statistics for Columbia. *Estadística*, 98, March, pp. 65-82.

Subsidies. In *International encyclopedia of the social sciences*, Crowell Collier and Macmillan, N.Y., pp. 333-67.

Can we balance our foreign accounts? *Ill. Bus. Rev.*, 25, 1:2-8.

Consumption no guarantee of growth. *Ibid.*, 25, 2:2-8.

Can gold hoarders control its price? *Ibid.*, 25, 3:2-8.

More about gold and money. *Ibid.*, 25, 4:2-8.

The un-real rate of interest. *Ibid.*, 25, 5:2-8.

Inflation in economic policy. *Ibid.*, 25, 6:2-8.

Must balance of payments depress us? *Ibid.*, 25, 7:2-8.

Attacks on the 1970 census. *Ibid.*, 25, 8:2-8.

The goal of business. *Ibid.*, 25, 9:2-8.

The conglomerating stock market. *Ibid.*, 25, 10:2-8.

Economics of inflationary boomlets. *Ibid.*, 25, 11:2-8.

GUTHRIE, HAROLD W., Professor

Articles

The ritual of the riot report. *Ill. Bus. Rev.*, 25, 4:6-8.

SCHILLER, HERBERT I., Professor

Articles

Social control and individual freedom. *Bull. Atomic Sci.*, May, pp. 16-21.

The use of American power in the post-colonial world. *Massachusetts Rev.*, Autumn, pp. 631-50.

Economics. In *Good Reading*, ed. by J. Sherwood Weber, New American Library, Weybright and Talley, N.Y., pp. 219-24.

Reviews

Radio-television broadcasting on the European continent. *AV. Comm. Rev.*, Fall, pp. 326-29.

The first freedom. *The Nation*, June 24, pp. 835-36.

The national conventions. *Educ. Broadcasting Rev.*, December, pp. 69-71.

ECONOMICS

BASSIE, V LEWIS, Professor

See Economic and Business Research.

BRANDIS, ROYALL, Professor

Books

Principles of economics. Richard D. Irwin, Inc., Homewood, Ill., 712 pp.

Instructor's manual to accompany *Principles of economics*. *Ibid.*, 137 pp.

Articles

The myth of absolute advantage: reply. *Amer. Econ. Rev.*, 58, 3:520-22.

BREMS, HANS J., Professor

Books

Quantitative economic theory. John Wiley and Sons, N.Y., 514 pp.

Articles

Linear programming, sales constraints, and optimum quality of output. In *Marketing and the new science of planning*, ed. by R. L. King, Amer. Marketing Assn., Chicago, pp. 63-68.

Kvalitetsoptimering. *Markedsökonomi*, 2, 4: 233-41.

CUMMINGS, RALPH W., Assistant Professor

Books

Pricing efficiency in the Indian wheat market. Impex, New Delhi, India. 203 pp. 1967.

Articles

Effectiveness of pricing in an Indian wheat market: a case study of Kharra, Punjab. *Amer. J. Agricultural Econ.*, August, pp. 687-770.

With R. W. Herdt, S. K. Ray

New agricultural strategy revisited. *Economic and Political Wkly.*, pp. A-15-A-23.

DUE, JOHN F., Professor

Books

With Frances Juris

Rails to the Ochoco country: the city of Prineville railway. Golden West Books, San Marion, Calif., 225 pp.

Government finance: economics of the public sector (4th ed.). Richard D. Irwin, Inc., Homewood, Ill., 485 pp.

Articles

The new state sales taxes 1961-1968. *Natl. Tax J.*, 21, 3:266-87.

Is the perfectly competitive model useful for analysis of price reactions to tax changes? *Ibid.*, 21, 2:224-26.

Liability of out of state mail order vendors for collection of use tax. *Ibid.*, 20, 4: 463-68.

Trends in state sales taxation in the United States. *Canadian Tax J.*, 16, 4:307-15.

Indirect taxes and relative prices: comment. *Qt. J. Econ.*, 82, 2:340-43.

- Impuestos a las ventas. In *Centro Interamericano de Administradores Tributarios, Documentos y Actas de la Primera Asamblea General*, Buenos Aires, pp. 443-58.
- The Illinois tax structure. *Ill. Bus. Rev.*, 25, 3:6-8.
- Sales and excise taxes. In *Encyc. of the Social Sciences*, pp. 550-55.
- Requirements of a tax structure in a developing economy. In *Readings on taxation in developing countries*, ed. by R. M. Bird and O. Oldman, Johns Hopkins Press, Baltimore, pp. 33-41, 1967.
- Reviews**
- Public finance and economic development of Natal, by Z. Konczacki. *Canadian J. Econ.*, 1, 3:663-64.
- FERBER, ROBERT, Professor**
See Survey Research Laboratory.
- FLANDERS, DWIGHT P., Professor**
- Articles**
- With J. F. Niss
Custom production and the ideal transaction. *Land Economics*, 44, 3:293-306.
- FOLK, HUGH W., Associate Professor**
See Labor and Industrial Relations.
- HARBESON, ROBERT W., Professor**
- Articles**
- The rail passenger service problem revisited. *Pub. Util. Fortnightly*, 82, 13:28-33.
- HARTMAN, PAUL T., Associate Professor**
- Reviews**
- Labour relations in the motor industry: a study of industrial unrest and an international comparison, by H. A. Turner. *J. Bus.*, 41:280-81.
- Industrial relations in a British car factory, by G. Clack. *Ibid.*, pp. 280-81.
- HEINS, A. JAMES, Associate Professor**
- Articles**
- Elements of a theory of local borrowing. *Proc. Natl. Tax Assn.*, 60, pp. 75-86.
- JUDGE, GEORGE G., Professor**
- Articles**
- The search for quantitative economic knowledge. *AJAE*, 50, 5:1703-18.
- With T. C. Lee, A. Zellner
Maximum likelihood and Bayesian estimation of transition probabilities. *J. Amer. Stat. Assn.*, 63, 4:1162-80.
- KEMMERER, DONALD L., Professor**
- Reviews**
- China market: America's quest for informal empire, 1893-1901, by Thomas J. McCormick. In *The annals of the American Academy of Political and Social Science*, 377:197.
- LEUTHOLD, JANE H., Assistant Professor**
- Articles**
- An empirical study of formula income transfers and the work decision of the poor. *J. Human Resources*, 3, 3:312-23.
- The impact of industrial development on local finance: A comment. *Qt. Rev. Econ. and Bus.*, 8, 3:76-79.
- With M. H. David
Formulas for income maintenance: their distributional impact. *NTJ*, 21, 1:70-93.
- MILLAR, JAMES R., Assistant Professor**
- Articles**
- On the merits of the convergence hypothesis. *JEI*, 2, 1:60-68.
- Recent east European economic change: a discussion. *Proc. Natl. Assn. Comparative Econ.*, DeKalb, Ill., pp. 28-33.
- Reviews**
- A. V. Chayanov on the theory of peasant economy, ed. by Thorner, Kerblay, and Smith. *Southwestern Soc. Sci. Qt.*, 48, 4: 644-45.
- MOYER, M. EUGENE, Assistant Professor**
- Articles**
- With D. W. Paden
On the efficiency of the high school economics course. *Amer. Econ. Rev.*, 58, 4:870-77.
- NEAL, LARRY D., Assistant Professor**
- Articles**
- Growth, stability, and financial innovation in the American economy, 1897-1914. In *Papers of the 15th annual meeting of the Business History Conference*, ed. by Bateman and Foust, Ind. Univ. School of Business, Bloomington, pp. 123-25.
- NOURSE, HUGH O., Professor**
- Books**
- Regional economics. McGraw-Hill Book Co., N.Y., 247 pp.
- Bulletins and Technical Reports**
- With B. B. Ewing, others
Feasibility of evaluation of benefits from improved Great Lakes water quality. Rpt. No. 2, Water Resources Center, Univ. Ill., Urbana, 122 pp.
- Reviews**
- The spatial economy of communist China: a study on industrial location and transportation, by Yuan-Li Wu. *J. Asian Studies*, 8, 1:170-71.
- PADEN, DONALD W., Professor**
- Articles**
- With M. E. Moyer
On the efficiency of the high school economics course. *Amer. Econ. Rev.*, 58, 4: 870-77.
- RESEK, ROBERT W., Associate Professor**
- Articles**
- Uncertainty and the precautionary demand for money. *J. Finance*, 22, 4:657-62.
- Investment, production, and the cost of funds. *ASA 1967 Proc. Bus. and Econ. Stat. Sec.*, pp. 371-80.
- SCHRAN, PETER, Associate Professor**
- Articles**
- Comments on Alexander Eckstein's article on economic fluctuations in communist China's domestic development. In *China in crisis*, ed. by Ping-ti Ho and Tang Tsou, Univ. Chicago Press, 1, 2:730-39.
- SIMON, JULIAN L., Associate Professor**
See Business Administration.
- SPRENKLE, CASE M., Associate Professor**
- Articles**
- With D. J. Aigner
A simple model of information and lending behavior. *J. Finance*, 23, 1:151-66.

Reviews

Essays in monetary economics, by Harry G. Johnson. *Qt. Rev. Econ. and Bus.*, 8, 2: 75-77.

WEISER, LAWRENCE A., Assistant Professor

Articles

Changing factor requirements of United States foreign trade. *Rev. Econ. and Stat.*, 50, 3: 356-60.

With P. Yeung

Gold crisis: the new power struggle. *Ill. Bus. Rev.*, 25, 9: 6-8.

WILLIAMSON, HAROLD F., JR., Instructor

With L. N. Moses

The location of economic activity in cities. *Amer. Econ. Rev.*, 57, 2: 211-22; The location of economic activity in cities (rev. ed.). In *The new urbanization*, ed. by Greer, McElrath, Minar and Orleans. St. Martin's Press, N.Y., pp. 113-31.

YEUNG, PATRICK, Assistant Professor

Articles

The analysis of the potential gains and contributions of entrepot trade. *Malayan Econ. Rev.*, 13, 1: 1-10.

With L. Weiser

Gold crisis: the new power struggle. *Ill. Bus. Rev.*, 25, 9: 6-8.

DOCTORAL DISSERTATIONS

Cassidy, Henry J. (A. J. Heins, Adviser), Stabilization properties of the payroll tax.

Chu, Shih-fan (M. Frankel, Adviser), The production function in theory and in practice: a general synthesis.

Craig, George D. (R. Ferber, Adviser), Predictive accuracy of aggregate quarterly and annual saving functions.

Gillis, Stephen M. (J. F. Due, Adviser), Sales taxation in a developing economy — the Chilean case.

Mampe, Edwin P., Jr. (A. J. Heins, Adviser), The impact of interest rates on share prices: the influence of expectations, growth and leverage.

McBrearty, James C. (E. B. McNatt, Adviser), Public policy implications of NLRB and court interpretations of employer unfair labor practices, 1961-1966.

Murphy, Neil B. (D. R. Hodgman, Adviser), A study of wholesale banking behavior.

Naylor, John A. (D. R. Hodgman, Adviser), Some theoretical and empirical considerations relative to the term structure of interest rates.

Richter, Charles E. (H. O. Nourse, Adviser), The impact of industrial linkages on geographic association.

Rittschof, Louis W. (D. W. Paden, Adviser), The high school economics course: a scientific approach.

Truitt, William J. (J. F. Due, Adviser), An econometric study of the shifting of excise taxes: a case study of refrigerators.

Van Buer, Franklin D. (J. F. Due, Adviser), The structure and administration of the Eastern Nigerian tax system.

EDUCATION, INCLUDING EDUCATIONAL RESEARCH

ALEAMONI, LAWRENCE, Assistant Professor

See Instructional Resources.

ANDERSON, ERNEST F., Assistant Professor

Articles

Admission to curricula. In *Proceedings: 2nd statewide junior college conference*. Ill. Junior Coll. Board, Springfield, pp. 71-73.

Bulletins and Technical Reports

With J. S. Spencer

Report on selected data and characteristics: Illinois public junior colleges, 1967-68. *Ibid.*, 87 pp.

ANDERSON, RICHARD C., Assistant Professor

Articles

Part-task versus whole-task procedures for teaching a problem-solving skill to first graders. *J. Educ. Psychol.*, 59: 207-14.

With D. J. Cunningham

Effects of practice time within prompting and confirmation presentation procedures on paired associate learning. *J. Verb. Learn. Verb. Behavior*, 7: 613-16.

With M. Roderick

Programmed introduction to psychology versus a text-book style summary of the same lesson. *J. Educ. Psychol.*, 59: 381-87.

With G. W. Faust, M. Roderick

"Overprompting" in programmed instruction. *Ibid.*, pp. 88-93.

Bulletins and Technical Reports

An analysis of a class of problem-solving behavior. Final report, USOE Coop. Res. Program Project #2942, 180 pp.

ASHENFELTER, JOHN W., Instructor

Articles

With P. B. Shoresman, R. K. Hanson, E. S. Jenkins, Sr.

Elementary science materials: an analysis. *EPIE Forum*, 1, 8/9: 17-25.

ATKIN, J. MYRON, Professor

Articles

Research styles in science education. *J. Res. Sci. Tchg.*, 5, 4: 338-45.

A critical look at "process" in science education. *EPIE Forum*, 1, 8/9: 6-10.

Behavioral objectives in curriculum design. *Sci. Tchr.*, 35, 5: 27-30.

BECKER, WESLEY C., Professor

Articles

With D. R. Thomas, Marianne Armstrong

Production and elimination of disruptive classroom behavior by systematically varying teacher's behavior. *J. Appl. Behav. Anal.*, 1: 35-45.

With C. H. Madsen, Jr., Don R. Thomas

Rules, praise, and ignoring: Elements of elementary classroom control. *Ibid.*, pp. 139-50.

With D. R. Thomas, Loretta J. Neilsen, D. S. Kuypers

Social reinforcement and remedial instruction in the elimination of a student's classroom behavior problem. *J. Spec. Educ.*, 2: 291-305.

With D. S. Kuypers, D. K. O'Leary

How to make a token system fail. *Except. Child.*, 35:101-9.

BLAIR, GLENN M., Professor

Books

With R. S. Jones, R. H. Simpson

Educational psychology (3rd ed.). The Macmillan Co., N.Y., 679 pp.

BROUDY, HARRY S., Professor

Articles

Some hazards and potentials of educational technology. In *Planning for effective utilization of technology in education*, ed. by Morphet and Jesser, Denver, Colo., pp. 92-113.

The role of the foundational studies in the preparation of elementary school teachers. *Proceedings. Second invitational conference on elementary education*, Univ. Alberta, Edmonton, pp. 129-39; *J. Educ. Thought*, 2:30-40.

Education in days ahead. *Kappa Delta Pi Record*, 5:1-4.

Response to presidential address. *Educ. Theory*, 18:312-15.

BURNETT, JACQUETTA H., Associate Professor

Articles

Workflow versus classroom models of academic work. *Michigan J. Sec. Educ.*, 9, Winter, pp. 14-21.

School culture and social change in the city. *Educ. Leadership*, 26, 1:12-17.

BURNETT, JOE R., Professor

Articles

With J. R. Palmer

Political distinctions and education. *Studies Phil. and Educ.*, 6, 3 (Summer): 302-9.

Reviews

The political life of American teachers, by Harmon Zeigler. *Educ. Forum*, 33, 1:124.

CARVER, FRED D., Assistant Professor

Articles

Education level and family income of citizens and expectations for the role of the school board. *J. Educ. Res.*, 61, J-A: 442-46.

Social class and school board role expectations. *Urban Educ.*, 3, 3:143-55.

Four responsibilities of the teacher. *Ill. Educ.*, 57, 64:78-80.

CHADBOURN, RUSSELL A., Assistant Professor

Articles

With K. D. Hopkins

A schema for proper utilization of multiple comparisons in research and a case study. *AERJ*, 4, 4:407-12.

A critique of current research practices in mathematics-education. Research Paper No. 7, L.E.R., Univ. Colorado, Boulder, 54 pp.

Stimulus sampling theory, by Neimark and Estes. *EPM*, 28, 2:638-40.

COX, C. BENJAMIN, Associate Professor

Books

With F. R. Smith

New strategies and curriculum in social studies. Rand McNally and Co., Chicago, 194 pp.

Articles

With W. Johnson, R. Payette

Review of research in social studies: 1967. *Soc. Educ.*, 32, 6:557-71.

Reviews

Role playing for social values, by Fannie and George Shaftel. *Educ. Forum*, 32, 3:373.

DELANEY, DANIEL J., Associate Professor

Books Edited

With T. J. Long

Readings in counseling and psychotherapy. Associated Educ. Services, N.Y., 294 pp.

With S. Cohen

Readings in personality and social development. *Ibid.*, 302 pp.

Articles

Sensitization to nonverbal communications: a synthesis of instruction and experience. *Counselor-Educ. and Supervision*, 7:315-16.

DENNY, TERRY, Associate Professor

Articles

With R. E. Stake

EP = ER? *Educ. Psychol.*, 5, 6:3-9.

Evaluating reading materials. *Reading Tchr.*, 22, 3:426-27.

No insignificant differences. *Educ. Researcher*, 3:4.

The EPIE approach to evaluating instructional materials. In *Proceedings: Conference for the evaluation of instructional materials*, ed. by Moss, George Washington Univ., Wash., D.C., pp. 1-11.

DURKIN, DOLORES, Professor

Articles

When should children begin to read? In *Innovation and change in reading instruction*, 67th Yearbook of the Natl. Soc. Study of Educ., Part II. Univ. Chicago Press, pp. 30-71.

What school administrators should know about early reading programs. *Nation's Schools*, 81, 3:126-32.

Do sex differences affect reading? *Instructor*, 77, 9:25.

EASLEY, JOHN A., JR., Professor

Books

With M. Tatsuoka

Scientific thought: cases from classical physics. Allyn and Bacon, Boston, 333 pp.

ENGLMANN, SIEGFRIED E., Sr. Specialist

Books

With Therese Engelmann

Preventing failure in the primary grades. Science Research Associates, Chicago, 396 pp.

Concepts and problem solving. Dimensions in Early Learning Series, ed. by K. E. Berry and Barbara Bateman. Dimensions Pub. Co., San Rafael, Calif., 102 pp.

Articles

Relating operant techniques to programming and teaching. *J. Sch. Psychol.*, 6:89-96.

EVERTTS, ELDONNA L., Associate Professor

Books Edited

With M. F. Shugrue

English teacher preparation study, guidelines for the preparation of teachers of English: an exposition. Natl. Coun. Teachers of English, Champaign, Ill. *Engl. J.*, April, pp. 475-564.

Articles

An instrument for the syntactical analysis of children's compositions. In *Psycholinguistic nature of the reading process*, ed. by Kenneth Goodman. Wayne State Univ. Press, Detroit, pp. 202-35.

Bulletins and Technical Reports

What's new in language arts: composition. EKNE Elementary Instructional Service. Elementary Kindergarten-Nursery Education, Natl. Educ. Assn., Wash., D.C., 8 pp.

Selected annotated bibliography: English and certification. NCTE/ERIC Clearinghouse on the Teaching of English. Champaign, Ill., Sept., 34 pp.

Reviews

Learning to read: the great debate, by Jeanne S. Chall. *Natl. Elem. Principal*, January, pp. 83-86.

Learning to read: the great debate, by Jeanne S. Chall. *Elem. English*, May, pp. 652-56.

FELNBERG, WALTER, Assistant Professor

Articles

Remarks on Macmillan and McClellan's treatment of means-ends reasoning in teaching. In *Studies in philosophy and education*, 6, 2:194-206.

Reviews

Essay-review on *Education for tragedy*, by Kenneth Benne. *Educ. Theory* 18, 1:87-93.

FISHER, LAWRENCE A., Professor

Articles

Training techniques in medical education — recent developments in international techniques in general. *Indian J. Med. Educ.*, 7, 1, 2:106-8.

FLEY, JO ANN, Assistant Professor

Articles

Campus regulations: are girls different? *J. NAWDC*, 31, 3:116-22.

GRIFFIN, LOUISE B., Education Specialist

Bulletins and Technical Reports

How to use ERIC. ERIC Clearinghouse on Early Childhood Education, Urbana, 20 pp.

Using music with head start children. *Ibid.*, 22 pp.

Big questions and little children: science and head start. *Ibid.*, 32 pp.

GRONLUND, NORMAN E., Professor

Books

Constructing achievement tests. Prentice-Hall, Englewood Cliffs, N.J., 118 pp.

Books Edited

Readings in measurement and evaluation. The Macmillan Co., N.Y., 463 pp.

Articles

The relation between teachers' judgments of pupil sociometric status and intelligence. In *Readings in educational psychology*, ed. by Lindgren, John Wiley and Sons, N.Y., pp. 440-45.

Testing — PSAT, SAT, ACT, NMSQT, etc. *PTA Mag.*, 62:8-10.

HEMP, PAUL E., Professor

Books

Fifty laboratory exercises for vocational horticulture students. Interstate Printers and Pubs., Danville, Ill., 174 pp.

Ornamental horticulture source units for vocational teachers. *Ibid.*, 135 pp.

Articles

Instructional aids for ornamental horticulture. *Agr. Educ. Mag.*, 40, 11:245-47.

Bulletins and Technical Reports

Vocational horticulture specialty programs for secondary students — interim report. Research Coordinating Unit, State Board for Vocational Educ. and Rehab., Springfield, Ill., 15 pp.

Lawn care and management. Div Agr. Educ., Univ. Ill., Urbana, 13 pp.

Estate planning — a source unit for adult education in agricultural occupations. *Ibid.*, 12 pp.

With R. L. Courson

Profitable corn production — a source unit for programs in agricultural occupations. *Ibid.*, 30 pp.

HENDERSON, KENNETH B., Professor

Books

With R. E. Pingry, D. L. Klingler

Modern algebra: structure and function, book 1. McGraw-Hill Book Co., N.Y., 564 pp.

Modern algebra: structure and function, book 2. *Ibid.*, 641 pp.

With R. E. Pingry, G. A. Robinson

Modern geometry: structure and function (2nd ed.). *Ibid.*, 561 pp.

HUMPHREYS, LLOYD, Professor

See Psychology.

HUNT, J. McVICKERS, Professor

Articles

Evolution of current concepts of intelligence and intellectual development. *Amer. Montessori Soc. Bull.*, 6, 4.

Rip Van Winkle returns: then and now. *Clinical Psychol.*, 23, 1:5-12.

With N. S. Endler

S-R Inventories of hostility and comparisons of the proportions of variance from persons, responses, and situations for hostility and anxiousness. *J. Pers. and Soc. Psychol.*, 9, 4:309-15.

Triple-interaction variance in the S-R Inventory of Anxiousness. *Percept. Motor Skills*, 27:1098.

With D. Greenberg, Ina C. Uzgiris

Hastening the development of the blink-response with looking. *J. Genet. Psychol.*, 113:167-76.

Conceptions of learning with implications for styles of teaching young children. In *Proceedings of the conference of Tri-University Project*, September, 1967, ed. by P. Olson, F. Rice, Univ. Nebraska, Lincoln, p. 54.

The impact and limitations of the giant of developmental psychology. In *Studies in cognitive development: essays in honor of Jean Piaget*, ed. by D. Elkind and J. H. Flavell, Oxford Univ. Press, pp. 3-66.

On fostering the development of intellectual competence. In *Montessori for the disadvantaged: an application of Montessori educational principles to the war on poverty*, ed. by R. C. Orem, G. P. Putman's Sons, N.Y., pp. 54-64. 1967.

Toward the prevention of incompetence. *Research contributions from psychology to conceptions of community mental health*, ed. by J. W. Carter, Jr., *Mono. J. Public Health*.

JOHNSON, WILLIAM D., Associate Professor

Articles

With C. B. Cox, R. F. Payette

Review of research in social studies: 1967. *Social Educ.*, 32, October, pp. 557-71.

KATZ, LILIAN G., Assistant Professor

Articles

With D. Peters, N. Stein

Observing behavior in kindergarten and pre-school classes. *Childhood Educ.*, 44, 6: 400-405.

KAULFERS, WALTER V., Professor

Reviews

Pattern drills in language teaching by James Elmekjian. *The Educ. Forum*, 32, 3: 364-65.

KETTELKAMP, GILBERT C., Professor

Bulletins and Technical Reports

With P. Castle, C. Jay

Toward excellence in foreign language education. Ofc. Supt. of Public Instruction, Springfield, Ill., pp. 19-23.

KNAPP, CLYDE G., Professor

Books

With Patricia H. Leonard

Teaching physical education in secondary schools (rev. ed.). McGraw-Hill Book Co., N.Y., 435 pp.

KNAUEL, RICHARD S., Instructor

With R. C. Wittrup

Utilizing field ecology for initial teaching experiences in biology. *Science Educ.*, 51, 1:58-61. 1967.

LAVATELLI, CELIA B., Professor

Articles

A laboratory approach to individualizing instruction in science. In *Proceedings of the forum on individualizing the science program*. Philadelphia: Research for Better Schools. 38 pp.

A piaget-derived model for compensatory pre-school education. In *Early childhood education rediscovered*, ed. by J. L. Frost, N.Y.: Holt, Rinehart and Winston, N.Y., pp. 530-44.

A critical overview of early childhood programs. ERIC Natl. Lab. for Early Childhood Educ., Univ. Ill., Urbana, 32 pp.

Environmental intervention in infancy and early childhood. In *Social class, race and psychological development*, ed. by M. Deutsch, L. Katz and A. K. Jensen, Holt, Rinehart and Winston, N.Y., pp. 347-80.

LEONARD, PATRICIA H., Lecturer

Books

With C. G. Knapp

Teaching physical education in secondary schools (rev. ed.). McGraw-Hill Book Co., N.Y., 435 pp.

LEPPERT, ELLA C., Professor

Books

Sub-Saharan Africa: a cultural area. Univ. Ill. Social Science Curriculum Study Center, Urbana, 505 pp.

India: a cultural area. *Ibid.*, 459 pp.
Economics: choice making. *Ibid.*, 326 pp.

With Rozella Smith

Classical civilizations. *Ibid.*, 317 pp.

MAEHR, MARTIN L., Associate Professor

Some limitations of the application of reinforcement theory to education. *School and Society*, 96:108-10.

Some limitations of the application of reinforcement theory to education. *Educ. Dig.*, 34:23-25.

With R. Vicebeck

Predisposition to risk and persistence under varying reinforcement — success schedules. *J. Pers. and Soc. Psychol.*, 9:96-100.

MARQUARDT, WILLIAM F., Professor

Articles

Composition in English as a second language: cross-culture communication. *English Teaching Forum*, 6, 1:1-4.

Literature and cross-culture communication. *Ibid.*, 2:8-10.

Tenth international congress of linguists: implications for teaching English as a second language. *TESOL Newsletter*, 1, 1:9-15.

With R. W. Cortright

Review of contemporary research on literacy and adult education in Latin America. *LARR*, 3, 3:47-69.

The adjective today. *Ill. J. Educ.*, 59, 6: 36-43.

With Ming-Chu Chang, Sermchitr Sinhaseni

Selected bibliography of references on training of teachers of English as a second language for work abroad. *ERIC Clearinghouse for Linguistics*, Ed 017929, 9 p. 1967.

MATHER, MARY E., Associate Professor

Books Edited

Home economics research abstracts, 1967. Amer. Home Econ. Assn., Home Econ. Educ., No. 5, Wash., D.C., 66 pp.

McGUIRE, CHRISTINE H., Lecturer

Articles

A model for the evaluation of teaching. In *The evaluation of teaching*, Pi Lambda Theta, Wash., D.C., pp. 85-108.

An evaluation model for professional education — medical education. In *Proceedings of the 1967 invitational conference on testing problems*, Educ. Testing Service, Princeton, N.J., pp. 37-52.

Trends in testing and evaluation in professional and adult education. *Educ. and Psychol. Testing AERA Rev. of Educ. Research*, 37, 1:49-60.

With H. G. Levine

Role-playing as an evaluative technique. *J. Educ. Measurement*, 5, 1:1-8.

With J. W. Williamson, M.D.

Consecutive case conference: an educational evaluation. *J. Med. Educ.*, 43, 10:1068-74.

Bulletins and Technical Reports

With J. Charvat, V. Parsons

A review of the nature and uses of examinations in medical education. Public Health Papers No. 36, World Health Organization, Geneva, Switzerland, 74 pp.

McINTYRE, CHARLES J., Professor

See Institutional Research.

McLURE, WILLIAM P., Professor

Bulletins and Technical Reports

Statewide techniques for survey and analysis of educational needs. Dept. Health, Educ.

and Welfare, Ofc. Educ., Div. State Agency Coop., Wash., D.C., 41 pp.

McMURRAY, FOSTER, Associate Professor

Articles

C. I. Lewis on social unity. *Educ. Theory*, 18, 4:318-37.

Reviews

The place of reason in education, by Bertram Bandman. *Studies in Philosophy and Education*, 6, 1:67-77.

MENGES, ROBERT

See Psychology.

METCALF, LAWRENCE E., Professor

Books

With M. P. Hunt

Teaching high school social studies (2nd ed.). Harper & Row, Pubs., 463 pp.

MILLER, VAN, Professor

Articles

From the editor's desk: satellitic surveillance or scintillation. *EAQ*, 4, 2:2-4.

MOORE, WALTER, J., Professor

Articles

Annotated index to elementary English, 1924-1967. Natl. Coun. Tchers. English, Champaign, Ill. pp. vi-267.

Critical reading skills in the middle grades. *Ill. State Normal Univ. J.*, 30:13-25.

The elementary language arts. *Ill. J. Educ.*, 59, December, pp. 26-31.

MOSES, HAROLD A., Assistant Professor

Books

With J. S. Zaccaria

Facilitating human development through reading. Stipes Pubs. Co., Champaign, Ill., 270 pp.

Articles

Diagnostic labeling in counseling. *IGPA Qt.*, 26:35-37.

Referring handicapped students to appropriate agencies. *School Counselor*, 16, 1:55-57.

With J. S. Zaccaria

The nature and use of bibliotherapy in the rehabilitative process. *Rehab. Couns. Bull.*, 11, 3:155-63.

O'BANION, TERRY, Assistant Professor

Articles

Exceptional practices in junior college student personnel programs. In *Student personnel work in the 70's*, ed. by Harvey, James, William Rainey Harper College, Ill., pp. 5-17.

For adults only. *Adult Leadership*, 17, 2: 57-58.

With G. Bottoms, F. L. Otte

Bridge building needed in the counseling community. *Amer. Voc. J.*, 43, 9:29.

OHLSEN, MERLE M., Professor

Articles

Standards for the preparation of elementary school counselors. *Coun. Educ. and Supervision*, 7:172-78.

Vocational counseling for girls and women. *Voc. Guid. Qt.*, 17:124-27.

Counseling children in groups. *School Counselor*, 15:343-49.

With R. K. Schwartz

A content analysis technique for evaluating

outcomes in counseling, *Pers. and Guid. J.*, 47:346-52.

OSBORN, JEAN, Educational Specialist

Articles

With C. Bereiter, P. Reidford

Teaching a teaching language to disadvantaged children. In *Monographs of the society for research in child development*. Inst. Child Devel., Univ. Minn., Minneapolis.

PATTERSON, CECIL H., Professor

Articles

Some problems and proposals in college counseling. In *Counseling for the liberal arts campus*, ed. by Heston and Frick, Antioch Press, Yellow Springs, Ohio, pp. 24-40.

The selection of counselors. In *Research in counseling*, ed. by Whitley, Charles E. Merrill Pub. Co., Columbus, Ohio, pp. 68-101.

Is cognition sufficient? In *Counseling theories and counselor education* ed. by Parker, Houghton Mifflin Co., Boston, pp. 85-96.

Rehabilitation counseling: a profession or a trade? *Pers. and Guid. J.*, 46:567-71.

Relationship therapy and/or behavior therapy? *Psychotherapy: Theory, Research and Practice*, 5:266-33.

PESHKIN, ALAN, Associate Professor

Articles

The use of trained native observers in fieldwork. In *Human Organization*, 27, 3:226-72.

Reviews

Planning for education in Pakistan, by Adam Curle. *Comparative Educ. Rev.*, 12, 1: 103-5.

The legal base for universities in developing countries, by Hannah and Caughey. *J. Developing Areas*, 2, 4:557-59.

PHILLIPS, DAVE, Assistant Professor

Articles

An approach to teaching. *J. Dental Educ.*, March, pp. 63-66.

PINGRY, ROBERT E., Professor

Books

With K. B. Henderson, D. L. Klingler

Modern algebra: structure and function, book 1. McGraw-Hill Book Co., N.Y., 564 pp.

Modern algebra: structure and function, book 2. *Ibid.*, 641 pp.

With K. B. Henderson, G. A. Robinson

Modern geometry: structure and function (2nd ed.). *Ibid.*, 561 pp.

Articles

Statistical inference. In *Research methods in librarianship: measurement and evaluation*, ed. by Herbert Goldhor, Univ. Ill. Grad. School of Lib. Sci., Urbana, pp. 95-104.

RAUBINGER, FREDERICK M., Professor

Books

With H. Rowe

The individual and education: some contemporary issues. The Macmillan Co., N.Y., 390 pp.

ROSEN, SIDNEY, Professor

See General Studies.

ROWE, HAROLD G., Assistant Professor

Books

With F. M. Raubinger

The individual and education: some contemporary issues. The Macmillan Co., N.Y., 390 pp.

SANDERS, WALTER J., Senior Specialist

Articles

Reusable number lines. *Instructor Mag.*, March, pp. 34-35.

Congruence geometry for junior high school. *Math. Teacher*, 61, 4:345-69.

SCANLAN, RICHARD T., Associate Professor

See Classics.

SERGIOVANNI, THOMAS J., Assistant Professor

Articles

New evidence on teacher morale. *North Central Assn. Qt.*, 42, 3:259-66.

SHORES, J. HARLAN, Professor

Articles

Dimensions of reading speed and comprehension. *Elementary Engl.*, January, pp. 23-28, 43.

Educational revolutions, eruptions, and skirmishes. *Scribe*, June, pp. 5-14.

SHORESMAN, PETER B., Associate Professor

Books

With J. S. Marshall, Illa Pondendorf, C. Swartz

Sense and tell: teacher's guidebook. Scott, Foresman and Co., Glenview, Ill., 143 pp.

Articles

With J. Ashenfelter, K. Hanson, E. S. Jenkins

Elementary science materials: an analysis. *The EPIE Forum*, 1, 8-9:17-25.

SIMPSON, ELIZABETH J., Professor

Articles

Challenges in curriculum development in home economics. *J. Home Econ.*, 60, 10: 767-73.

Federal legislation for home economics education. *Ill. Teacher*, 12, 2:53-56.

A dynamic area of vocational and technical education. *Agr. Educ.*, 40, 10:222.

SIMPSON, RAY H., Professor

Books

With G. M. Blair, R. S. Jones

Educational psychology (3rd ed.). The Macmillan Co., N.Y., 679 pp.

Articles

Developing student self-evaluation. In *Evaluation of students*, ed. by Harold Goldstein, Univ. Ill. Grad. School of Lib. Sci., pp. 31-51. 1967.

The teacher's role. *Amer. Voc. J.*, 43:14-16.

SMITH, B. OTHANEL, Professor

Articles

Recent research in teaching. *High School J.*, 51, 2:63-74.

SMITH, RALPH A.

Articles

On the third domain. *J. Aesthetic Educ.*, 2, 1:5-8.

Goals, purposes and objectives. *Ibid.*, 3:5-8.

Values and the curriculum. *Ibid.*, 2:5-10.

Is teaching an art? *Ibid.*, 4:5-9.

Aesthetic education: a role for the humanities program. *The Record*, 69, 4:343-54.

Aesthetic criticism: the method of aesthetic education. *Studies in Art Educ.*, 9, 3: 13-32.

Book Reviews

Art as image and idea, by Edmund B. Feldman. Prentice-Hall, Englewood Cliffs, N.J. *Art Education* 21, 8:4. 1967.

SPENCER, RICHARD E., Professor

See Instructional Resources.

SPITZE, HAZEL T., Associate Professor

Articles

Residential education for the disadvantaged. *Adult Leadership*, 16, 10:355-57.

Some impressions of education in England. *Ill. Teacher*, 11, 5:321-39.

Toward a definition of homemaker literacy. *J. Home Econ.*, 60, 5:333-36.

Project HEVE: a study in consumer education. *Housecraft*, London, 41, 10:401-2.

SPODEK, BERNARD, Professor

Articles

Pressures on young children. *Theory into Practice*, 7, 1:14-16.

How and what to teach the very young. *NEA J.*, 57, 2:43-46.

Bulletins and Technical Reports

With H. G. Morgan, H. G. Shane

Motivation. Dept. Elementary and Kindergarten-Nursery Educ., Natl. Educ. Assn., Wash., D.C., 30 pp.

With M. Metzow, E. Wheeler, B. Wolfson

Early childhood education today. Assn. Supervision and Curriculum Devel. — NEA, Wash., D.C., 25 pp.

SREDL, HENRY J., Associate Professor

Articles

CCST — Cincinnati's reply to the need for post-high school technical education. In *Technician Educ. Yearbook*, Prakken Pub., Ann Arbor, pp. 193-95.

Mass production — unit of study or method of teaching. *Indus. Arts and Voc. Educ.*, 57, 1:43-44.

Mount Look Out Junior High School. 57, 3:64-65.

STAKE, ROBERT E., Professor

Articles

Technologically-based instruction and materials. In *Planning for effective utilization of technology in education*, ed. by Morphet and Jesser. Designing Education for the Future — an Eight-State Project, 1362 Lincoln St., Denver, Colo., pp. 302-7.

Testing in the evaluation of curriculum development. *Rev. Educ. Res.*, 38, 1:77-84.

A research rationale for EPIE. *EPIE Forum*, 1:7-15.

Toward a technology for the evaluation of educational programs. *AERA Monograph Series on Curriculum Evaluation*, 1:1-12.

The countenance of educational evaluation. *Tchrs. Coll. Rec.*, 68:523-40.

Evaluation of college teaching. *J. Dental Educ.*, 30:257-59.

With T. Denny

EP = ER? *Educ. Psychol.*, 5, 6:3-9.

STALLINGS, WILLIAM M., Assistant

Professor

See Instructional Resources.

STANLEY, WILLIAM O., Professor

Articles

The social foundations subjects in the professional education of teachers. *Educ. Theory*, 18, 3:224-36.

SZABO, STEVEN, Research Associate

Some remarks on discovery, *Math. Teacher*, 61, 1:22-24.

Reviews

The circular functions, by Clayton W. Dodge. *Ibid.*, 7:718-19.

TATSUOKA, MAURICE M., Professor

Books

With P. J. Rulon, D. V. Tiedeman, C. R. Langmuir

Multivariate statistics for personnel classification. John Wiley and Sons, N.Y., 406 pp.

With J. A. Easley

Scientific thought: cases from classical physics. Allyn and Bacon, Boston, 333 pp.

Articles

Mathematical models in the behavioral and social sciences. In *Handbook of measurement and assessment in behavioral sciences*, ed. by D. K. Whitla, Addison-Wesley Pub. Co., Reading, Mass., pp. 3-59.

With A. Whimbe, G. M. Vaughn

Estimating variance components from mean squares. *Percept. Motor Skills*, 25, 2:668.

Reviews

Improving experimental design and statistical analysis, ed. by J. C. Stanley. *Psychometrika*, 33:255-57.

TINKHAM, ROBERT A., Associate Professor

Bulletins and Technical Reports

With A. Periberg, R. L. Nelson

The use of video tape recorders and micro-teaching techniques to improve instruction in vocational-technical programs in Illinois. Final Report. Research Coordinating Unit, Springfield, Ill. 128 pp.

TOMLINSON, ROBERT M., Associate

Professor

Articles

Curriculum in medical technology—1972. *Tech. Bull. Registry of Med. Technol.*, 38, 7.

Curriculum in medical technology—1972. *Amer. J. Clin. Pathologists*, 50, 2:260-65.

The role of the U.S.O.E. *J. Indus. Teacher Educ.*, 6, 1:38-46.

Bulletins and Technical Reports

A comprehensive program of occupational exploration and vocational education: a conceptual plan. Univ. Ill., Dept. of Voc. and Tech. Educ., Urbana, 136 pp.

TRAVERS, KENNETH J., Associate

Professor

Articles

Through clouds of failure into orbit. *Arith. Teacher*, 15, 7:591-98.

WALKER, JERRY L., Associate Professor

Books

With J. Ragle

The literature of America, ed. by Berkeley, Singer, Random House, N.Y., 818 pp.

Books Edited

Top pop/rock lyrics. Scholastic Book Services, N.Y., 55 pp.

Articles

British schools: some successes and doubts. In *The teaching of English in selected British schools*, by Squire and Applebee, U.S. Ofc. of Educ., Wash., D.C., pp. 369-78.

Individualized teaching of English. *Ill. J. Educ.*, 59, 7:17-20.

Bach, Rembrandt, Milton, and those other cats. *English J.*, 57, 5:631-36.

WALKER, ROBERT W., Assistant Professor

Articles

Improving instruction with super 8 motion pictures. *Agr. Educ. Mag.*, 40, 11:250-51.

An instructional program in buildings and grounds maintenance. *Ibid.*, 41, 1:10-11.

Meeting special needs of students through vocational-centered laboratory learning. *Ibid.*, 3:68-69.

Bulletins and Technical Reports

With R. Evans, H. Sredi, B. Carss

Instructional technology and vocational education. Univ. Ill., Commission on Instructional Technology, 20 pp.

Reviews

Book review of diagnostic and remedial reading. *Agr. Educ. Mag.*, 41, 5:119.

WARDROP, JAMES L., Assistant Professor

Bulletins and Technical Reports

With Doris M. Cook, others

Research and development activities in R & I units of two elementary schools of Janesville, Wisconsin, 1966-67. *Tech. Rpt. No. 45*, Res. and Devel. Center for Cognitive Learning, Madison, Wis., 17 pp.

With Mary Quilling, others

Research and development activities in R & I units of two elementary schools of Milwaukee, Wisconsin, 1966-67. *Tech. Rpt. No. 46*. *Ibid.*, 17 pp.

With H. J. Klausmeier, Mary Quilling

Research and development activities in R & I units of five elementary schools of Racine, Wisconsin, 1966-67. *Tech. Rpt. No. 52*. *Ibid.*, 44 pp.

Reviews

Probability and statistics in psychological research and theory, by Donald W. Stilson. *Educ. Psychol. Measmt.*, 28:653-56.

WEST, CHARLES K., Assistant Professor

Articles

With M. Ray Loree

Selectivity, redundancy, and contiguity as factors which influence the difficulty of an achievement test. *J. Exp. Educ.*, 36, 3: 89-93.

With T. H. Anderson

Effects of response modes on the retention of tactile stimuli. *Psychonomic Sci.*, 12, 2:65-66.

The modified lecture, a useful technique for teachers. *Clearing House*, 43, 3:142-45.

Reviews

An introduction to educational psychology by E. Stone (London: Methuen, 1966). *J. Teacher Educ.*, 19, 4:507-8.

WILLIAMS, DAVID L., Assistant Professor

Bulletins and Technical Reports

With W. L. Hull

Variables influencing teacher adoption of

cooperative agricultural occupations curricula. The Voc. Res. Coordinating Unit, Stillwater, Oklahoma, 45 pp.

Personal and situational variables which inhibit or stimulate the adoption of agricultural occupations curricula as an innovation in vocational agriculture by institute participants. Okla. State Univ. Res. Found., Stillwater, Okla., 115 pp.

WILLIAMS, DONALD T., JR., Assistant Professor

Articles

Report analysis: Franks and Muscatine—the workings of faculty committees. *Harvard Educ. Rev.*, 38:558-70.

WILSEY, CARL E., Associate Professor

Articles

Problem solver number one. *Amer. Sch. Bd. J.*, 155, 10:14-15.

Are you ready for your own data processing center? *Amer. Sch. and Univ.*, 41, 2: 33, 52.

WOLFF, JOSEPH L., Associate Professor

Articles

With J. T. Guthrie

Overtraining and stimulus change in extradimensional shifts. *Psychon. Sci.*, 13: 309-10.

ZACCARIA, JOSEPH S., Associate Professor

Books

With H. M. Moses

Facilitating human development through reading. Stipes Pub. Co., Champaign, Ill., 270 pp.

Articles

The behavioral sciences and the identity crisis of student personnel work. *J. Natl. Assn. Women Deans and Coun.*, 31:103-5.

With A. H. Byers

Recalled early parent-child relations, adult needs, and occupational choice: a test of Roe's hypothesis. *J. Counsel. Psychol.*, 15: 324-28.

With H. A. Moses

The nature and use of bibliotherapy in the rehabilitative process. *Rehab. Couns. Bull.*, 11, 3:155-63.

ZIMMERMAN, MARILYN P., Associate Professor

See Music.

DOCTORAL DISSERTATIONS

Alexander, Henry W. (W. J. Moore, Adviser), An investigation of the Cloze Procedure as a measuring device designed to identify the independent, instruction, and frustration reading levels of pupils in the intermediate grades.

Anderson, Eugene M. (L. E. Metcalf, Adviser), An exploratory study of the relationship between kinds of concepts and teaching strategies.

Ashcraft, Norman C. (L. E. McCleary, Adviser), Differential space needs of curricula in the comprehensive junior college.

Bailey, Larry J. (T. S. Baldwin, Adviser), An investigation of the vocational behavior of selected women vocational education students.

Baldino, Peter A., Jr. (W. O. Stanley, Adviser), Josiah Royce on education: a preliminary study.

Balter, Alan L. (S. A. Kirk, Adviser), A development of a test of motor impairment.

Brynjolfsson, Kenneth L. (M. M. Ohlsen, Adviser), An investigation of the concurrent validity of the Bender Gestalt Test.

Campbell, Forrest K. (B. W. Bergethon, Adviser), A survey and appraisal of music programs of accredited two-year colleges of the United States.

Carey, Robert C. (W. P. McLure, Adviser), Income elasticities of educational demand and the property tax in the state of Illinois.

Dennis, John R. (M. Beberman, Adviser), Teaching selected geometry topics via a computer system.

Diliberto, Menno (R. N. Evans, Adviser), A method for evaluating short-term updating programs for vocational-technical teachers.

Elder, Harvey L. (R. E. Pingry, Adviser), The effects of teaching certain concepts of logic to college algebra students on verbalizations of discovered mathematical generalizations.

Evans, Howard M. (W. J. Moore, Adviser), An evaluation of the effects of junior high school special reading instruction upon subsequent reading performance.

Ferry, Richard E. (W. J. Moore, Adviser), An investigation of differences in language arts achievement caused by a planned program in personal writing.

Grant, Lawrence E. (F. M. Raubinger, Adviser), The staff utilization studies of the National Association of Secondary-school Principals: a study of private power in public education.

Gray, Charles E., Jr. (L. E. Metcalf, Adviser), Value education outcomes: implications for the social studies methods course.

Guthrie, John T. (R. C. Anderson, Adviser), The effect of two types of verbal hierarchy on problem solving.

Hipple, Theodore W. (J. J. DeBoer, Adviser), The values in four selected American novels and suggested uses of these values in high school English classes.

Holmes, Allen H. (R. E. Pingry, Adviser), Teaching the logic of statistical analysis by the Monte Carlo approach.

House, Ernest R. (L. E. McCleary, Adviser), An analysis of the role of the demonstration director.

Hughes, Loyd R. (L. J. Phipps, Adviser), The effects of selected occupational information upon the aspired socioeconomic status of pupils in agricultural occupations courses.

Jakubowski, Patricia A. (M. M. Ohlsen, Adviser), Expectancy and the effects of consistent and inconsistent contingent social reinforcement.

Jensen, Thomas R. (R. N. Evans, Adviser), Characteristics of public high school concurrent work-education programs for handicapped students.

Kampwirth, Thomas J. (T. E. Newland, Adviser), Experimental influences on dependency behaviors of kindergarten children.

Kurfman, Dana G. (L. E. Metcalf, Adviser), A curriculum revision evaluation model: its trout and revision.

Lacampagne, Robert J. (J. L. Walker, Adviser), A national study of selected attitudes and approaches to writing of twelfth grade students with superior writing performance versus those with average writing performance.

Lackner, Lois M. (R. E. Pingry, Adviser), The teaching of the limit and derivative

- concepts in beginning calculus by combinations of inductive and deductive approaches.
- LaFrance, Kennalee O. (C. H. Patterson, Adviser), Self-exploration in counseling as a function of conditioned positive and negative self-references.
- Limbacher, Philip C. (L. E. McCleary, Adviser), A study of the effects of micro-teaching experiences upon practice teaching classroom behavior.
- Luhmann, Philip R. (W. P. McLure, Adviser), Cost accounting for individual student programs.
- Madden, George R. (M. R. Sumption, Adviser), A conceptual analysis of collective bargaining in education and some implications for school organizations.
- Marcum, Roger B. (M. R. Sumption, Adviser), An exploration of the first-year effects of racial integration of the elementary school in a unit school district.
- Martin, Glen R. (C. H. Patterson, Adviser), Job satisfaction in practical nursing as a function of measured and expressed interests.
- Mayer, Leon A. (L. J. Phipps, Adviser), Occupational education for meat inspection and laboratory animal caretaker jobs.
- Mayberry, William E. (J. T. Hastings, Adviser), The effects of the teacher's affective behavior on student attitudes and achievement: an experimental study of alienative classroom environments.
- McGreal, Thomas L. (L. E. McCleary, Adviser), An investigation of organizational variables affecting teacher satisfaction and dissatisfaction.
- McLure, John W. (F. M. Raubinger, Adviser), The Illinois superintendent of public instruction, 1854-1894, a study in educational leadership.
- Metzcus, Richard H. (W. P. McLure, Adviser), Community human resources and local financial support for public schools.
- Morgan, Barbara W. (R. S. Jones, Adviser), Effects of repetition of paired associates on acquisition and retention processes.
- Muhm, John B. (F. M. Raubinger, Adviser), A study of the relationship between the organizational climate of elementary schools and the occupational characteristics of principals as perceived by teachers.
- Nelson, Paul A. (J. H. Shores, Adviser), Attitudes held by elementary education teachers toward the developmental potential of the content areas.
- O'Daffer, Phares G. (R. E. Pingry, Adviser), An exploratory study of the abilities of fifth and seventh grade mathematics students to learn finite group properties and structures.
- Piper, Donald L. (L. E. McCleary, Adviser), Generation of organizational climate dimensions within organization communication structures.
- Pyper, John R. (C. Bereiter, Adviser), Attentional factors in learning from written texts.
- Rabin, Marvin J. (C. Leonhard, Adviser), History and analysis of the Greater Boston Youth Symphony Orchestra from 1958 to 1964.
- Rapparlie, Evalyn R. (J. H. Shores, Adviser), Descriptive analysis of a problem-solving approach to the teaching of critical thinking with primary children.
- Rector, Robert E. (K. B. Henderson, Adviser), The relative effectiveness of four strategies for teaching mathematical concepts.
- Renfrow, Omer W. (W. P. McLure, Adviser), Dropout prone and non-dropout prone high school boys: a study of differences.
- Riegert, James F. (M. M. Ohlson, Adviser), The effect of group counseling on the academic performance of marginal risk college freshmen.
- Rubin, Stanford E. (C. H. Patterson, Adviser), Direct reinforcement, vicarious reinforcement and reason in behavior modification.
- Shuster, Susan K. (R. A. Henderson, Adviser), An analysis of leadership styles of recreation leaders in a setting for normal and educable mentally handicapped children.
- Simmons, Wilber D. (J. J. Gallagher, Adviser), Superior women college students: a study of their self concepts and academic motivation.
- Sinks, Thomas A. (J. H. Shores, Adviser), How individualized instruction in junior high school science, mathematics, language arts, and social studies affects student achievement.
- Snook, Ivan A. (B. O. Smith, Adviser), Indoctrination and the teaching of religion.
- Suzuki, Warren N. (T. S. Baldwin, Adviser), A study of the images of nursing occupations: a view by practical nursing students.
- Swanson, Richard A. (T. S. Baldwin, Adviser), Auditory automotive mechanics diagnostic achievement test.
- Thomson, Joseph W. (C. Bereiter, Adviser), The implicit unit of linguistic analysis used by advantaged and disadvantaged children.
- Tilley, Alicia C. (C. H. Patterson, Adviser), Staff orientation and elementary counselor trainees' role perceptions.
- Vanderbeke, Lois M. (K. B. Henderson, Adviser), The first calculus textbook: *Analyse des Infiniment Petits*.
- Vlasak, Richard F. (V. Miller, Adviser), "High" and "low" authoritarian superintendents: their choice of elementary principals and selection procedures emphasized.
- Washington, Ernest D. (C. Bereiter, Adviser), Matching and naming letters of the alphabet with and without redundant color cues.
- Wichiarajote, Nuanpen K. (G. M. Blair, Adviser), A cross-cultural study of societal values and personality of Thai and American adolescents.
- Wichiarajote, Weerayudh (J. T. Hastings, Adviser), Semantic feature analyses of role differentiation: a potential model for cross-cultural research.
- Willerman, Marvin (F. P. Barnes, Adviser), A study of the effect of objective student information on teacher perception of culturally disadvantaged students.
- Wortman, John P. (M. M. Ohlsen, Adviser), Fifth grade students' perceptions of the elementary school counselor.
- Wyatt, Kenneth E. (R. N. Henderson, Adviser), Current employment and possible future needs for leadership personnel in special education.

ELECTRICAL ENGINEERING

ADES, HARLOW W., Professor

Articles

With Mary Jayne Capps

Auditory frequency discrimination after transection of the olivocochlear bundle in squirrel monkeys. *Exper. Neurol.*, 21: 147-58.

With H. Engstrom, A. Andersson, G. Bredberg, G. Lindeman, H. Lindeman

Cytoarchitecture of the normal and pathologically altered inner ear. *Hals- und Ohrenheilkunde, Gegenwartiger Stand der Cochleaforschung, Heft 20:35-53.*

Reviews

Contributions to sensory physiology, II, ed. by W. D. Neff. *Contemporary Psychology, 13, 9:442.*

AKITT, DONALD P., Assistant Professor

Articles

With C. J. Johnson

Sonic detection of a pulsed water vapor laser. *Proc. IEEE, 56, 4:740-41.*

ASHBY, WILLIAM R., Professor

Articles

The set theory of mechanism and homeostasis. In *Automaton theory and learning systems*, ed. by Stewart, Academic Press, London, pp. 23-51.

Some consequences of Bremermann's limit for information-processing systems. In *Cybernetic problems in bionics*, ed. by Oestreicher and Moore, Gordon and Breach, Sci. Pubs., N.Y., pp. 69-76.

Information-processing in everyday human activity. *Bio-Science, 18, 3:190-92.*

The place of the brain in the natural world. *Currents in Modern Biol., 1, 1:95-104.*

The contribution of information theory to pathological mechanisms in psychiatry. *Brit. J. Psychiat., 114, 6:1485-98.*

Reviews

Great ideas in information theory, language, and cybernetics, by Jagjit Singh. *Qt. Rev. Biol., 43, 1:223-24.*

Politics of experience, by R. D. Laing. *Philos. Forum, 7, 1:84-86.*

BABB, DANIEL S., Professor

Books

Resistive circuits. Intl. Textbook Co., Scranton, Pa., 313 pp.

BITZER, DONALD L., Professor

Articles

With H. G. Slottow

Principles and applications of the plasma display panel. *Proc. OAR Res. Applications Conf., Ofc. Aeronautics Research, Arlington, Va., 1:A1-A43.*

BOWHILL, SIDNEY A., Professor

Articles

Review of electron temperature work presented at Belgrade meeting. *Progress in Radio Science 1963-66, Part 1, Intl. Sci. Radio Union, Brussels 1967, pp. 980-84.*

BREDBERG, GORAN M., Visiting Research Associate

Articles

Cellular pattern and nerve supply of the human organ of Corti. *Acta Oto-Laryngologica, Suppl. 236:1-135.*

Cochlear structure and hearing in man. In *Ciba foundation symposium on hearing mechanisms in vertebrates*, ed. by A. V. S. de Reuck, Julie Knight, J & A Churchill Ltd., London, pp. 126-39.

With H. W. Ades, H. Engstrom, A. Andersson, G. Lindeman, H. Lindeman

Cytoarchitecture of the normal and pathologically altered inner ear. *Hals-, Nasen-*

und Ohrenheilkunde, Gegenwartiger Stand der Cochleaforschung, Heft 20:35-53.

CAHN, JULIUS H., Associate Professor

Articles

The space distribution of planetary nebulae. In *Planetary nebulae*, ed. by Osterbrock and O'Dell, I.A.U. Symposium No. 34, pp. 44-50.

CAPPS, MARY JAYNE, Research Associate

Articles

With H. W. Ades

Auditory frequency discrimination after transection of the olivocochlear bundle in squirrel monkeys. *Exper. Neurol., 21: 147-58.*

With C. W. Stockwell

Lesions in the midbrain reticular formation and the startle response in rats. *Physiol. Behav., 3:661-65.*

CHERRINGTON, BLAKE E., Assistant Professor

Articles

With E. E. Wisniewski, M. E. Fein, J. T. Verdeyen

Thermal production of a population inversion in carbon dioxide. *Appl. Phys. Letters, 12, 8:257-58.*

With P. A. Miller, J. T. Verdeyen

Dynamics of optical mixing in a He-Ne laser. *IEEE J. Quantum Electronics, 4, 10: 686-92.*

CHIEN, ROBERT T., Professor

Articles

With H. T. Hsu, T. Kasami

Coding for compound channels. *IEEE Trans. Inf. Theory, 14, 1:135-39.*

With S. J. Hono, F. P. Preparata

Some contributions to the theory of arithmetic codes. *Proc. Hawaii Intl. Conf. on Sys. Sci., pp. 460-63.*

With F. P. Preparata

Search strategy and file organization in computerized information retrieval systems with mass memory. *Proc. F.I.D./I.F.I.P. Conf. 1967 on Mechanized Inf. Storage Retrieval and Dissem., pp. 108-21.*

With K. K. Tzeng

On iterative decoding of BCH codes. *Proc. 1968 Midwest Circuit Theory Symp., pp. 599-600.*

With T. S. Tang, E. S. Barrekette, A. Katcher

Analysis and improvement of photostore error rates. *Proc. IEEE, 56, 5:805-12.*

With I. Oldham, D. T. Tang

Error correction in a photo-digital mass storage system. *IBM J. Res. and Dev., 12, 6:422-30.*

With V. Lum

On the minimum distance of Bose-Chaudhuri-Hocquenghem codes. *SIAM J. Appl. Math., 16, 6:1325-37.*

COLEMAN, PAUL D., Professor

Articles

Measurement of the complex dielectric constants of materials in the microwave-optic region. *OAR Res. Rev., 7:1-5.*

With G. Goubau

Beam waveguides. In *Microwave power engineering*, ed. by E. C. Okress, Academic Press, N.Y., pp. 228-40.

With W. Q. Jeffers

Relaxation phenomena in the water vapor laser. *Appl. Phys. Letters*, 13:250-52.

CROWLEY, JOSEPH M., Assistant Professor
Articles

Lateral instability of a stream of charged droplets. *Phys. Fluids*, 11:1372-74.

Growth of waves on an accelerated jet. *Ibid.*, pp. 2172-78.

CRUZ, JOSE B., JR., Professor

Articles

With W. R. Perkins, R. L. Gonzales

Design of minimum sensitivity systems. *IEEE Trans. Automatic Control*, AC-13, 2: 159-67.

With P. V. Kokotović, J. E. Heller, P. Sannuti

Synthesis of optimally sensitive systems. *Proc. IEEE*, 56, 8:1318-24.

With R. G. Stefaneck

Use of switch time sensitivities to provide near optimal control. *Proc. IFAC Symp. Sys. Sensitivity and Adaptivity*, Dubrovnik, Yugoslavia, C.1-C.12.

DUNN, FLOYD, Professor

Articles

Ultrasonic absorption characteristics of biological media. *Acta Facult. Medic. Univ. Brunensis*, 35:175-82.

With R. M. Macleod

Effects of intense noncavitating ultrasound on selected enzymes. *J. Acoust. Soc. Am.*, 44: 932-40.

With J. E. Green

Correlation of naturally occurring infrasonics and selected human behavior. *Ibid.*, pp. 1456-57.

ERNST, EDWARD W., Professor

Articles

Laboratory programs — what they are, what they should be. *Proc. Conf. Lab. Oriented Studies for Eng. Students*, Univ. Ill. Eng. Pub. Ofc., pp. 7-18.

With J. O. Kopplin, E. C. Jones, Jr.

The self-demonstration laboratory. *Ibid.*, pp. 30-46.

FRY, WILLIAM J., Professor

Articles

Intracranial anatomy visualized *in vivo* by ultrasound. *Investigative Radiology*, 3: 243-66.

Electrical stimulation of brain localized without probes — Theoretical analysis of a proposed method. *J. Acoust. Soc. Am.*, 44: 919-31.

With G. H. Leichner, D. Okuyama, F. J. Fry, Elizabeth K. Fry

Ultrasonic visualization system employing new scanning and presentation methods. *Ibid.*, p. 1324.

GADDY, OSCAR L., Associate Professor

Articles

With G. W. Day

Electric field induced optical rotation in cholesteric liquid crystals. *Proc. IEEE*, 56, 6:1113-14.

With R. W. Uhlhorn

Electrooptic behavior of monodisperse nontronite sols. *Ibid.*, pp. 1140-41.

With G. W. Day, R. Iversen

Detection of fast infrared laser pulses with thin film thermocouples. *Appl. Phys. Letters*, 15, 19:289-90.

With R. Iversen

A simple method of preparing magnesium oxide secondary emission surfaces. *Rev. Sci. Instr.*, 39, 12:1950.

GOLDSTEIN, LADISLAS, Professor

Articles

With J. P. Kaplafka, H. Merkelo

Evidence of low binding energy electrons in a low-temperature helium afterglow. *Phys. Rev. Letters*, 21, 14:970-73.

HADDAD, ABRAHAM H., Assistant Professor

See Coordinated Science Laboratory.

HANDLER, PAUL, Professor

See Physics.

HANG, DANIEL F., Associate Professor

Articles

With E. F. Koncel

Economic effects of nuclear fuel management. *Am. Power Conf.*, 30:15.

With E. C. Jones, Jr., G. P. Beck,

N. H. Schilmoeller

Thermal analysis of forced cooling system of the Illinois Advanced TRIGA reactor. *Trans. ANS*, 11, 1:268.

HENDRICKS, CHARLES D., JR., Professor

Articles

Uniform particle sources for pollution research. *APCA Journal*, 18, 10:69-70.

With T. Erin

Uniform charged solid particle production. *Rev. Sci. Instr.*, 39, 9:1269-71.

With J. A. Robertson

Economical, single scale, ionization gauge pressure readout system. *Ibid.*, 8:1190-94.

With D. S. Swatik

Production of ions by electrohydrodynamic spraying techniques. *AIAA Journal*, 6, 8: 1596-97.

With J. R. Adam, N. R. Lindblad

The collision, coalescence, and disruption of water droplets. *J. Appl. Phys.*, 39, 11: 5173-80.

With R. J. Pfeifer

Charge-to-mass relationships for electrohydrodynamically sprayed liquid droplets. *Physics of Fluids*, 10:2149.

Parametric studies of electrohydrodynamic spraying. *AIAA Journal*, 6, 3:496.

With J. B. Y. Tsui

Production of uniform droplets by means of ion drag pump. *Rev. Sci. Instr.*, 39, 11: 1088.

HOLONYAK, NICK, JR., Professor

Books Edited

Fundamentals of silicon integrated device technology, II. Prentice-Hall, Englewood Cliffs, N.J., 480 pp.

Solid state physical electronics (2nd ed.). *Ibid.*, 633 pp.

Articles

With M. R. Johnson, D. L. Keune

High transparency of thin platelet semiconductor laser. *IEEE J. Quantum Electronics*, QE-4:199.

With M. R. Johnson, J. R. Rossi, W. O. Groves
Many-body wavelength shift in a semiconductor laser. *Appl. Phys. Letters*, 12:151.

With M. R. Johnson
Optically pumped thin-platelet semiconductor lasers. *J. Appl. Phys.*, 39:3977.

With A. S. Epstein
Semiconductor lamp prospects glow brighter and brighter. *Electro-Technology*, 83:35.

With J. A. Rossi, P. D. Dapkus, F. V. Williams, J. W. Burd
The laser transition and photon energy of GaAs in the lightly-doped limit. *Appl. Phys. Letters*, 13:117.

With M. G. Craford, G. E. Stillman, J. A. Rossi
The effect of Te and S donor levels on the properties of GaAs_{1-x}P_x near the direct-indirect transition. *Phys. Rev.*, 168:867.

JORDAN, EDWARD C., Professor and Head of Department

Books

With K. G. Balmain
Electromagnetic waves and radiating systems (2nd ed.). Prentice-Hall, Englewood Cliffs, N.J., 753 pp.

KAPLAFKA, JAMES P., Research Associate

Articles

With H. Merkelo, L. Goldstein
Evidence of low-binding-energy electrons in a low-temperature helium afterglow. *Phys. Rev. Letters*, 21, 14:970-73.

With H. Merkelo, R. H. Wright, Jr., E. P. Bialecke
Anomalous behavior of the competition between the laser transitions of the argon ion laser. *Appl. Phys. Letters*, 12, 10:337-39.

KOKOTOVIĆ, PETAR V., Associate Professor

Articles

With P. Sannuti
Singular perturbation method for reducing the model order in optimal control design. *IEEE Trans. Automatic Control*, AC-13, 4:377-84.

With A. Haddad
Estimators for optimally sensitive systems. *Proc. IEEE*, 56, 8:1399-1400.

With J. B. Cruz, Jr., J. Heller, P. Sannuti
Synthesis of optimally sensitive systems. *Proc. IEEE*, 56, 8:1318-24.

KOSSOFF, GEORGE, Visiting Research Associate

Articles

With D. C. Robinson, W. J. Garrett
Ultrasonic two-dimensional visualization for medical diagnosis. *J. Acoust. Soc. Am.*, 44, 5:1310-18.

The diagnosis of hydatidiform mole by ultrasound. *Australian and New Zealand J. Obst. and Gyn.*, 8, 2:74-78.

With J. H. Stranger, D. A. O'Dell, D. E. Robinson

The routine use of echography in an x-ray department as an adjunct to routine skull radiology. *Australian Radiology*, 12, 1:12-17.

KUO, BENJAMIN C., Professor

Articles

With D. Tabak
A nonlinear programming approach to optimal

control of discrete systems with constrained sampling times. *Proc. Joint Automatic Control Conf.*, pp. 918-22.

LEE, SHUNG-WU, Assistant Professor

Articles

With R. Mittra

Edge condition and "intrinsic loss" in uniaxial plasmas. *Canadian J. Phys.*, 46: 111-20.

Diffraction by a thick conducting half-plane and a dielectric-loaded waveguide. *IEEE Trans. Antennas and Propagation*, AP-16, 4:454-61.

Radiation from dielectric-loaded array of waveguides. *Ibid.*, 5:513-19.

With R. Mittra, G. F. VanBlaricum

A modified residue calculus technique. *Intnl. J. Eng. Sci.*, 6:395-408.

LIU, CHAO-HAN, C. H., Assistant Professor

Articles

Wave propagation in a random medium with stratified background. *Radio Science*, 3:551-59.

With K. C. Yeh

Displacement of rays in a turbulent medium. *IEEE Trans. Antennas and Propagation*, AP-16, 6:678-83.

LO, YUEN T., Professor

Articles

Random periodic arrays. *Radio Science*, 3, 5:425-36.

With J. H. Bruning

Electromagnetic scattering by two spheres. *Proc. IEEE*, 56, 1:119-20.

With V. D. Agrawal

A method for removing blindness in phased arrays. *Ibid.*, 9:1586-88.

With C. S. Liang

A multipole-field study for the multiarm log-spiral antennas. *IEEE Trans. Antennas and Propagation*, AP-16, 6:656-64.

MAYEDA, WATURA, Professor

Articles

Elimination of subgraphs in a signal flow graph. *Proc. 5th Ann. Allerton Conf. Circuit and Sys. Theory*, pp. 671-82.

Maximum flow under controlled edge flows. *Proc. 1968 IEEE Intl. Conf. Commun.*, pp. 694-98.

With S. L. Hakimi, W. K. Chen, N. Deo

Generation of complete trees. *IEEE Trans. Circuit Theory*, CT-15, 2:101-5.

MAYES, PAUL E., Professor

Articles

With P. G. Ingerson

Log-periodic antennas with modulated impedance feeders. *IEEE Trans. Antennas and Propagation*, AP-16, 6:633-42.

MECHTLY, EUGENE A., Assistant Professor

Articles

With L. G. Smith

Growth of the D-region at sunrise. *J. Atmosph. Terr. Phys.*, 30:363-69.

Seasonal variation of the lower ionosphere at Wallops Island during the IQSY. *Ibid.*, pp. 1555-61.

With J. S. Shirke

Rocket electron concentration measurements on winter days of normal and anomalous absorption. *J. Geophys. Res.*, 73:6243-47.

With P. E. Monro, R. S. Sastry

Analysis of ordinary mode standing waves observed by rockets in the E-region. *Ibid.*, pp. 4291-97.

MERKELO, HENRY, Assistant Professor

Articles

With R. H. Wright, E. P. Bialecke,
J. P. Kaplafka

Anomalous behavior of the competition between the lasing transitions of the argon ion laser. *Appl. Phys. Letters*, 12:337.

Vacuum ultraviolet perturbation spectroscopy on the argon ion laser. *Appl. Phys. Letters*, 13:401.

With J. P. Kaplafka, L. Goldstein

Evidence of low-binding-energy electrons in a low-temperature helium afterglow. *Phys. Rev. Letters*, 21:970.

METZE, GERNOT, Associate Professor

See Coordinated Science Laboratory.

MILEY, GEORGE H., Professor

Articles

With J. E. Herceg

A laser utilizing a low-voltage arc discharge in helium-neon. *J. Appl. Phys.*, 39, 4:2147-49.

Studies of a low-voltage arc laser. *Trans. Am. Nucl. Soc.*, 11, 1:16-17.

With H. Hassan

A comparison of calculated and experimental space-time dependent kinetics. *Ibid.*, p. 229.

A determination of the dynamic coupling coefficient. *Ibid.*, 2:575-76.

With P. K. Doshi

Reactor neutron pulse propagation in multiplying media. *Ibid.*, 1:191.

With H. T. Sampson

High-voltage gamma-electric cell operation. *Nucl. Applications*, 5:145-55.

With H. A. Kurstedt, Jr.

A temperature formulation of the reactor kinetics equations. *Trans. Am. Nucl. Soc.*, 11, 2:576-77.

MITTRA, RAJ, Professor

Articles

With C. P. Bates

Waveguide excitation of dielectric and plasma slabs. *Radio Sci.*, 3, 3:251-66.

With S. W. Lee

Diffraction by thick conducting half-plane and a dielectric-loaded waveguide. *IEEE Trans. Antennas and Propagation*, AP-16, 4:454-61.

Edge condition and "intrinsic loss" in uniaxial plasma. *Can. J. Phys.*, 46:111-20.

Radiation from dielectric-loaded arrays of parallel-plate waveguide. *IEEE Trans. Antennas and Propagation*, AP-16, 5:513-20.

With G. F. VanBlaricum, Jr., S. W. Lee

A modified residue calculus technique. *Intnl. J. Eng. Sci.*, 6:395-408.

With D. K. Waingo

Short dipole in a uniaxial plasma. *Appl. Sci. Res.*, 19, 4:60-69.

With E. Yamashita

Variational method for the analysis of microstrip lines. *IEEE Trans. Microwave Theory and Techniques*, MTT-16, 4:251-56.

MUROGA, SABURO, Professor

Reviews

Threshold logic, by P. M. Lewis, II, C. L. Coates. *IEEE Spectrum*, 7:136.

NARAYANA RAO, N., Assistant Professor

Articles

Ray tracing investigation of direction of arrival observations of HF radio waves. *Radio Science* (New Series), 3, 8:796-802.

Synthesis of oblique ionograms for a quasi-linear ionospheric model and spherical earth-ionosphere geometry. *IEEE G-AP Trans.*, AP-16, 6:771.

Bearing deviation in HF transionospheric propagation, I. Exact computations for some ionospheric models with no magnetic field. *Radio Science* (New Series), 3, 12: 1113-18.

Bearing deviation in HF transionospheric propagation, II. Applications of exact computations. *Ibid.*, pp. 1119-23.

With K. C. Yeh

Large-scale ionospheric irregularities deduced from Faraday rotation observations at three stations. *Space Res.*, North-Holland Pub. Co., Amsterdam, 8:413-19.

Comparison of Faraday and Doppler methods of obtaining ionospheric electron content. *J. Geophys. Res.*, 73, 7:2447-58.

With J. A. Klobuchar

Comparison of ionospheric electron content observations at different stations, *Ibid.*, 19:6373-78.

NEAL, JAMES P., Associate Professor

Articles

Why bury the knowledge? (Trans. into Japanese.) *J. Japan Information Center Sci. and Tech.*, 11, 4:186-91.

PERKINS, WILLIAM R., Associate Professor

Articles

With J. B. Cruz, Jr., R. L. Gonzales

Design of minimum sensitivity systems. *IEEE Trans. Automatic Control*, AC-13: 159-67.

With D. F. Wilkie

Essential parameters in sensitivity analysis. *Proc. 2nd IFAC Symp. Sys. Sensitivity and Adaptivity*, ETAN, Yugoslavia, pp. B.20-B.35.

Generation of sensitivity functions for linear systems using low order models. *Proc. 6th Ann. Allerton Conf. Circuit and Sys. Theory*, Univ. Ill., pp. 598-614.

PIERRET, ROBERT F., Assistant Professor

Articles

Frequency variation of the MOS-transistor $V_0 = 0$ admittance. *Solid State Electronics*, 11:253-60.

With C. T. Sah

An MOS-oriented investigation of effective mobility theory. *Ibid.*, pp. 279-90.

PREPARATA, FRANCO P., Associate Professor

See Coordinated Science Laboratory.

RUSSELL, JOHN K., Assistant Professor

Books Edited

With H. von Foerster, J. D. White,
L. J. Peterson

Purposive systems. *Proc. 1st annual symposium of the American Society for Cybernetics*, Spartan, N.Y., 179 pp.

Articles

A visual image processor. *IEEE Trans. Electronic Computers, EC-17*, 7:635-39.

SAH, CHIH-TANG, Professor

Articles

Excess currents in semiconductor tunneling. In *Tunneling in solids*, ed. by E. Burstein, Plenum Pub. Corp., N.Y., 189-201.

With D. K. Schroder

Effects of multiply-charged gold impurity on the breakdown voltage of silicon p-n junctions. *Appl. Phys. Letters, 12*:141-42.

With R. F. Pierret

An MOS-oriented investigation of effective mobility theory. *Solid State Electronics, 11*:279-90.

With D. K. Schroder, A. F. Tasch

The spatial variation of the charged gold concentration in silicon step junctions. *IEEE Trans. Electron Devices, ED-15*:553-59.

With T. L. Chiu

Theory and experiments on the saturation drain conductance of MOS transistors. *Solid State Electronics, 11*:1149-63.

SATO, SHUICHI, Research Associate

Articles

Electrical properties of the defects near the surface of thermally oxidized silicon. In *Lattice defects in semiconductors*, ed. by R. Hashiguchi, Penn. State Univ. Press, State College, 427-37.

SECHRIST, CHALMERS F., JR., Associate Professor

Articles

Interpretation of pre-sunrise electron densities and negative ions in the D-region. *J. Atmosph. Terr. Phys., 30*:371-89.

SLOTTOW, HIRAM G., Associate Professor

See Coordinated Science Laboratory.

SWENSON, GEORGE W., JR., Professor

See Astronomy.

TRICK, TIMOTHY N., Assistant Professor

See Coordinated Science Laboratory.

TURNBULL, ROBERT J., Assistant Professor

Articles

Electroconvective instability with a stabilizing temperature gradient I. Theory. *Physics of Fluids, 11*:2588.

Electroconvective instability with a stabilizing temperature gradient II. Experimental results. *Ibid.*, p. 2597.

VERDEYEN, JOSEPH T., Associate Professor

Articles

With E. Wisniewski, M. E. Fein, B. E. Cherrington

Thermal production of a population inversion in carbon dioxide. *Appl. Phys. Letters, 12*, 8:257.

With J. B. Gerardo

Off-axis excitation of the coupled cavity spherical laser interferometer. *Appl. Optics, 7*:1467.

With P. A. Miller, B. E. Cherrington

Dynamics of optical mixing in a He:Ne laser. *IEEE J. Quantum Electronics, QE-4*, 10:686.

VON FOERSTER, HEINZ M., Professor

Books Edited

With J. D. White, L. J. Peterson, J. K. Russell

Purposive systems. *Proc. 1st annual symposium of the American Society for Cybernetics*, Spartan, N.Y., 179 pp.

Articles

With A. Inselberg, P. Weston

Memory and inductive inference. In *Bionics symposium 1966: cybernetic problems in bionics*, ed. by Oestreicher and Moore, Gordon and Breach, Sci. Pubs., N.Y., pp. 31-68.

YEH, KUNG C., Professor

Articles

With N. Narayana Rao

Comparison of Faraday and Doppler methods of obtaining ionospheric electron content. *J. Geophys. Res., 73*:2447-58.

Large scale ionospheric irregularities deduced from Faraday rotation observations at three stations. *Space Res., VIII*, North-Holland Pub. Co., Amsterdam, 8:413-19.

With K. C. So

Generalized stochastic equations. *J. Phys. A., (Proc. Phys. Soc.), 1*, Ser. 2:447-54.

With C. H. Liu

Displacement of rays in a turbulent medium. *IEEE Trans. Antennas and Propagation, AP-16*:678-83.

With D. Simonich, J. Mawdsley, G. F. Preddy

Scintillation observations at medium latitude geomagnetically conjugate stations. *Radio Science, 3*:690-97.

DOCTORAL DISSERTATIONS

Afuso, Chushin (W. J. Poppelbaum, Adviser), Analog computation with random pulse sequences.

Bourquin, Jack J. (J. B. Cruz, Jr., Adviser), Stability of a class of lumped-distributed systems.

Breeding, Kenneth J. (S. Muroga, Adviser), An approach to the general synthesis of a threshold element network.

Chiu, Te-Long (C. T. Sah, Adviser), Experiments and theory on the characteristics of metal-oxide-semiconductor transistors in the current saturation range.

Cho, Alfred (C. D. Hendricks, Adviser), Mean adsorption lifetimes and binding energies of silver and gold on clean, oxygenated and carburized tungsten surfaces.

Chow, David K. (R. T. Chien, Adviser), A geometric approach to coding theory with application to information retrieval.

Conant, Roger C. (W. R. Ashby, Adviser), Information transfer in complex systems, with applications to regulation.

Davidson, Edward S. (G. A. Metzger, Adviser), An algorithm for nand decomposition of combinational switching functions.

Heeren, Robert G. (M. D. Sirkis, Adviser), A thin film coupler for microwave harmonic generation.

Ingerson, Paul G. (P. E. Mayer, Adviser), Analysis of some closed log-periodic structures with applications to log-periodic antennas.

Johnson, Milo R. (N. Holonyak, Adviser), Optically pumped thin platelet semiconductor lasers.

Keenan, William F. (C. D. Hendricks, Ad-

- viser), The interaction of water vapor on a heated tungsten surface.
- Kelly, Donald H. (G. H. Fett, Adviser), Double rotor induction motor.
- Kessler, Lawrence W. (F. Dunn, Adviser), The absorption of ultrasound in aqueous solutions of bovine serum albumin and polyethylene glycol.
- Koo, Tuh K. (W. T. Poppelbaum, Adviser), Opto-electronic switching matrix.
- Kubitz, William J. (W. T. Poppelbaum, Adviser), A tricolor cartograph.
- Liu, Chi-Sheng (J. T. Verdeyen, Adviser), Dispersion effects in a high gain 3.39 μ He-Ne laser: application to the laser heterodyne measurement of plasma density.
- Nuspl, Stephen J. (J. E. Robertson, Adviser), On the use of finite field based modeling in polynomial manipulation.
- Sannuti, Peddapullaiah (J. B. Cruz, Jr., Adviser), Singular perturbation method in the theory of optimal control.
- Schroder, Dieter K. (C. T. Sah, Adviser), Impedance and other properties of gold doped silicon P-N junctions.
- Stefanek, Robert G. (J. B. Cruz, Jr., Adviser), Optimization of systems containing discontinuous elements.
- Tabak, Daniel (B. C. Kuo, Adviser), Application of mathematical programming in the design of optimal control systems.
- Tracey, Robert J. (R. B. Ash, Adviser), Lattice coding for continuous channels.
- Vanblaricum, Glenn F., Jr. (R. Mitra, Adviser), Some analytical methods for solving a class of boundary value problems.
- Wilkie, Dennis F. (W. R. Perkins, Adviser), Use of the companion transformation in parameter optimization and adaptive control.
- Ziolkowski, Fredric P. (P. E. Mayes, Adviser), Investigations of normal mode helical dipoles.

ENGINEERING ADMINISTRATION

DRUCKER, DANIEL C., Dean of College of Engineering and Professor of Civil Engineering

Articles

- On the continuum as an assemblage of homogeneous elements or states. In *Irreversible aspects of continuum mechanics and transfer of physical characteristics in moving fluids*, IUTAM Symposium, Vienna 1966, ed. by H. Parkus, L. I. Sedov, Springer-Verlag, Vienna, pp. 77-93.
- Thoughts on the present and future interrelation of theoretical and experimental mechanics, 1967 William M. Murray Lecture. *Exper. Mechanics*, pp. 1-10.
- Macroscopic fundamentals in brittle fracture. In *Treatise on fracture*, ed. by H. Liebowitz, Academic Press, N. Y., pp. 473-531.
- Closing comments of session II, *Symposium on mechanical behavior of materials under dynamic loads*, ed. by U.S. Lindholm, Springer-Verlag, N.Y., pp. 405-9.

With D. Rubin

- On stability of viscoplastic systems with thermo-mechanical coupling. In *Contributions to mechanics, the Markus Reiner 80th anniversary volume*. Pergamon Press, N.Y., pp. 171-79.

With W. F. Chen

- On the use of simple discontinuous fields to bound limit loads. In *Engineering plasticity*, ed. by J. Heyman, F. A. Leckie, Cambridge Univ. Press, London, pp. 129-45.

EVERITT, WILLIAM L., Dean Emeritus of College of Engineering

Books Edited

- Elementary nonlinear electronic circuits. Prentice-Hall, Englewood Cliffs, N.J., 272 pp.
- State space analysis of control systems. *Ibid.*, 596 pp.
- Fundamentals of silicon integrated device technology. *Ibid.*, 495 pp.
- Switching circuits for engineers (2nd ed.). *Ibid.*, 338 pp.
- Integrated and active network analysis and synthesis. *Ibid.*, 427 pp.
- Automatic control systems (2nd ed.). *Ibid.*, 523 pp.
- Large-signal transistor circuits. *Ibid.*, 268 pp.
- Introductory engineering field theory. *Ibid.*, 369 pp.
- Modern transistor electronics analysis and design. *Ibid.*, 555 pp.
- Electronics for scientists and engineers. *Ibid.*, 635 pp.

Articles

- Education: for such a time as this. In *1942-1967: Twenty-five years at RCA Laboratories*, pp. 34-45.

WAKELAND, HOWARD L., Associate Dean of College of Engineering and Professor of Agricultural Engineering

Articles

- The smoking volcano, development of junior colleges in Illinois. *Ill. Engr.*, 44, 7:5-7.

ENGLISH

ADELMAN, GARY S., Assistant Professor

Poems

- The painted tombs of Tarquinia. *D. H. Lawrence Rev.*, 1, 1:75-76.
- Hatpin Harry. *Poet*, March, pp. 23-24.
- Arrowhead. *Prairie Schooner*, Summer, pp. 138-39.
- Into the light. *Sou'wester*, II, 2:58.
- The balancing act. *Ibid.*, 2:59-61.

APPLEBEE, ROGER K., Lecturer

Books

With J. R. Squire

- High school English instruction today. Appleton-Century-Crofts, N.Y., 311 pp.

Reviews

- Guide to modern grammar and exposition, by William Schwab. *Coll. Comp. and Comm.*, 29, 2:173-75.

BAYM, NINA Z., Assistant Professor

Articles

- The blithedale romance: a radical reading. *JEGP*, 67, 4:545-69.

Reviews

- City of the west: Emerson, America, and urban metaphor, by Michael H. Cowan. *JEGP*, 67, 2:327-29.

BENNETT, SCOTT B., Assistant Professor

Books Edited

With Clara Kirk, R. Kirk

W. D. Howells, *The Altrurian romances*.
Indiana Univ. Press, Bloomington, 494 pp.

BERRY, LLOYD E., Professor

Books

John Stubb's *Gaping gulf* with letters and other relevant documents. (Folger Documents of Tudor and Stuart Civilization), Univ. Press Virginia, Charlottesville, 277 pp.

With R. O. Crummev

Rude and barbarous kingdom: Russia in the accounts of sixteenth-century English voyagers. Univ. Wis. Press, Madison, 415 pp.

Reviews

The works of Thomas Campion, ed. by Walter R. Davis. *JEGP*, 67:306-8.

CAMPBELL, JACKSON J., Professor

Reviews

The feats of *Beowulf*, by Jane A. Leake. *JEGP*, 67:691-94.

COSTELLO, MARK P., Assistant Professor

Short Stories

Murphy's Xmas. *Transatlantic Rev.*, 27, Winter, pp. 55-67.

CRISP, RAYMOND D., Research Associate

Articles

Current research in English teacher preparation: a first report. *ISCPET*, Univ. Ill. Press, Urbana, January. 17 pp.

CURLEY, DANIEL, Professor

Articles

Eudora Welty and the Quondam obstruction. *Studies in Short Fiction*, 5, 3:209.

The gingerbread man. In *Texas Qt.*, The Univ. Texas, Austin, Summer, pp. 111-28.

CURTIN, WILLIAM M., Associate Professor

Articles

Willa Cather: individualism and style. *Colby Library Qt.*, 8, 2:37-55.

DAVIDSON, EDWARD H., Professor

Books

Jonathan Edwards: the narrative of a Puritan mind. Harvard Univ. Press, Cambridge, Mass., 161 pp.

DOUGLAS, GEORGE H., Assistant Professor

Articles

Developing a logical approach to the teaching of business writing. *J. Bus. Comm.*, 5, 4:25-33.

Reviews

The new industrial state, by John Kenneth Galbraith. *Ibid.*, 5, 3:48-54.

Analytical writing, by Thomas P. Johnson. *Ibid.*, 6, 1:43-44.

DUNDAS, O. JUDITH, Assistant Professor

Articles

The rhetorical basis of Spenser's imagery. *SEL*, 8, 1:59-75.

DUSSINGER, JOHN A., Associate Professor

Articles

Richardson and Johnson: critical agreement on Rowe's *The fair penitent*. *ES*, 49:45-47.

Reviews

The comic art of Laurence Sterne, by John M. Stedmond. *JEGP*, 67, 2:311-14.

FLANAGAN, JOHN T., Professor

Books

Introduction. In *Selections from the poetical literature of the West*, by William D. Gallagher. Scholars' Facsimiles & Reprints, Gainesville, Fla., pp. v-xx.

Folklore. In *American literary scholarship, an annual/1966*, ed. by James Woodress. Duke Univ. Press, Durham, N.C., pp. 231-49.

Articles

John Henton Garter, alias "commodore roll-in-pin." *Mo. Hist. Rev.*, 63:38-54.

From La Pointe to the falls of St. Anthony in 1846. *Minn. Hist.*, 41:137-44.

A letter from Maurice Thompson. *Indiana Mag. Hist.*, 64:13-14.

Reviews

Our living traditions, ed. by Tristram P. Coffin. *J. Popular Culture*, 2:160-61.

The pioneer in the American novel, 1900-1950, by Nicholas J. Karolides. *J. Amer. Hist.*, 54:915.

The art of Sinclair Lewis, by D. J. Dooley. *JEGP*, 67:178-79.

The federal theatre, 1935-1939, by Jane De Hart Mathews. *Modern Drama*, 11:217-18.

Years of transition: the *Dial*, 1912-1920, by Nicholas Joost. *Amer. Literature*, 40:247-48.

FRIEDMAN, PAUL A., Assistant Professor

Articles

The metaphysics of the John Birch society. *N. Amer. Rev.*, 5, 1:33-35.

Short Stories

Portrait: my American man. In *New direction in prose and poetry*, ed. by J. Laughlin. New Directions, Inc., N.Y., pp. 63-69.

An American memory. *Quartet*, 24:16-18.

An evening of fun. *Perspective*, 15, 4:244-70.

Why Mrs. Barron perspires. *Florida Qt.*, 1, 3:27-40.

GETTMANN, ROYAL A., Professor

Books Edited

Vernon Lee, the handling of words and other studies in literary psychology. Univ. Nebr. Press, Lincoln, 315 pp.

Articles

Vernon Lee and aestheticism. *Prairie Schooner*, 42, 1:47-55.

HENDRICK, GEORGE, Professor

Articles

Almost everyone wants to be the lover: the fiction of Carson McCullers. *Books Abroad*, 42:389-91.

With Elizabeth Wright

Bibliography of short fiction explications, 1967. *Studies in Short Fiction*, 5:407-50.

HOMAN, SIDNEY R., Assistant Professor

Articles

An unconscious pearl among conscious swine. *JPC*, 2, 1:149-53.

HOOKE, JULIUS N., Professor

Articles

Changes in NCATE standards. *CEE Newsletter*, 2, 2:6-7.

Contributions of English language study to composition. *Ill. J. Educ.*, 59, 7:5-8.

A modular English program. *Educ. Comment* /1968, Univ. Toledo, Ohio, pp. 38-40.

The nine things that everybody says. *Taishukan: The English Teachers' Magazine* (Toyko), 17, 2:56-58.

JACOBS, PAUL H., Assistant Professor

Articles

The Illinois state-wide curriculum study center in the preparation of secondary school English teachers. In *Forging ahead on reading*, ed. by J. Allen Figurel. Proc. 12th Ann. Convention, Intl. Reading Assn., Newark, Del., 12, 1:322-29.

Criteria for evaluating high school English programs. *Engl. J.*, 57, 9:1275-96.

KINNAMON, KENETH, Assistant Professor

Reviews

The free-lance pallbearers, by Ishmael Reed. *Negro Amer. Lit. Forum*, 1:18.

KRAMER, DALE V., Associate Professor

Articles

The aesthetics of theme: Kafka's "In the penal colony." *Stud. Short Fiction*, 5, 4:362-67.

Passion in poetic theory: John Dennis and Wordsworth. *Neophilologische Mitteilungen*, 69, 3:421-27.

Structural artistry in *Amis* and *Amiloun*. *Annale Mediaevale*, 9:103-22.

Thematic structure in *Jane Eyre*. *Papers in Lang. and Lit.*, 4, 3:288-98.

With R. Freeman, others

Victorian bibliography for 1967. *VS*, 11, 4: 555-614.

Reviews

The art of Oscar Wilde, by Epifanio San Juan, Jr. *JEGP*, 67, 1:173-74.

Robert Browning's moral-aesthetic theory, 1833-1855, by Thomas J. Collins. *JEGP*, 67, 1:167-68.

The shaping of *The Dynasts*: a study in Thomas Hardy, by Walter F. Wright. *JEGP*, 67, 4:717-19.

LIEBERMAN, LAURENCE J., Associate Professor

Books

The achievement of James Dickey. Scott, Foresman and Co., Glenview, Ill., 86 pp.

The unblinding (a volume of poems). The Macmillan Company, N.Y., 89 pp.

Articles

The body of the dream. *Poetry*, 112, 2: 121-23.

Poems

Tarpon. In *Annual literary anthology #1*, Farrar, Straus & Giroux, N.Y., pp. 140-42.

Flying below sea level. *Hudson Rev.*, 21, 3: 462-65.

Flying on the surface. *Ibid.*, pp. 465-67.

The professionals. *New Orleans Rev.*, 1, 1:84.

The statue's prayer. *Sou'wester*, 2, 1:70-71.

Indolence. *Ibid.*, p. 72.

The diving ballet. *Yale Rev.*, 58, 2:266-68.

Reviews

Berryman's sonnets, by John Berryman. *Yale Rev.*, 57, 2:258-62.

The rescued year, by William Stafford. *Ibid.*, pp. 262-64.

Poems: 1957-1967, by James Dickey. *Ibid.*, pp. 264-67.

Poems: new and selected, by Reed Whittemore. *Ibid.*, pp. 267-69.

The solitaries, by Ted Walker. *Ibid.*, pp. 269-71.

New and selected poems, by Jean Garrigue. *Poetry*, 112, 2:121-23.

Of flesh and bone, by John Frederick Nims. *Ibid.*, 5:337.

Hawkweed, by Paul Goodman. *Ibid.*, 5:338.

The panther and the lash, by Langston Hughes. *Ibid.*, 5:339.

For a bitter season, by George Garrett. *Ibid.*, 5:340.

Amulet, by Carl Rakosi. *Ibid.*, 5:341-42.

The lice, by W. S. Merwin. *Yale Rev.*, 57, 4:598-601.

The hard hours, by Anthony Hecht. *Ibid.*, pp. 601-4.

The damages, by Richard Howard. *Ibid.*, pp. 604-6.

Figure in the door, by Arthur Gregor. *Ibid.*, pp. 606-8.

Kinds of affection, by Josephine Miles. *Ibid.*, pp. 608-11.

Body rags, by Galway Kinnell. *Ibid.*, 58, 1: 137-39.

Touch, by Thom Gunn. *Ibid.*, pp. 139-40.

The blue swallows, by Howard Nemerov. *Ibid.*, pp. 140-41.

After experience, by W. D. Snodgrass. *Ibid.*, pp. 141-43.

Coming close, by Helen Chasin. *Ibid.*, p. 143.

Leopards in the temple, by David Galler. *Ibid.*, pp. 143-45.

So long at the fair, by Miller Williams. *Ibid.*, pp. 145-46.

Excursions, by Katherine Hoskins. *Ibid.*, pp. 146-47.

Reasons for moving, by Mark Strand. *Ibid.*, pp. 147-49.

MARDER, HERBERT, Associate Professor

Books

Feminism and art: a study of Virginia Woolf. Univ. Chicago Press, 190 pp.

Articles

Virginia Woolf's "system that did not shut out." *PLL*, 4, 1:106-11.

PURVES, ALAN C., Associate Professor

Books

With *Victoria Rippere*

The elements of writing about a literary work. NCTE, Champaign, Ill., 90 pp.

Articles

Designing the board's new literature achievement test. *Coll. Board Rev.*, 67, Spring, pp. 16-20.

You can't teach Hamlet, he's dead. *English J.*, 57, Sept., pp. 832-36.

SANDERS, CHARLES, Associate Professor

Books Edited

With *Robin R. Rice*

At length: twenty long essays for composition. Scott, Foresman and Co., Glenview, Ill., 468 pp.

Articles

"First follow nature": an annotation. *ES*, 49, 4:289-302.

SCHEICK, WILLIAM J., Dissertation Fellow

Articles

Symbolism in *The education of Henry Adams*. *Ar. Qt.*, 24, 4:350-60.

The thing that is and the speculative if: the pattern of several motifs in three novels by H. G. Wells. *ELT*, 11, 2:67-68.

SIMON, JOHN K., Associate Professor

Articles

Valery Larbaud's *Fermina*. *Modern Lang. Notes*, 83, 4:543-64.

Reviews

Anti-memoirs, by André Malraux. *Book Week of Chicago Sun-Times*, October 20, pp. 1, 13.

The woodshed, the connecting door, and the blaze of noon, by Rayner Heppenstall. *Saturday Rev.*, August 10, pp. 35-36.

The French, by François Nourissier. *Book Week of Chicago Sun-Times*, June 16, p. 11.

STILLINGER, JACK, Professor

Books

Twentieth century interpretations of Keat's Odes. Prentice-Hall, Englewood Cliffs, N.J., 122 pp.

Articles

The meaning of "poor cheated soul" in Keats's *The eve of Saint Mark*. *ELN*, 5: 193-96.

Keats and romance. *SEL*, 8:593-605.

The text of Keats's "Ode on Indolence." *SB*, 22:255-58.

Poems

On being reminded of Keats on every other page of Professor Nina Baym's Poe article. *Prairie Schooner*, 42:60-61.

Committee. *Ibid.*, p. 60.

Reviews

Wordsworth: a philosophical approach, by Melvin Rader. *JEGP*, 67:165-67.

Keats and the mirror of art, by Ian Jack. *K-SJ*, 17:121-23.

The letters of William and Dorothy Wordsworth, ed. by Ernest de Selincourt and Chester L. Shaver. *JEGP*, 67:316.

STUBBS, JOHN C., Assistant Professor

Articles

A note on the source of Hawthorne's heraldic device in *The Scarlet Letter*. *NQ*, 15, 5: 175-76.

The search for perfection in *Rabbit, Run*. *Critique*, 10, 2:94-101.

Hawthorne's *The Scarlet Letter*: the theory of the romance and the use of the New England situation. *PMLA*, 83, 5:1439-47.

SZIROTNY, JUNE S., Assistant Professor

Articles

Pride and prejudice. *NQ*, 212, 11:424.

Pride and prejudice. *NQ*, 213, 1:31.

A classical reference in *Hard Times* and in *Middlemarch*. *NQ*, 213, 11:421-22.

TIBBETTS, ARNOLD M., Assistant Professor

Articles

The grammatical revolution that failed. *EL*, 45, 1:44-50.

To encourage reason on the campus: a proposal for a new college course in thinking and writing. *AAUP BULL.*, 54, 4:466-72.

TRAHERN, JOSEPH B., JR., Assistant Professor

Articles

Old English poetry, exclusive of *Beowulf*. In *The year's work in Old English studies*. *OE Newsletter*, 2, 1:10-13.

WASSON, RICHARD H., Associate Professor

Articles

The rhetoric of theatre: the contemporaneity of T. S. Eliot. *Drama Survey*, 6, 2:231-43. Comedy and history in *The rainbow*. *MFS*, 13, 4:465-77.

T. S. Eliot's antihumanism and antipragmatism. *TSLL*, 10, 3:445-55.

Reviews

The christian tradition in modern British verse drama. The poetics of sacramental time by William Spanos. *JEGP*, 67, 2: 324-27.

WILKIE, BRIAN, Associate Professor

Articles

Literature and the new learning. *Soundings*, 51, 3:225-36.

Reviews

Byron and the ruins of paradise, by Robert F. Gleckner. *JEGP*, 67, 3:526-29.

WOOLLEY, MARY LYNN JOHNSON,

Assistant Professor

Articles

Wordsworth's symbolic valed as it functions in *The Prelude*. *SIR*, 8, 3:176-89.

DOCTORAL DISSERTATIONS

Butturff, Douglas R. (J. J. Campbell, Adviser), The monsters and the scholar: an edition and critical study of the *liber monstrorum*.

Cohen, Mary B. (A. L. Altenbernd, E. J. Brandabur, Advisers), Ford Madox Ford: two passions, writing and romance.

Conlee, John W. (J. J. Campbell, Adviser), Artistry in the riddles of *The Exeter Book*.

Dalbey, Marcia A. (J. J. Campbell, Adviser), Structure and style in the blickling homilies for the *temporale*.

Dees, Jerome S. (A. E. Barker, Adviser), The narrator's voice in *The Faerie Queene*, *Christis Victorie*, and *Triumph*, and *The Locusts, or Apollyonists*.

Dolan, James C. (R. H. Green, Adviser), *The Tractatus Super Psalmum Vicesimum* of Richard Rolle of Hampole.

Dust, Philip C. (A. G. Holaday, Adviser), *The Carmen Gratulans Adventu Serenissimi Principis Frederici Comitis Palatini ad Academiam Cantabrigiensem*: an edition with introduction, translation, and commentary.

Ehret, Thomas K. (G. B. Evans, Adviser), Four sermons of Henry Smith: a critical edition.

Ewbank, David R. (D. Smalley, Adviser), The role of woman in Victorian society: a controversy explored in six Utopias, 1871-1895.

Geoghegan, Patrick M. (J. J. Campbell, Adviser), *Judgment Day II*, an edition.

Hutson, Richard E. (S. Paul, Adviser), The world dimensional: a study in Hart Crane's poetry.

Kennedy, Patricia (J. T. Flanagan, Adviser), The pioneer woman in middle western fiction.

La Rosa, Frank E. (A. G. Holaday, Adviser), A critical edition of John Heywood's *A Play of Love*.

Lightner, Claude M. (R. A. Gettmann, Adviser), Calvinism and characterization in the novels of Tobias Smollett.

McGrath, Lynette F. (A. S. Barker, Adviser), Studies in the norms and techniques of sixteenth-century English satire from Skelton to Donne.

Moore, Nancy N. (A. G. Holaday, Adviser), Ben Jonson's concept of decorum: a study of his theory and three comedies.

Rosenthal, Bernard (E. H. Davidson, Adviser), Nature's slighting hand: the idea of nature in American writing, 1820-1860.

Rucker, Mary E. (J. T. Flanagan, Adviser), The familiar essay in American literature.

Smith, David Q. (J. Stillinger, Adviser), Imagination and the philosophic mind: secular consolation in the poetry of William Wordsworth.

Swanson, Roger M. (R. A. Gettmann, Adviser), Guilt in selected Victorian novels.

Trower, Katherine B. (R. H. Green, Adviser), The plowman as preacher: the allegorical and structural significance of piers the plowman in *Piers Plowman*.

Valencia, Willa F. (J. T. Flanagan, Adviser), The Picaresque tradition in the contemporary English and American novel.

Via, John A. (A. E. Barker, Adviser), Studies in the imagery of Milton's poetry and prose to 1642.

Wight, Mary M. (A. E. Barker, Adviser), Milton's conception of regeneration.

ENTOMOLOGY

BALDUF, WALTER V., Professor Emeritus

Articles

On the life of *Vespula vulgaris* (L.) and *V. maculifrons* (Buysson), (Hymenoptera: Vespidae). *Proc. ent. Soc. Wash.*, 70: 332-38.

Bionomic notes on the hexapodous parasites of *Acrobasis rubrifasciella* (Lepidoptera, Phycitidae). *Ann. ent. Soc. Am.*, 61: 463-76.

FRAENKEL, GOTTFRIED S., Professor

Books

Decorative music title pages. 201 examples from 1500 to 1800. Dover Publications, N.Y., 230 pp.

Articles

The heat resistance of intertidal snails at Bimini, Bahamas; Ocean Springs, Mississippi; and Woods Hole, Massachusetts. *Physiol. Zool.*, 41:1-13.

With Catherine Hsiao

Manifestations of a pupal diapause in two species of flies, *Sarcophaga argyrostoma* and *S. bullata*. *J. Insect Phys.*, 14:689-705.

Morphological and endocrinological aspects of a pupal diapause in a fleshfly, *Sarcophaga argyrostoma*. *Ibid.*, pp. 707-18.

With T. H. Hsiao

The influence of nutrient chemicals on the feeding behavior of the Colorado potato beetle, *Leptinotarsa decemlineata* (Coleoptera: Chrysomelidae). *Ann. ent. Soc. Am.*, 61:44-54.

Isolation of phagostimulative substances from the host plant of the Colorado potato beetle. *Ibid.*, pp. 476-84.

The role of secondary plant substances in the food specificity of the Colorado potato beetle. *Ibid.*, 41:485-93.

Selection and specificity of the Colorado potato beetle for solanaceous and nonsolanaceous plants. *Ibid.*, pp. 493-503.

FRIEDMAN, STANLEY, Professor

Articles

Trehalose regulation of glucose-6-phosphate

hydrolysis in blowfly extracts. *Science*, 159:110.

GHEHT, ARTHUR W., Associate Professor
See Zoology.

HORSFALL, WILLIAM R., Professor

Articles

With A. A. Aly

Bionomics of *Psorophora varipes*, a model laboratory mosquito. *J. econ. Ent.*, 61: 1657-60.

LARSEN, JOSEPH R., Professor

Articles

With A. Broadbent

The neurosecretory cells of the brain of *Aedes aegypti* in relation to larval molt, metamorphosis and ovarian development. *Trans. Amer. Micr. Soc.*, 87:395-410.

MacLEOD, ELLIS G., Assistant Professor

Articles

A review of the taxonomy and morphology of the Berthidae, with the description of a new subfamily from Chile (Neuroptera). *Psyche*, 74:237-65.

Studies on the systematics of the Berthidae, part I: a redescription of the genus *Sphaeroberotha* Navas, with a critique of the taxonomic characters used in the Berthinae (Neuroptera). *Ibid.*, pp. 342-52.

METCALF, ROBERT L., Professor

Books Edited

Advances in pest control research. John Wiley-Interscience, N.Y., 245 pp.

Articles

The role of oxidative reactions in the mode of action of insecticides. In *Enzymatic oxidation of toxicants*, ed. by Hodgson. Proc. Conf. North Carolina State Univ., Raleigh, pp. 151-72.

Economic poisons. In *Encyc. chemical technology* (2nd ed.), ed. by Standen. John Wiley-Interscience, N.Y., 15:908-23.

With N. Bakry, T. R. Fukuto

Organothiocyanates as insecticides and carbamate synergists. *J. econ. Ent.*, 61:1303-09.

With T. R. Fukuto

The comparative toxicity of DDT and analogues to susceptible and resistant houseflies and mosquitoes. *Bull. World Hlth Org.*, 38:633-47.

With T. R. Fukuto, others

Metabolism of 2,2-dimethyl-2,3-dihydrobenzofuran-7-N-methylcarbamate (Furadan) in plants, insects, and mammals. *J. Agr. Food Chem.*, 16:300-11.

With W. B. Gruhn, T. R. Fukuto

Electrophysiological action of carbamate insecticides in the central nervous system of the American cockroach. *Ann. ent. Soc. Am.*, 61:618-24.

With T. Miller

Site of action of pharmacologically active compounds on the heart of *Periplaneta americana* L. *J. Insect Phys.*, 14:383-94.

A simple device for insect mechanogram. *Ann. ent. Soc. Am.*, 61:1618-20.

With R. M. Sacher, T. R. Fukuto

Propynyl naphthyl ethers as selective carbamate synergists. *J. Agr. Food Chem.*, 16: 779-86.

With R. Williamson

Salicylanilides: a new group of active un-

couplers of oxidative phosphorylation. *Science*, 158:1694-95.

ROSS, HERBERT H., Professor

Articles

The evolution and dispersal of the grassland leafhopper genus *Exitianus*, with keys to the Old World species (Cicadellidae: Hemiptera). *Bull. Brit. Mus. (Nat. Hist.) Ent.*, 22:1-30.

Relationships between vegetation, insects, and wildlife. *Proc. Intl. Union For. Org. Cong.*, 7:218-26.

Process of ecological change. *Bioscience*, 19:39.

With W. E. Ricker

North American species of Taeniopteryx (Plecoptera, Insecta). *J. Fisheries Res. Bd. Can.*, 25:1423-39.

With W. E. Ricker, Rene Malouin, P. Harper

Distribution of Quebec stoneflies (Plecoptera). *Naturaliste can.*, 95:1085-1123.

WALDBAUER, GILBERT P., Associate Professor

Articles

The consumption and utilization of food by insects. In *Advances in insect physiology* (vol. 5), ed. by Beament, Treherne, and Wigglesworth. Academic Press, London, pp. 229-88.

DOCTORAL DISSERTATIONS

Abou-Aly, Aly (W. R. Horsfall, Adviser), Bionomics of *Psorophora varipes* (Coquillett) (Diptera: Culicidae).

Flattum, Roger F. (J. G. Sternburg, Adviser), Action of nicotine on neural transmission in the American cockroach [*Periplaneta americana* (L.)].

Fogal, Willard H. (S. Friedman, Adviser), Morphogenesis of cuticle: its pigmentation and deposition, the role of bursicon, and changes in fat body cells in the adult flesh flies, *Sarcophaga bullata* and *S. argyrostoma* (Diptera: Sarcophagidae).

Patterson, William J. (W. R. Horsfall, Adviser), Histopathology of the developing reproductive system of *Aedes stimulans* (Walker) (Diptera: Culicidae) under thermal stress.

Peterson, Lance G. (J. R. Larsen, Adviser), Cellular immune responses of insects to foreign tissue implants.

Pinto, John D. (R. B. Selander, Adviser), Bionomics and taxonomy of *Meloe* (Coleoptera, Meloidae), with a classification of the New World species.

Ronquillo, Maria C. R. (W. R. Horsfall, Adviser), Organogenesis of the female reproductive system of an aedine mosquito.

EXCEPTIONAL CHILDREN, RESEARCH ON

BANNATYNE, ALEXANDER D., Associate Professor

Articles

The transfer from modality perceptual to modality conceptual. In *Perception and reading*, 12th Ann. Convention, International Reading Assn., Seattle. I.R.A. Newark, Del., pp. 7-16.

Diagnostic and remedial techniques for use with dyslexic children. *Acad. Therapy Q.*, 4, 1:213-24.

Diagnosing learning disabilities and writing

remedial prescriptions. *J. Learning Disabilities*, 4, 1:28-35.

CHALFANT, JAMES C., Associate Professor

Articles

Learning disabilities: major issues and problems. In *Learning disabilities and operant conditioning; major issues and problems*, recorded by D. Haarer, Northern Mich. Univ., Marquette, pp. 1-17.

With R. A. Henderson

Administration. In *Exceptional children research review*, ed. by O. Johnson and H. Blank, Coun. Except. Child., Wash., D.C., pp. 304-31.

With C. Kass, G. Foster

Training specialists in learning disabilities. In *Learning disorders, Vol. III*, ed. by J. Helmuth, Special Child Pub., Seattle, Wash., pp. 537-50.

With G. Kirk, K. Jensen

Systematic language instruction: An approach for teaching receptive language to young trainable children. *Teaching Except. Child.*, 1:1-13.

CLARK, GARY M., Assistant Professor

Articles

A summary of the literature on behavior disorders in brain damaged children. In *Brain damage in school age children*, ed. by H. C. Haywood, Coun. Except. Child., Wash., D.C., pp. 182-210.

DURANT, ADRIAN J., JR., Assistant Professor

Articles

With H. M. Selnick, M. Farrell

A survey of the status of special education in selected school districts. In *Proceedings and annual report*. Coun. Administrators of Spec. Educ., Coun. Except. Child., Wash., D.C., pp. 35-54.

FARBER, BERNARD, Professor

See Sociology.

HENDERSON, ROBERT A., Professor

Articles

With M. Williamson, R. Koch

Phenylketonuria in school age retarded children. *Amer. J. Mental Deficiency*, 72, 5: 740-47.

With J. C. Chalfant

Administration. In *Exceptional children research review*, ed. by O. Johnson and H. Blank, Coun. Except. Child., Wash., D.C., pp. 304-31.

Reviews

Educating the child who is different, by Maria Egg. *J. Educ. Res.*, 62, 3:141.

HURDER, WILLIAM P., Professor

Articles

Maximum service-minimum manpower. In *Mental health and urban social policy*, ed. by L. Duhl and R. Leopold. Jossey-Bass Pubs., San Francisco, Calif., pp. 91-110.

JORDAN, LAURA, Associate Professor

Articles

Effective seatwork for the retarded. *Education and Train. Mentally Retarded*, 3, 2:90-93.

Reviews

Teaching techniques for retarded and pre-

reading students, by Mary L. Durbin.
Except. Child., 34, 9:711-12.

KARNES, MERLE B., Professor

Books

Helping young children develop language skills: a book of activities. Coun. Except. Child., Wash., D.C., 136 pp.

Articles

With W. Studley, W. Wright, A. Hodgins

An approach for working with mothers of disadvantaged preschool children. *Merrill-Palmer Qt.*, 14:174-84.

With J. Wollersheim, R. Stoneburner, A. Hodgins, J. Teska

An evaluation of two preschool programs for disadvantaged children: a traditional and a highly structured experimental preschool. *Except. Child.*, 34, 9:667-76.

With A. Hodgins, R. Stoneburner, W. Studley, J. Teska

Effects of a highly structured program of language development on intellectual functioning and psycholinguistic development of culturally disadvantaged three-year-olds. *J. Spec. Educ.*, 2:405-12.

KIRK, SAMUEL A., Professor Emeritus

Books

With J. J. McCarthy, W. D. Kirk

The Illinois test of psycholinguistic abilities (rev. ed.). Univ. Ill. Press, Urbana.

With M. B. Karnes, W. D. Kirk

You and your retarded child (2nd ed.). Pacific Books, Palo Alto, Calif., 186 pp.

Articles

The Illinois Test of Psycholinguistic Abilities: Its origin and implications. In *Learning disorders, Vol. III*, ed. by J. Helmuth. Special Child Pub., Seattle, Wash., pp. 395-428.

The national advisory committee on handicapped children. *Except. Child.*, 34, 7: 481-84.

Statement before the select subcommittee on education of the committee on education and labor, House of Representatives (90th Congress) on H.R. 17829, a bill to authorize preschool and early education programs for handicapped children. U.S. Govt. Printing Ofc., Wash., D.C., pp. 31-37.

PARASKEVOPOULOS, JOHN

Articles

Symmetry, recall and preference in relation to chronological age. *J. Except. Child Psychol.*, 6:258-64.

QUIGLEY, STEPHEN P., Professor

Books

Deaf students in colleges and universities. Volta Bureau, Wash., D.C., 196 pp.

With P. J. Schmitt, J. Quadagno

Supervisors and supervision of teachers of the deaf. Inst. Res. Except. Child., Urbana, Ill., 188 pp.

Books Edited

The vocational rehabilitation of deaf people. Voc. Rehab. Admin., U.S. Govt. Printing Ofc., Wash., D.C., 133 pp.

Articles

The vocational rehabilitation of deaf persons. In *Ibid.*, pp. 1-4.

Introduction. In *Ibid.*, pp. vii-viii.

With P. J. Schmitt, J. Quadagno

A survey of supervising teachers in schools for the deaf. In *Report of the proceedings of the 43rd convention of American instructors of the deaf, 1967*. U.S. Govt. Printing Ofc., Wash., D.C., pp. 393-97.

Reviews

Thinking without language, by H. G. Furth. *Educ. Forum*, 32, 3:373-74.

SCHMITT, PHILIP J., Instructor

Books

With S. P. Quigley, J. Quadagno

Supervisors and supervision of teachers of the deaf. Inst. Res. Except. Child., Urbana, Ill., 188 pp.

Articles

With S. P. Quigley, J. Quadagno

A survey of supervising teachers in schools for the deaf. In *Report of the proceedings of the 43rd convention of American instructors of the deaf, 1967*. U.S. Govt. Printing Ofc., Wash., D.C., pp. 393-97.

SCOTT, KEITH G., Assistant Professor

See Children's Research Center.

STEINMAN, WARREN M., Assistant Professor

Professor

See Children's Research Center.

FINANCE

ARLT, CARL T., Professor

Articles

The economic outlook. *Ill. Banker*, Jan., pp. 6, 7, 16. The federal reserve system. In *Collier's encyclopedia*, ed. by Halsey and Shores, Crowell Collier Educ. Corp., Crowell Collier and MacMillan, N.Y., pp. 635-41.

Monetary policy guidelines and federal reserve structure. In *Compendium on monetary policy guidelines and federal reserve structure*, ed. by Committee on Banking and Currency (House), 90th Congress, 2nd Session, U.S. Govt. Printing Ofc., Wash., D.C., Dec., pp. 87-91.

Reviews

The behavior of interest rates: a progress report, by J. W. Conard. *Qt. Rev. Econ. and Bus.*, 7, 4:87-91.

BRYAN, WILLIAM R., Associate Professor

Articles

With D. J. Aigner

The determinants of member bank borrowing: a critique. *J. Fin.*, 23, 5:832-37.

FORBES, STEPHEN W., Assistant Professor

Reviews

Automobile liability claims, by Jerry S. Rosenbloom. *J. Risk and Insur.*, 35, 4: 644-48.

GENTRY, JAMES A., Assistant Professor

Articles

Do institutional investors buy and sell common stocks with similar characteristics? *Qt. Rev. Econ. and Bus.*, 8, 4:21-30.

With J. R. Pike

Dual funds revisited. *Fin. Analysts J.*, 24, 2:149-58.

LINKE, CHARLES M., Assistant Professor

Books

With C. F. Haywood

The regulation of deposit interest rates. Bank Research Comm. Assn. Reserve City Bankers, Chicago, 80 pp.

MAYER, ROBERT W., Professor

Articles

A forecast of public utility capital requirements and the means of their financing. *Proc. 7th Ann. Ia. State Conf. on Pub. Util. Val. and Rate Mkg.*, pp. J11-19.

Wood River, 1803-04. *J. Ill. State Hist. Soc.*, 61, 2:140-49.

Institutionalization of stock investment. *Ill. Bus. Rev.*, 25, 11:6-8.

MEHR, ROBERT I., Professor

Articles

Automobile accident compensation systems—objectives and perspectives—remarks. In *Crisis in car insurance*, ed. by Keeton, O'Connell, and McCord, Univ. Ill. Press, Urbana, pp. 36-39.

Business—1967. In *World topics year book*, ed. by Sentiman and Trier, Tanglely Oaks Educ. Center, Lake Bluff, Ill., pp. 106-10.

Tax-sheltered annuities: purchase decisions. *J. Risk and Insur.*, 35, 2:207-26.

A look at change for automobile claims. *Ibid.*, 3:425-36.

Some thoughts on product development in life insurance. *Ibid.*, 4:553-67.

Personal goals and occupational pursuits. *The Spectator*, 176, 11:84-88.

With B. A. Hedges

New perspectives on risk management: comment. *J. Risk and Insur.*, 35, 4:615-23.

VAN ARSDELL, PAUL M., Professor

Books

Corporation finance—policy, planning, administration. Ronald Press Co., N.Y., 1680 pp.

DOCTORAL DISSERTATIONS

Elsaid, Hussein H. (P. M. Van Arsdell, Adviser), The function of preferred stock in the corporate financial plan, 1945-1965.

El-Salem, Ahmed W. (P. M. Van Arsdell, Adviser), Financial analysis of the expansion of the petroleum refining industry, 1946-1960.

Haugen, Robert A. (R. W. Mayer, Adviser), Effects of leverage and dividend policy on the value of equity capital.

FOOD SCIENCE

ARGOUDELIS, CHRISTOS J., Assistant Professor

Articles

With R. S. Pardini

Biosynthesis of vitamin B₆ by a yeast mutant. *J. Bacteriol.*, 96, 3:672-77.

With P. D. Sattangi

Synthesis of a pyridoxal analog, 4-5 diformyl-3-hydroxy-2-methylpyridine. *J. Org. Chem.*, 33, 4:1337-41.

With L. T. Sennello

Synthesis of fat-soluble analogs of pyridoxal 5'-phosphate. *Ibid.*, 33, 10:3983-85.

With E. G. Perkins

Determination of double bond position in

mono-unsaturated fatty acids using combination gas chromatography mass spectrometry. *Lipids*, 3, 4:379-81.

With E. G. Perkins, B. L. Walker

The application of gas liquid chromatography to the analysis of lipids. In *Developments in applied spectroscopy* (Vol. 6). Plenum Pub. Corp., N.Y., pp. 389-400.

KUMMEROW, FRED A., Professor

Articles

With G. E. S. Mary, K. A. Narayan

Rat serum lipoproteins after partial hepatectomy. *Proc. Soc. Exp. Biol. Med.*, 129: 6-12.

With S. Zalewski

Rapeseed oil in a two-component base stock. *J. Amer. Oil Chem. Soc.*, 45, 2:87-92.

With D. S. Sgoutas

The influences of the major fatty acids in milk fat on serum cholesterol levels. In *Dairy lipids and lipid metabolism*, ed. by Brink and Kritchevsky. Avi Pub. Co., Westport, Conn., pp. 116-34.

NARAYAN, K. ANANTH, Assistant Professor

Articles

With G. E. S. Mary, F. A. Kummerow

Rat serum lipoproteins after partial hepatectomy. *Proc. Soc. Exp. Biol. Med.*, 129: 6-12.

With A. Kruski

Some quantitative aspects of disc electrophoresis. *Biochim. Biophys. Acta*, 168: 570-73.

NELSON, ALVIN I., Professor

Articles

With R. Toledo, M. P. Steinberg

Quantitative determination of bound water by NMR. *J. Food Sci.*, 33, 3:315-17.

With K. W. Lebermann, M. P. Steinberg

Post-harvest changes of broccoli stored in modified atmospheres. 1. Respiration of shoots and color of flower heads. *Food Tech.*, 22, 4:490-93.

Post-harvest changes of broccoli stored in modified atmospheres. 2. Acidity and its influence on texture and chlorophyll retention of the stalks. *Ibid.*, 4:487-90.

With K. H. Udani, M. P. Steinberg

Rate of moisture adsorption by wheat flour and its relation to physical chemical and baking characteristics. *Ibid.*, 12:1561-64.

NISHIDA, TOSHIRO, Associate Professor

Articles

Effect of phospholipase treatment of low density lipoproteins on the dextran sulfate-lipoprotein interaction. *J. Lipid Res.*, 9, 5:627-35.

ORDAL, Z. JOHN, Professor

Articles

Sources of food spoilage microorganisms. In *The safety of foods*, ed. by Ayers, others. Avi Pub. Co., Westport, Conn., pp. 183-93.

With G. W. Gould

Activation of spores of *Bacillus cereus* by γ -radiation. *J. Gen. Microbiol.*, 50, 1:77-84.

With A. Oterholm, L. D. Witter

Glycerol ester hydrolase activity of lactic acid bacteria. *Appl. Microbiol.*, 16, 3: 524-27.

With Carol W. Clark, L. D. Witter
Thermal injury and recovery of *Streptococcus faecalis*. *Ibid.*, 11:1764-69.

With M. F. Campbell
Inhibition of sporulation of *Clostridium therosaccharolyticum*. *Ibid.*, 12:1949.

PERKINS, E. G., Associate Professor

Articles

With C. J. Argoudelis
Determination of double bond position in mono-unsaturated fatty acids using combination gas chromatography mass spectrometry. *Lipids*, 3, 4:379-81.

With B. L. Walker, C. J. Argoudelis
The application of gas liquid chromatography to the analysis of lipids. In *Developments in applied spectroscopy* (Vol. 6). Plenum Pub. Corp., N.Y., pp. 389-400.

SGOUTAS, DEMETRIUS, Assistant Professor

Articles

Hydrolysis of synthetic cholesterol esters containing trans fatty acids. *Biochim. Biophys. Acta*, 164:317.

With F. A. Kummerow

The influences of the major fatty acids in milk fat on serum cholesterol levels. In *Dairy lipids and lipid metabolism*, ed. by Brink and Kritchevsky. Avi Pub. Co., Westport, Conn., pp. 116-34.

STEINBERG, MARVIN P., Professor

Articles

With R. Toledo, A. I. Nelson
Quantitative determination of bound water by NMR. *J. Food Sci.*, 33, 3:315-17.

With K. W. Lebermann, A. I. Nelson

Post-harvest changes of broccoli stored in modified atmospheres. 1. Respiration of shoots and color of flower heads. *Food Tech.*, 22, 4:490-93.

Post-harvest changes of broccoli stored in modified atmospheres. 2. Acidity and its influence on texture and chlorophyll retention of the stalks. *Ibid.*, 4:487-90.

With K. H. Udani, A. I. Nelson

Rate of moisture adsorption by wheat flour and its relation to physical, chemical and baking characteristics. *Ibid.*, 12:1561-64.

TOBIAS, JOSEPH, Professor

Articles

Dairy technology in a food science department. *J. Dairy Sci.*, 51, 2:255-59.

With N. R. Sundararajan, R. McL. Whitney

Quantitative procedure for gas chromatographic analysis of head-space vapor over sterile concentrated milk. *Ibid.*, 51, 8:1169-76.

TUCKEY, STEWART L., Professor

Articles

Trends and development in the dairy industry in the United States. *Netherlands Milk and Dairy J.*, 22, 1/2:64-76.

With J. Stadhouders

Increase in the sensitivity of the organoleptic, detection of lipolysis in cow's milk by culturing or direct acidification. *Ibid.*, 21, 4:158-65.

With J. Stadhouders, C. W. Raadsvelde

Comparison of certain methods for the determination of fat hydrolysis in milk. *Ibid.*, 21, 4:150-57.

With N. Melachouris

Properties of a milk clotting microbial enzyme. *J. Dairy Sci.*, 51, 5:650-55.

WHITNEY, ROBERT McL., Professor

Articles

With N. R. Sundararajan, J. Tobias

Quantitative procedure for gas chromatographic analysis of head-space vapor over sterile concentrated milk. *J. Dairy Sci.*, 51, 8:1169-76.

WILSON, HAROLD K., Associate Professor

Articles

Microscopic particles in sterilized milk products. *Ill. Res.*, 10, 3:19.

WITTER, L. D., Professor

Articles

With A. Oterholm, Z. J. Ordal

Glycerol ester hydrolase activity of lactic acid bacteria. *Appl. Microbiol.*, 16, 3:524-27.

With Carol W. Clark, Z. J. Ordal

Thermal injury and recovery of *Streptococcus faecalis*. *Ibid.*, 16, 11:1764-69.

DOCTORAL DISSERTATIONS

Bluhm, Leslie (Z. J. Ordal, Adviser), The effect of sublethal heat on the metabolic activity of *Staphylococcus aureus* MF-31.

Campbell, Michael F. (Z. J. Ordal, Adviser), Glucose and l-arabinose fermentation during growth and sporulation of *Clostridium therosaccharolyticum*.

Cutaia, Anthony J. (Z. J. Ordal, Adviser), Activation of *Bacillus cereus* endospores.

Singh, Surjan (S. L. Tuckey, Adviser), The chemical changes in the fat and protein of limburger cheese during ripening.

Wong, Carl Y. (T. Nishida, Adviser), Characterization and some properties of erythrocyte membrane solubilized by sodium dodecyl sulfate.

Yang, Jih H. (M. P. Steinberg, Adviser), Increasing the rates of heat and mass transfer in freeze drying of beef.

FORESTRY

BOGGESS, WILLIAM R., Professor and
Head of Department

Articles

Engineering the environment: an ecological perspective. In *Man and the quality of his environment*, ed. by J. Ernest, Flack Western Resources Conf., Univ. Colo. Press, Boulder, pp. 23-26. 1967.

With A. R. Gilmore, W. A. Geyer

Micro-site and height growth of yellow poplar. *For. Sci.*, 14:420-26.

With J. W. Geis

The prairie peninsula: its origin and significance in vegetational history of central Illinois. In *The quaternary of Illinois*, ed. by R. E. Bergstrom. *Univ. Ill. Coll. Agr. Spec. Pub.* 14, pp. 89-95.

FOX, HOWARD W., Assistant Professor

Articles

Anti-desiccants and chemical additives used in keeping Christmas trees fresh in the home. *Amer. Christmas Tree J.*, 12:3-10.

GILMORE, ALVAN R., Associate Professor

Articles

Geographic variations in specific gravity of white pine and red pine in Illinois. *For. Prod. J.*, 18:49-51.

With W. R. Boggess, W. A. Geyer

Micro-site and height growth of yellow poplar. *For. Sci.*, 14:420-26.

Bulletins and Technical Reports

Site index curves for plantation-grown white pine in Illinois. *Ill. Agr. Exp. Sta. For. Note*, 123, 2 pp.

GUIHER, JOHN K., Assistant Professor

Articles

Relation of specific gravity to rings-per-inch in cottonwood construction lumber. *For. Prod. J.*, 18:22.

FRENCH

ALDRIDGE, A. OWEN, Professor

Articles

Apostles of reason: Camilo Henríquez and the French enlightenment. *Studies on Voltaire and the Eighteenth Century*, 55:65-87.

The cloudy Spanish enlightenment. *Mod. Lang. J.*, 52, 2:113-16.

The background of Kleist's *Das Erdbeben in Chili*. *Arcadia*, *Zeitschrift für Vergleichende Literaturwissenschaft*, Band 3 Heft 2:173-80.

Thomas Paine and the classics. *Eighteenth Century Studies*, 1:370-80.

Las Ideas en la América del Sur Sobre la Ilustración Española. *Revista Iberoamericana*, 34:283-97.

International and new periodicals in comparative literature. In *Yearbook of comparative and general literature*, 17:122-23.

With M. Zimmerman

Foreign influences and relations: English and American. In *A critical bibliography of French literature the eighteenth century*, Syracuse Univ. Press, Syracuse, N.Y., 4:212-37.

Reviews

Explication de Texte, ed. by Jean Sareil. *Mod. Lang. J.*, 52:239-40.

Tradition and innovation in contemporary literature. A round table conference of international P.E.N., ed. by László Kéry. *Books Abroad*, 42:174.

Pages d'écriture, Jean Tardieu. *Ibid.*, p. 240.

BASSAN, FERNANDE, Associate Professor

Articles

Le Moïse de Chateaubriand. *R.Sc.Hum.*, Fasc. 132, Oct.-déc., pp. 559-90.

Reviews

Paysage de Chateaubriand, by J.-P. Richard. *Ibid.*, pp. 685-86.

BOWEN, BARBARA C., Associate Professor

Articles

Rabelais and the comedy of the spoken word. *MLR*, 63:575-80.

Reviews

Rabelais créateur, by Alfred Glauser. *Ibid.*, pp. 475-76.

La commedia dell'arte vue à travers le Zibaldone de Pérouse, by Suzanne Thérault. *Ibid.*, pp. 274-75.

Poems of Joachim Du Bellay, ed. H. W.

Lawton, and Les Regrets, ed. by Jolliffe and M. A. Screech. *Ibid.*, pp. 476-77.

With V. E. Bowen

From Montaigne to Chateaubriand, by A. Pugh. *Ibid.*, pp. 712-13.

BOWEN, VINCENT E., Associate Professor

Reviews

Quatre contes, éd. crit. par Jacques Proust. *MLR*, 63:710-11.

L'Encyclopédie, par Jacques Proust. *Ibid.*, pp. 711-12.

With B. C. Bowen

From Montaigne to Chateaubriand, by A. Pugh. *Ibid.*, pp. 712-13.

GRAY, STANLEY E., Associate Professor

Articles

Phenomenology, structuralism and Marcel Proust. *L'Esprit Créateur*, 7, 1:58-74.

JAHIEL, EDWIN, Associate Professor

Articles

Antonis Samarakis: fiction as scenario. *Books Abroad*, 42, 4:531-34.

Progress and Repetitiousness. *Film Soc. Rev.*, 26:29-31.

Reviews

Chez les Français, by M. Reed. *Canadian Mod. Lang. Rev.*, 24, 2:135-37.

Littérature de notre temps, I, II, III, by Majault, Nival, Geronimi. *Educ. Forum*, 32, 2:235-36.

Fahrenheit 451. *Film Soc. Rev.*, 24:12-14.

Madchen in uniform. *Ibid.*, pp. 10-12.

The Heavier, by I & E Cameron. *Ibid.*, 25:38-39.

L'Île des Pas Perdus, by Jean Muno. *Books Abroad*, 42, 2:234-35.

Le Mort, by G. Bataille. *Ibid.*, 42, 2:232.

Histoire, by C. Simon. *Ibid.*, pp. 235-36.

Les Belles Images, by S. de Beauvoir. *Ibid.*, July.

Beyond the French, by Levieux. *Mod. Lang. J.*, 52, 6:382-83.

Z, by Vassilis Vassilikos. *Books Abroad*, 42, 3:482.

With face to the wall, poems by Milto Sahtouris. *Ibid.*, 4:592-93.

JENKINS, FREDERIC M., Associate

Professor

Reviews

Langage et poésie chez Paul Valéry: "Amers" de Saint-John Perse, une poésie du mouvement, by Albert Henry. *Romance Philol.*, 22:72-78.

La Formation du vocabulaire de l'aviation, by Louis Guilbert. *Ibid.*, p. 202-9.

JOST, FRANÇOIS, Professor

Books

Essais de littérature comparée, vol. II, *Europaeana* (1st series), Editions universitaires, Fribourg and Univ. Ill. Press, Urbana, 430 pp.

Articles

Literature et suicide. *De Werther à Madame Bovary*. *RLC*, 42, 2:161.

Komparatistik oder Absolutistik? *Arcadia*, 3, 3:229.

KNUDSON, CHARLES A., Professor

Articles

A "distinctive and charming jewel": Le

Voyage de Charlemagne à Jérusalem et à Constantinople, publié par Paul Aebischer. *Romanic Rev.*, 59:99-105.

KOLB, PHILIP, Professor

Books

With L. B. Price

Marcel Proust: Textes retrouvés, recueillis et présentés avec une bibliographie des publications de Proust (1892-1967). Univ. Ill. Press, Urbana, 304 pp.

Articles

Texte inédit de Marcel Proust: "La petite phrase de la sonate." *Bulletin de la Société des Amis de Marcel Proust et des Amis de Combray*, 18:675-80.

Reviews

The imagery of Proust, by Victor E. Graham. *MLQ*, 29:116-20.

PRICE, LARKIN B., Assistant Professor

Books

With P. Kolb

Marcel Proust: Textes retrouvés, recueillis et présentés avec une bibliographie des publications de Proust (1892-1967). Univ. Ill. Press, Urbana, 304 pp.

VELAN, YVES C., Professor

Articles

La Chair du livre. *Critique*, N° 257, Octobre, pp. 863-69.

DOCTORAL DISSERTATIONS

Betts, Madeline E. (R. R. Hubert, Adviser), L'Univers de Laforgue à travers les mots.

Jones, Louisa E. (R. R. Hubert, Adviser), Form and fusion in the short stories of Jules Supervielle.

Klein, David J. (P. Kolb, Adviser), *Les Marges*: 1903-1914.

Persaud, Patrick D. (J. D. Hubert, Adviser), French tragedy and Greek legends (1680-1715).

Porter, Agnes R. (P. Kolb, Adviser), The technique of parody in the works of Marcel Proust.

Reiss, Timothy J. (J. D. Hubert, Adviser), Liturgy and illusion: the spectator and the French theatre from Hardy to *Horace*.

GENERAL ENGINEERING

DOBROVOLNY, JERRY S., Professor and Head of Department

Books

With R. P. Hoelscher, C. H. Springer

Graphics for engineers. John Wiley and Sons, N.Y., 917 pp.

Articles

The need for articulation of two- and four-year technical training programs. *Sci. Educ. News*, Dec., pp. 7-8.

Bulletins and Technical Reports

Civil engineering technology consultants' workshop. *Amer. Assn. Jr. Colls.*, Wash., D.C., 31 pp.

With E. L. Broghamer, D. C. O'Bryant

Machine design technology curriculum guide, series 4. Stipes Pub. Co., Champaign, Ill., 74 pp.

O'BRYANT, DAVID C., Instructor

Bulletins and Technical Reports

With A. Periberg

Video-tape recording for improved teaching

in higher education. Univ. Ill., Urbana, 33 pp.

With J. S. Dobrovolny, E. L. Broghamer

Machine design technology curriculum guide, series 4. Stipes Pub. Co., Champaign, Ill., 74 pp.

PLACEK, RONALD J., Associate Professor

Books

Technical mathematics with calculus. Prentice Hall, Englewood Cliffs, N.J., 593 pp.

GENERAL STUDIES

APPLEBEE, ROGER K., Lecturer

See English.

GAIDES, GLEN E., Assistant Professor

Articles

With S. Rosen, C. M. Weller

Science and methods for teachers-to-be. *Elem. School J.*, 69, 3:137-42.

Reviews

Improving objective tests in science, by Clarence Nelson. *J. Research Sci. Teaching*, 5, 4:407-8.

ROSEN, SIDNEY, Professor

Articles

With C. M. Weller, G. E. Gaides

Science and methods for teachers-to-be. *Elem. School J.*, 69, 3:137-42.

GEOGRAPHY

ALEXANDER, CHARLES S., Professor

Articles

With Jean C. Prior

The origin and function of the Cache Valley, Southern Illinois. *The Quaternary of Illinois*, Univ. Ill. Coll. Agr. Spec. Pub. 14, pp. 19-26.

The marine terraces of the northeast coast of Tanganyika. *Zeits. für Geomorphologie*, Suppl. 7, pp. 133-54.

Reviews

Scientific problems of the humid tropical zone deltas and their implications. UNESCO, Paris, 1966. *Geographical Rev.*, Jan., pp. 155-56.

Latin America, by Harry Robinson. *Americas*, May, p. 31.

BIER, JAMES A., Cartographer

Atlases

Campground atlas of the United States and Canada (1968-69 ed.). Alpine Geog. Press, Champaign, Ill. 260 pp.

Maps

Landforms of Ohio, 1:1,000,000 (rev. ed.). Ohio State Geol. Surv., Columbus, Ohio.

FELLMANN, JEROME D., Professor

Articles

Developmental trends in United States urban geography: 1950-1966. *Sinposio de Geografia Urbana*. PAIGH Pub. 274 (Rio de Janeiro, 1968), pp. 81-88.

Reviews

The spatial dynamics of U.S. urban-industrial growth, 1800-1914, by Allan R. Pred. *Prof. Geog.*, 20, 3:223-24.

JAKLE, JOHN A., Assistant Professor

Articles

Salt-derived place names in the Ohio Valley. *Names*, 16, 1:1-5.

The American bison and the human occupation of the Ohio Valley. *Proc. Amer. Phil. Soc.*, 112, 4:299-305.

LAVALLE, PLACIDO D., Assistant Professor

Articles

Karst depression morphology in South Central Kentucky. *Geografiska Annaler*, 50, 2:94-108.

Streams: their dynamics and morphology by Marie Morisawa. *Prof. Geog.*, 20, 5:365-66.

Reviews

An approach to the study of karst water, by A. F. Pitty. *Caves and Karst*, 10, 3:32.

NUNNALLY, NELSON R., Assistant Professor

Articles

A strategy for developing classifications of land use as interpreted from remote sensor imagery. *Amer. Soc. Photogrammetry, Proc. 34th Ann. Meeting*, March 1968, pp. 179-86.

ROEPKE, HOWARD G., Professor

Reviews

Geography and economics, by Michael Chisholm. *Prof. Geog.*, 20, 1:61.

Geography of manufacturing, by Gunnar Alexandersson. *Geog. Rev.*, 58, 4:676-77.

THOMPSON, JOHN, Professor and Head of Department

Articles

Central America—physical geography and natural resources. *Encyclopaedia Britannica*, 1968 ed., 5:173-81.

Mexico—physical geography. *Ibid.*, 15:329-30.

Middle America. *Ibid.*, pp. 404-5.

Santiago. *Ibid.*, 19:1044-45.

DOCTORAL DISSERTATIONS

Harman, Jay R. (R. W. Armstrong, Adviser), Environment and forest gradients on the southeast shore of Lake Michigan: a study in plant geography.

Larson, Ronald A. (H. G. Roepke, Adviser), Geographic patterns of energy consumption in Tasmania.

Maresh, Thomas J. (H. G. Roepke, Adviser), Analysis of regional variation in the production of coal among districts in the United States.

GEOLOGY

ANDERSON, THOMAS F., Assistant Professor

Articles

Surface area measurement in calcite grains by isotopic exchange with C^{14} -labeled carbon dioxide. *Geochim et Cosmochim. Acta*, 32, 11:1177-86.

BLAKE, DANIEL B., Assistant Professor

Articles

Pedicellariae of two Silurian echinoids from western England. *Paleontology*, 11, 4:576-79.

Two new Eocene corals from Oregon. *J. Paleontology*, 42, 1:201-4.

CAROZZI, ALBERT V., Professor

Books

Annotated translation of de Maillet's *Telliamed* (1748). Univ. Ill. Press, Urbana, 465 pp.

Articles

De Maillet's TELLIAMED (1748): an editorial venture of the eighteenth century. *Stechert-Hafner Book News*, 22, 7:97-100.

With J. E. Lacey

Critères de distinction entre oolithes autochtones et allochtones—Application au Calcaire de Sainte-Geneviève (Viséen) de l'Illinois, U.S.A. *Bull. Centre. Rech. S.N.P.A., Pau*, 1, 2:279-313.

With J. E. Roche

Petrography of selected Chesterian carbonates (Viscan-Namurian) from the type area in southwestern Illinois. *Trans. Ill. State Acad. Sci.*, 61, 2:182-200.

Reviews

Amanz Gressly, ein Solothurner Geologe (1814-1865), by K. Meyer. *Isis*, 58, 5:98.

An annotated bibliography of observations on Illinois water resources, by T. P. Schlunz, R. M. Sutton and G. W. White. *Ibid.*, 59, 2:222-23.

Carbonate rocks—physical aspects, by C. V. Chilingar, H. J. Bissell and R. W. Fairbridge. *Atlas Earth Sci. Revs.*, 3, 3:203-4.

Carbonate rocks—origin, occurrence and classification, by C. V. Chilingar, H. J. Bissell and R. W. Fairbridge. *Ibid.*, 4:238-39.

CARTER, JOHN L., Research Associate

Articles

New genera and species of early Mississippian brachiopods from the Burlington limestone. *J. Paleontology*, 42, 5:1140-52, plates 145-148, 1 text-figure.

CHAPMAN, CARLETON A., Professor

Articles

A comparison of the Maine coastal plutons and the central magmatic complexes of New Hampshire. In *Studies of Appalachian geology, northern and maritime*, ed. by E-an Zen, W. S. White, J. B. Hadley, and J. B. Thompson, Jr., Interscience Pubs., N.Y., pp. 385-96.

Intersecting belts of post-tectonic "alkaline" intrusions in New England. *Ill. State Acad. Sci.*, 61, pp. 46-52.

Reviews

Introduction to petrology, by Brian Bayly. *J. Geol.*, 76, p. 607.

COLLINSON, CHARLES W., Professor

Articles

With L. E. Becker, M. P. Carlson, F. H. Dorheim, G. W. James, others
Devonian of the north-central region, United States. *Intnl. Symp. Devonian System: Albert Soc. Petrol. Geols.*, 1:933-71.

DEERE, DON U., Professor

See Civil Engineering.

DOMENICO, PATRICK A., Associate Professor

Articles

With D. V. Anderson, C. M. Case
Optical ground water mining. *Water Resources Res.*, 4, 2:247-55.

DONATH, FRED A., Professor and Head of Department

Articles

Role of experimental rock deformation in dynamic structural geology. In *NSF advanced science seminar in rock mechanics for college teachers of structural geology*, ed. by Robert E. Riecker, Bedford, Mass., Air Force Cambridge Research Laboratories TSL Special Report, pp. 355-438.

FRYE, JOHN C., Professor

Books Edited

With C. B. Schultz

Loess and related eolian deposits of the world (vol. 12), Proc. 7th INQUA Congr., Univ. Nebr. Press, Lincoln, 369 pp.

Articles

Illinois State Geological Survey and the mining industry. *Ill. Mining Inst. Proc., 75th Anniv. Meeting, 1967*, pp. 14-27.

With H. B. Willman, H. D. Glass

Correlation of midwestern loesses with glacial succession. In *Loess and related eolian deposits of the world* (vol. 12), Proc. 7th INQUA Congr., ed. by Frye and Schultz, Univ. Nebr. Press, Lincoln, pp. 3-21.

With A. B. Leonard

Late-Pleistocene Lake Lomax in western Texas. In *Means of correlation of quaternary successions*, ed. by R. B. Morrison, H. E. Wright, Jr., Proc. 7th INQUA Congr., Univ. Utah Press, Salt Lake City, 8:519-34.

Bulletins and Technical Reports

With H. B. Willman, H. D. Glass

Research and service of the Illinois State Geological Survey. *Ann. Rpt., Dept. Regis. and Educ., State of Ill.: Ill. State Geol. Survey Reprint Series 1968-M*, 24 pp.

Clay mineral composition, a source indicator of midwest loess. In *Quaternary of Illinois*, Univ. Ill. Coll. Agr. Spec. Pub. 14, pp. 35-40.

Mineral zonation of Woodfordian loess of Illinois. *Ill. State Geol. Surv. Circ. 427*, 44 pp.

With A. B. Leonard

Development of Pleistocene stratigraphy in Illinois. In *Quaternary of Illinois*, Univ. Ill. Coll. Agr. Spec. Pub. 14, pp. 3-10.

With H. B. Willman, M. Rubin,

R. F. Black
Definition of Wisconsinian stage. *U.S. Geol. Survey Bull., 1274-E*, 22 pp.
Geological information for managing the environment. *Texas Qt., 11*, 2:55-68.

Reviews

Loess deposits of Mississippi, by E. L. Krynitzky, W. J. Turnbull. *Amer. J. Sci., 226*, 10:999-1001.

GRIM, RALPH E., Research Professor Emeritus

Books

Clay mineralogy (2nd ed.). McGraw-Hill Book Co., N.Y. 596 pp.

Articles

With E. Couch

Boron fixation by illites. *Clay and Clay Min., 16*:249-56.

With F. M. Wahl

The kaolin deposits of Georgia and South Carolina, U.S.A. *Proc. 18th Intl. Geol. Congr., Prague, Czechoslovakia, 14*:9-28.

HAGNER, ARTHUR F., Professor

Articles

The titaniferous magnetite deposit at Iron Mountain, Wyoming. In *Ore deposits of the United States, 1933-1967*, ed. by John D. Ridge, Amer. Inst. Min., Met., and Pet. Engrs., N.Y., pp. 665-80.

HAY, WILLIAM WINN, Professor

Articles

With H. M. Bolli, J. E. Boudreaux, C. Emiliani, R. J. Hurley, J. I. Jones

Biostratigraphy and paleotemperatures of a section drilled and cored on the Nicaragua Rise by the vessel Submarex (Expedition Submarex 6301). *Geol. Soc. Amer. Bull., 78*:459-70.

With P. A. Sandberg

Application of the scanning electron microscope in paleontology and geology. *Proc., 1968 symp. on the scanning electron microscope*, ed. by Johari, Ill. Inst. Tech. Res. Inst., pp. 29-38, 16 figs.

With S. W. Wise, Jr.

Scanning electron microscopy of molluscan shell ultrastructures. I. Techniques for polished and etched sections. *Trans. Amer. Microsc. Soc., 87*:411-18.

Scanning electron microscopy of molluscan shell ultrastructures. II. Observations of growth surfaces. *Ibid.*, pp. 419-30.

LANGENHEIM, RALPH L., JR., Professor

Articles

With J. E. Gordon, K. G. O'Brien

Devonian stratigraphy and biostratigraphy at Dutch John Mountain, Lincoln County, Nevada. *Trans. Ill. State Acad. Sci., 61*, 3:233-46.

With S. H. Frost

New name for the rugose coral, *Temnophylum waltheri* Frost and Langenheim. *J. Paleontology, 42*, 5:1313.

MANN, C. JOHN, Assistant Professor

Articles

Geology of archeological site 48SH312, Wyoming. *Plains Anthropologist, 13*, 39: 40-45.

The Illinois basin, Mississippi embayment, and Ouachita Orogenic belt. *Gulf Coast Assn. Geol. Soc. Trans., 18*:222-25.

With W. A. Thomas

The ancient Mississippi River. *Ibid.*, pp. 186-204.

Reviews

Physical geology laboratory manual, by W. K. Hamblin and James D. Howard. *J. Geol. Educ., 16*:34.

RICHARDS, ADRIAN F., Professor of Geology and Civil Engineering

Articles

Discussion to session I, shear strength of soft clay. *Proc. Geotech. Conf., Oslo, 1967*, 2: 131-33.

With H. W. Parker

Surface coring for shear strength measurements. In *Civil engineering in the oceans*, Amer. Soc. Civil Eng., N.Y., pp. 445-88.

Reviews

Estuaries, ed. by G. H. Lauff. *Geotimes, 13*:32.

SANDBERG, PHILIP A., Assistant Professor

Articles

A new specimen stub for stereophotography

with the scanning electron microscope. *Micropaleontology*, 14:489-98, 1 pl.

With W. W. Hay

Application of the scanning electron microscope in paleontology and geology. *Proc., 1968 symp. on the scanning electron microscope*, ed. by Johari, Ill. Inst. Tech. Res. Inst., pp. 29-38, 16 figs.

WAHL, F. MICHAEL, Associate Professor
Articles

With R. E. Grim

The koalin deposits of Georgia and South Carolina, U.S.A. *Proc. 18th Intl. Geol. Congr., Prague, Czechoslovakia, 14:9-28.*

WHITE, GEORGE W., Research Professor

Books Edited

A view of the soil and climate of the United States of America, by C. F. Volney. Trans. with occasional remarks by C. B. Brown. Pub. as part of *Contributions to the history of geology series*, vol. 2. Hafner Pub. Co., Inc., N.Y., 466 pp. (Facsimile of 1804 edition, with Introduction.)

The Prodomus of Nicolaus Steno's dissertation concerning a solid body enclosed by process of nature within a solid. An English version with an Introduction and explanatory notes by John Garrett Winter, with a Foreword by William H. Hobbs. Pub. as part of *Contributions to the history of geology series*, vol. 4. Hafner Pub. Co., Inc., N.Y., 114 pp. (Facsimile of 1916 edition with editorial foreword.)

Articles

Age and correlation of Pleistocene deposits at Garfield Heights (Cleveland), Ohio. *Geol. Soc. Amer. Bull.*, 79:749-56.

John Keill's view of the hydrologic cycle, 1698. *Water Resources Res.*, 4:1371-74.

Memorial to J. Ernest Carman (1882-1966). *Geol. Soc. Amer. Proc.*, 1966, pp. 205-10.

Early State Geological Survey publications. *Stechert-Hafner Book News*, 23:21-23.

Pleistocene deposits of the north-west Allegheny Plateau, U.S.A. *Geol. Soc. London Proc.*, 1648:67-70.

Reviews

Short reviews in *Ninety-second critical bibliography of the history of science and its cultural influence*. *Isis*, 58, 5:27-28, 43, 80, 96-97, 108-109, 119.

DOCTORAL DISSERTATIONS

Coon, Richard F. (D. U. Deere, Adviser), Correlation of engineering behavior with the classification of in-situ rock.

Horne, John C. (H. R. Wanless, Adviser), Detailed correlation and environmental study of some late Pennsylvanian units of the Illinois Basin.

Merritt, Andrew H. (D. U. Deere, Adviser), Engineering classification for in-situ rock.

Pinder, George F. (D. U. Deere, Adviser), A numerical technique for aquifer evaluation.

Plusquellec, Paul L. (W. W. Hay, Adviser), Some Ostracod Genera of the subfamily campylocytherinae.

GERMANIC LANGUAGES AND LITERATURES

ANTONSEN, ELMER, Associate Professor

Articles

On the origin of Old English diagraph spellings. *SIL*, 19:5-17.

Reviews

A history of the German language, by John T. Waterman. *SIL*, 19:89-90.

Jazyk drevnejsix runiceskix nadpisej, by E. A. Makaev. *Lg.*, 44:132-35.

Schrifttafeln zum althochdeutschen Lesebuch, by Hanns Fischer. *JEGP*, 67, 3:492-93.

Die Runenschriften im älteren Futhark, by Wolfgang Krause. *Lg.*, 44:627-32.

BURKHARD, MARIANNE, Assistant Professor

Reviews

C. F. Meyer et la Nouvelle, by Georges Brunet. *Literaturbeilage der Neuen Zürcher Zeitung*. Nr.663, 27.Oktober.

Hans Jakob Christoffel von Grimmelshausen, *Gesammelte Werke in Einzelausgaben*, ed. by R. Tarot, W. Bender, F. G. Sieveke. *Schweizer Monatshefte*, 48, 9:952-57.

COUCH, DAVID R., Graduate Teaching Assistant

Articles

A theatrical evaluation of Goethe's abridged stage adaptation of *Götz*. *GQ.*, 41, 2: 149-66.

FREY, JOHN R., Professor

Articles

German literature. In *Modern literature II*, ed. by Schlatter. Prentice Hall, Englewood Cliffs, N.J., pp. 123-83.

Die stumme Begegnung. Beobachtungen zur Funktion des Blicks im *Tod in Venedig*. *GQ.*, 41, 1:177-95.

Anglo-German literary bibliography for 1967. *JEGP*, 67, 3:485-90.

Reviews

Schiller, by H. Cysarz. *Germanistik*, 9:750.

HAILE, H. G., Professor

Articles

Faust 2069: *Feuerluft* was the common term for oxygen. *GQ.*, 41, 1:39-42.

Teaching and basic research in literature. *MLJ*, 32, 6:362-66.

Reviews

Goethe's Die Wahlverwandtschaften. A literary analysis, by H. G. Barnes. *JEGP*, 67, 2:363.

Emblematik und Drama im Zeitalter des Barock, by Albrecht Schönc. *MLN*, 83, 3:480-81.

Catherina Regina von Greiffenberg: Leben und Welt der barocken Dichterin. *Monatshefte*, 60, 3:309-10.

KNUST, HERBERT, Associate Professor

Articles

Moderne variationen des Jedermann-Spiels. In *Helen Adolf Festschrift*, ed. by S. Z. Buehne, J. L. Hodge, L. B. Pinto, Frederick Ungar Pub., N.Y., pp. 309-41.

Reviews

Grammatik der deutschen Sprache, by Heinz Griesbach and Dora Schulz. *GQ.*, 41, 1: 124-26.

Contemporary German, by George A. C. Scherer and Hans-Heinrich Wängler. *GQ.*, 41, 3:481-82.

LORBE, RUTH, Associate Professor

Books

Lyrische Standpunkte. Interpretationen moderner Gedichte. Bayerischer Schulbuch-Verlag, München, 192 pp.

Reviews

Struktur und Sprachmagie. Zur Methode der Lyrik-Interpretation, by Herbert Lehnert. *JEGP*, 67, 1:96-97.

McGLATHERY, JAMES M., Assistant Professor

Reviews

Kleists Aufsatz über das Marionettentheater. Studien und Interpretationen. Mit einem Nachwort herausgegeben von Helmut Sembdner. *JEGP*, 67, 2:368-69.

MITCHELL, P. M., Professor

Articles

Bibliographical problems in comparative literature. *Yrbk. Comp. and Genl. Lit.*, 17: 99-102.

Reviews

Die Autobiographien zur deutschen Literatur, Kunst und Musik 1900-1965, by Ingrid Bode. *JEGP*, 67, 1:104-5.

The Oxford Ibsen (Vol. VII). *JEGP*, 67, 1:181-82.

Deutsches Literature-Lexikon (3rd ed.), 1.-2.-Lieferung. *JEGP*, 67, 2:335-36.

Borge Houmann. Talt og skrevet om Martin Andersen Nexø II. *Scand. Stud.*, 40, 1:69.

Nils Erik Enkvist: British and American literary letters in Scandinavian public collections. A survey. *Orbis Litterarum*, 22, 4:331-32.

NOCK, FRANCIS J., Professor

Articles

Die *M-Gruppen der Parzival-Handschriften. *PBB* (Halle), 90, 1-2:145-73.

RAUCH, IRMENGARD, Associate Professor

Articles

Dimensions of sound change in relation to an early Hölderlin poem. *Lg.*, 34:46-54.

Reviews

German Grammar (Vols. I, II, III) by Peter Jorgensen. *Monatshefte*, 60:198-202.

Übersicht über die lateinische Literatur von der Mitte des VI. Jahrhunderts bis zur Mitte des XIV. Jahrhunderts, by Gustav Gröber (and) Forschung zur althochdeutschen Literatur 1945-1962, by Heinz Rupp. *Monatshefte*, 60:83-85.

Structuralisme en Oudgermanistiek, by F. van Coetsem. *Lg.*, 38:97-102.

SCHIER, RUDOLF D., Assistant Professor

Articles

Von der Metapher zur figuralen Sprache: Dargestellt an Georg Trakls "Gesang des Abgeschiedenen." *DU*, 20, 4:49-68.

Reviews

Modern German literature: the major figures in context, by Henry Hatfield. *JEGP*, 67, 1:135-36.

SCHLÜTTER, HANS J., Assistant Professor

Articles

Adam Puschmans Skansionsbegriff. *ZfdA*, 97, 1:73-80.

Urkundliches über Franz Xaver Klinger. *Goethe*, Jahrbuch der Goethe-Gesellschaft, 29:288.

Reviews

Die rhythmisch-metrische Gestaltung des Knittelverses bei Hans Folz, by Hubert Heinen. *JEGP*, 67, 1:114-16.

Germanische Altertumskunde. Einführung in

das Studium einer Kulturgeschichte der Vor- und Frühzeit, by Volkmar Kellermann. *JEGP*, 67, 2:338-43.

Die deutsche Novelle zwischen Klassik und Romantik, by Josef Kunz. *JEGP*, 67, 2: 338-43.

Stoff- und Motivgeschichte, by Elisabeth Frenzel. *JEGP*, 67, 2:338-43.

STEGEMEIER, HENRI, Professor

Reviews

Emblemata. Handbuch zur Sinnbildkunst . . . , A. Henkel and A. Schöne. *JEGP*, 67, 4:656-72.

WILLSON, HAROLD B., Visiting Professor

Articles

Ordo Amoris in Wolfram's *Parzival*. *JEGP*, 67, 2:183-203.

Kalogreant's curiosity in Hartmann's *Iwein*. *GLL*, 21, 4:287-96.

Reviews

Kudrun, by Werner Hoffman. *JEGP*, 67, 2:353-56.

An Introductory MHG Text, by Hughsacker. *GLL*, 21, 4:353-54.

DOCTORAL DISSERTATIONS

Dill, Heinz J. (J. R. Frey, Adviser), Das spiel und das spielerische bei Thomas Mann.

Jansen, Peter K. (J. R. Frey, Adviser), Die ironie und das verhältnis zur wirklichkeit im werk Georg Büchners.

GOVERNMENT AND PUBLIC AFFAIRS

FISHER, GLENN W., Professor

Books

With R. P. Fairbanks

Illinois municipal finance: a political and economic analysis. Univ. Ill. Press, Urbana, 242 pp.

Articles

The British economy and American economic power. *Delphian Qt.*, 51:9-12.

GOVE, SAMUEL K., Professor

Articles

To gain perspective. *Natl. Civic Rev.*, 57, 4:195-99.

Chicago. In *Encyclopedia Americana*, pp. 146-47.

Illinois. *Ibid.*, pp. 335-36.

Illinois state government. In *Illinois blue book 1967-68*, pp. 41-51.

With B. W. Solomon

The politics of higher education: a bibliographic essay. *J. Higher Educ.*, 39, 4: 181-95.

Bulletins and Technical Reports

Reapportionment and the cities: the impact of reapportionment on urban legislation in Illinois. Center for Research in Urban Govt., Loyola Univ., Chicago, No. 12, 35 pp.

With R. J. Carlson

An introduction to the Illinois general assembly. Univ. Ill. Inst. Govt. and Pub. Affairs, Urbana, 199 pp.

KITSOS, THOMAS R., Research Assistant

Articles

The 1966 county elections. *Ill. Govt.*, No. 30, 4 pp.

MERANTO, PHILIP J., Assistant Professor

Articles

Competing for P.A.T. personnel: state and local governments vs. private industry. In *Manpower for Illinois governments*, Univ. Ill. Inst. Govt. and Pub. Affairs, Urbana, pp. 31-37.

Bulletins and Technical Reports

Executive leadership and race relations: the problem confronting Illinois mayors. Univ. Ill. Inst. Govt. and Pub. Affairs, Urbana, 37 pp.

MONYPENNY, PHILLIP, Professor

See Political Science.

PISCIOFFE, JOSEPH P., Assistant Professor

Articles

Profiles and careers of Colorado state legislators. *West. Pol. Qt.*, 21, 4:698-722.

With T. J. Anton

Provincial administrators: profile and career patterns of Illinois state officials. In *Manpower for Illinois governments*, Univ. Ill. Inst. Govt. and Pub. Affairs, Urbana, pp. 49-58.

HEALTH AND SAFETY EDUCATION

CRESWELL, WILLIAM H., JR., Professor

Articles

Theoretical propositions of a curriculum design for health education. *Academy Papers*, The Amer. Academy Phys. Educ., 2:1-9.

With E. M. Stjepcevic

A conceptual approach to health education for nutrition education. *Amer. J. Public Health*, 58, 4:684-91.

With R. P. Irwin

The status of the master's degree in health education offered by institutions other than schools of public health. *J. Sch. Health*, 38, 4:213-19.

With D. J. Merki, W. J. Huffman, D. B. Stone, I. Newman

The effects of two educational methods and message themes on rural youth smoking behavior. *Ibid.*, 7:448-54.

FLORIO, AURELIO E., Professor

Articles

Graduate programs in safety education. *Natl. Safety Cong. Trans.*, 23:91-94.

Accident prevention: concepts and supporting data relating to problem areas. In *Health Concepts—Guides for Health Instruction*, Amer. Assn. Health, Phys. Educ. and Rec., Wash., D.C., pp. 7-8.

HOYMAN, HOWARD S., Professor

Articles

Should we teach about birth control in high school sex education? *J. Sch. Health*, 38, 9:545-56.

Sex and American college girls today. *Child and Family*, 7, 1:27-37.

Bulletins and Technical Reports

With others

Steps toward implementing family life and sex education programs in Illinois schools. Ofc. Supt. Public Instruction, Springfield, Ill., 22 pp.

Resource materials—family life and sex education. *Ibid.*, 51 pp.

Annual report of the research council of the American School Health Association. *J. Sch. Health*, 38, 2:104-6.

HUFFMAN, WARREN J., Professor

Articles

Evaluation of high school driver education programs in Illinois. *Ill. High School and Coll. Driver Educ. Assn. Qt. J.*, 2:11-13.

Preliminary report of the driver education program development and evaluation consultant group. *Ibid.*, 3:3-7.

With D. J. Merki, W. H. Crestwell, D. B. Stone, I. Newman

The effects of two educational methods and message themes on rural youth and smoking behavior. *J. Sch. Health*, 38, 7:448-54.

With R. W. Seehafer, M. D. Kinzie

Effects of a low level blood-alcohol concentration on psychophysiological and personality measures under controlled driving conditions. *Ill. High School and Coll. Driver Educ. Assn. Qt. J.*, 3:14-16.

With G. R. Hummel

A comparison of accelerator release and brake response times of ten hand and foot braking methods on a simulator under three experimental conditions. *Natl. Safety Cong. Trans.: School and Coll. Safety*, 23:114-16.

Bulletins and Technical Reports

With National Committee

School safety policies. Amer. Assn. Health, Phys. Educ. and Rec., Natl. Educ. Assn., Wash., D.C., 32 pp.

STONE, DONALD B., Associate Professor

Articles

With D. J. Merki, W. H. Creswell, W. Huffman, I. Newman

The effects of two educational methods and message themes on rural youth smoking behavior. *J. Sch. Health*, 38, 7:448-54.

HEALTH SERVICE

BROWN, BRUCE L., Associate Professor

Articles

Spontaneous pneumothorax and viral infection. *JACHA*, 16, 4:407-8.

FELLA, GALE A., Associate in Health Science

Articles

With L. M. Hursh

The effect of 22, 25-diazacholestanol dihydrochloride on the fertility of pigeons, part II. *JACHA*, 17, 1:87-89.

HURSH, LAURENCE M., Director of Health Service and Professor

Articles

Wart cryotherapy. *J. Cryosurgery*, 1, 4: 280-83.

With G. A. Fella

The effect of 22, 25-diazacholestanol dihydrochloride on the fertility of pigeons, part II. *JACHA*, 17, 1:87-89.

KINZIE, MARION D., Associate Professor

Articles

With R. Seehafer, W. Huffman

Effects of a low level blood-alcohol concentration on psychophysiological and personality measures under controlled driving conditions. *Ill. High School and Coll. Driver Educ. Assn. Qt. J.*, 3:14-16.

WALTERS, ORVILLE S., Professor of Health Science and Lecturer in Psychiatry, Medical Center at Chicago

Articles

Emotional conflicts of university students. *Christianity Today*, 12:490-94.

Theology and changing concepts of the unconscious. *Religion in Life*, 37:112-28.

Contraceptives and the single person. *Christianity Today*, 13:16-17.

Reviews

The dialogue between theology and psychology, ed. by Peter Homas. *Ibid.*, pp. 275-76.

HISTORY

APPLEBAUM, WILBUR, Assistant Professor

Reviews

Kepler's *Somnium*: the dream, or posthumous work on lunar astronomy (trans. with commentary by Edward Rosen). *Historian*, 30:249-50.

ARNSTEIN, WALTER L., Professor

Articles

Votes for women: myths and reality. *Hist. Today*, 18, 8:531-39.

Reviews

Makers of modern England: the force of individual genius in history, by Giovanni Costigan. *Vic. Studies*, 11, March, pp. 414-15.

BATES, J. LEONARD, Professor

Reviews

Wilderness and the American mind, by Roderick Nash. *Amer. Hist. Rev.*, 73: 1612-13.

The fight for conservation, by Gifford Pinchot, with new introduction by Gerald D. Nash. *Pac. Northwest Qt.*, 59:217.

Twelve against empire: the anti-imperialists, 1898-1900, by Robert L. Beisner. *Ann. Amer. Acad. Pol. and Soc. Sci.*, 380:174-75.

BERNARD, PAUL P., Professor

Books

Joseph II. Twayne Publishers, N.Y., 155 pp.

Articles

Zion through a spy-glass, darkly. *Colo. Coll. Stud.*, 10:1-39.

Reviews

The revolutionary emperor, by Saul K. Padover. *Choice*, Jan., p. 1307.

Don John of Austria, by Charles Petrie. *Ibid.*, June, p. 548.

Heresy in the later Middle Ages: the relation of heterodoxy to dissent, by Gordon Leff (2 vols.). *Amer. Hist. Rev.*, Oct., pp. 140-41.

BROWN, SIDNEY D., Visiting Professor

Books Edited

Studies on Asia 1967. Univ. Nebr. Press, Lincoln, 192 pp.

DAWN, C. ERNEST, Professor

Articles

The Egyptian remilitarization of Sinai, May, 1967. *J. Contemp. Hist.*, 3, 3:201-24.

Reviews

Politics and the military in Jordan, by P. J. Vatikiotis. *Amer. Hist. Rev.*, 74, 1:238-39.

EASTMAN, LLOYD E., Associate Professor

Articles

Political reformism in China before the Sino-Japanese War. *JAS*, 27, 4:695-710.

FARNHAM, WALLACE D., Professor

Reviews

The diary of James A. Garfield (vols. 1, 2), ed. by Harry James Brown and Frederick D. Williams. *J. Amer. Hist.*, 55, 3:623-24.

FISHER, RALPH T., JR., Professor

Reviews

Prologue to revolution: notes of A. N. Iakhontov on the secret meetings of the Council of Ministers, 1915, ed. by Michael Cherniavsky. *Russian Rev.*, 27:487-88.

HILL, BENNETT D., Associate Professor

Books

English cistercian monasteries and their patrons in the twelfth century. Univ. Ill. Press, Urbana, 188 pp.

HITCHINS, KEITH A., Associate Professor

Articles

The Russian Revolution and the Rumanian Socialist Movement, 1917-1918. *Slavic Rev.*, 27, 2:268-89.

The Romanians of Transylvania and the *Ausgleich*, 1865-1869. *Revue Roumaine d'Histoire*, 7, 2:197-231; trans. in Rumanian: Românii din Transilvania și Compromisul Dualist, 1865-1869, *Studii. Revistă de Istorie*, 21, 2:289-315.

Amintirea Clujului. *Tribuna*, 12, 26:5.

Politica americană și unirea Transilvaniei cu România in 1918, *Ibid.*, 48:8.

Reviews

Memorii, 1401-1477, by Georgios Sphrantzes. *Amer. Hist. Rev.*, 73, 5:1504-5.

Acta Musei Napocensis (vol. III). *Ibid.*, pp. 1571-73.

Iobăgia in Transilvania in secolul al XVI-lea (2 vols.), by D. Prodan. *Ibid.*, 74, 2:661-62.

Supplex Libellus Valachorum, by D. Prodan. *Ibid.*, pp. 662-64.

Studien zur Geschichte Osteuropas. 3 Teil: Gedenkband für Heinrich Felix Schmid. *Jahrbücher für Geschichte Osteuropas*, 16, 1:119-21.

Romania, by Dumitru Berciu. *E. European Qt.*, 2, 2:175-76.

Avram Iancu, by Silviu Dragomir. *Balkan Studies*, 8, 2:516-19.

Dacii, by Hadrian Daicovicu. *Can. Slavic Studies*, 2, 3:431-32.

Opere alese (2 vols.), by Panait Istrati. *Books Abroad*, Jan.

Balada populară română, by Gheorghe Vrăbie. *Ibid.*

JAHER, FREDERIC C., Associate Professor

Books Edited

America in the age of industrialism. Free Press, N. Y., 400 pp.

Articles

The Boston Brahmins in the age of industrial capitalism. In *America in the age of industrial capitalism*, ed. by Jaher. *Ibid.*, pp. 188-263.

The new nation: an introduction and appraisal. *Labor Hist.*, 9:376-79.

Reviews

The emergence of metropolitan America, by Blake McKelvey. *J. Amer. Hist.*, 55: 679-81.

JOHANNSEN, ROBERT W., Professor

Articles

In search of the real Lincoln, or Lincoln at the crossroads. *J. Ill. State Hist. Soc.*, 61: 229-47.

Reviews

Lincoln vs. Douglas: the great debates campaign, by Richard Allen Heckman. *J. South. Hist.*, 34:124-25.

"Black Jack": John A. Logan and southern Illinois in the Civil War era, by James P. Jones. *Ind. Mag. Hist.*, 64:80-81.

Joe Lane of Oregon: machine politics and the sectional crisis, 1849-1861, by James E. Hendrickson. *Pac. Northwest Qt.*, 59:110.

The American party systems: stages of political development, ed. by William Nisbet Chambers and Walter Dean Burnham. *J. Amer. Hist.*, 55:108-9.

The frontier re-examined, ed. by John Francis McDermott. *Ariz. and the West*, 10:191-92.

The papers of Ulysses S. Grant, vol. I, 1837-1861, ed. by John Y. Simon. *Pac. Northwest Qt.*, 59:168.

KRUEGER, THOMAS A., Associate Professor

Reviews

The South since Appomattox: a century of regional change, by Thomas D. Clark and Albert D. Kirwan. *J. Ill. State Hist. Soc.*, 61:385-87.

LOVE, JOSEPH L., Assistant Professor

Articles

Recorder and translator for Brazilian history section in *Portugal and Brazil in transition*, ed. by R. S. Sayers, Univ. Minn., Minneapolis, pp. 124-26; 143-44.

McCOLLEY, ROBERT M., Associate Professor

Articles

Jefferson's rivals: the shifting character of the Federalists. *Midcontent ASJ* 9, 1: 23-33.

Reviews

Charles Cotesworth Pinckney: founding father, by Marvin Zahniser. *JAH*, 45, 1:123-33.

The confessions of Nat Turner, by William Styron. *Civil War Hist.*, 14, 4:346-48.

McKAY, JOHN P., Assistant Professor

Reviews

Russian economic policy under Nicholas I, by Walter M. Pintner. *Bus. Hist. Rev.*, 42, 4:505-6.

QUELLER, DONALD E., Professor

Books

The office of the ambassador in the Middle Ages. Princeton Univ. Press, Princeton, N.J., 251 pp.

SCHROEDER, PAUL W., Professor

Articles

Bruck versus Buol: the dispute over Austrian eastern policy, 1853-1855. *J. Mod. Hist.*, 40:193-217.

SOLBERG, WINTON U., Professor

Books

The University of Illinois, 1867-1894: an intellectual and cultural history. Univ. Ill. Press, Urbana, 494 pp.

Articles

With R. A. Sedler

Academic freedom and tenure: Northern

State College (South Dakota). *AAUP Bull.*, 54:306-13.

SPENCE, CLARK C., Professor

Articles

James M. Ashley: spoilsman in Montana. *Montana: Mag. Western Hist.*, 18:24-35.

Reviews

Bostonians and bullion: the journal of Robert Livermore, 1892-1915, ed. by Gene M. Gressley. *Colo. Mag.*, 45:270-71.

STARR, CHESTER G., Professor

Books

The awakening of the Greek historical spirit. A. A. Knopf, N.Y., 157 pp.

Reviews

Samnium and the Samnites, by E. T. Salmon. *Class. World*, 61:304.

The Greeks, by A. Andrewes. *Amer. Hist. Rev.*, 73:1112-13.

Progress into the past, by W. A. McDonald. *Class. Phil.*, 63:301.

From Solon to Socrates, by V. Ehrenberg. *Class. World*, 62:103.

Res Publica Amissa, by C. Meier. *Amer. J. Phil.*, 89:480-83.

Ancient society and institutions. *J. Hell. Studies*, 88:249.

SUTTON, ROBERT M., Professor

Books

A history of Illinois in paintings. Univ. Ill. Press, Urbana, 48 pp.

Reviews

Memoir of John Mason Peck, D.D. Forty years of pioneer life, ed. from his journals and correspondence by Rufus Babcock. *Cath. Hist. Rev.*, 53, 4:630-31.

A bibliography of Illinois imprints, 1814-1858, by Cecil K. Byrd; descriptive bibliography of Civil War manuscripts, by William L. Burton. *Historian*, 30, 4: 679-80.

Essays in Illinois history, ed. by Donald F. Tingley. *J. Ill. State Hist. Soc.*, 61, 4: 479-80.

UROFF, BENJAMIN, Instructor

Reviews

Sino-Russian relations in the seventeenth century, by Vincent Chen. *J. Asian Studies*, 27, 3:618.

The English works of Giles Fletcher, the elder, ed. by Lloyd E. Berry; Of the Rus commonwealth, by Giles Fletcher, ed. by Albert J. Schmidt; Of the Russe commonwealth 1591; facsimile edition with variants, by Giles Fletcher, ed. by Richard Pipes and John V. A. Fine, Jr. *Slavic and E. European J.*, 12, 2:262-63.

WALLER, ROBERT A., Associate Professor

Reviews

History and the social sciences: new approaches to the teaching of social studies, by Mark M. Krug. *Historian*, 30:477-78.

The teaching of history, ed. by Joseph S. Ruceck. *Historian*, 30:478-79.

DOCTORAL DISSERTATIONS

Coombs, Frank A. (J. L. Bates, Adviser), Joseph Christopher O'Mahoney: the New Deal years.

DeBenedetti, Charles L. (J. L. Bates, Adviser), American internationalism in the 1920's: Shotwell and the outlaws.

- Madison, Kenneth G. (D. J. Geanakoplos, Adviser), *The Wydevilles, 1086-1491: the background and rise of a family in medieval English politics.*
- Paludan, Phillip S. (H. M. Hyman, Adviser), *Law and equal rights: the Civil War encounter—a study of legal minds in the Civil War era.*
- Pulliam, William E. (J. A. Nichols, Adviser), *Political propaganda in the secondary school history program of National Socialist Germany, 1933-1945.*
- Starkey, Armstrong M., III (R. P. Stearns, Adviser), *The diplomatic career of Alexander Campbell, Lord Polwarth, 1716-1725.*
- Tucker, Marlin T. (R. M. Sutton, Adviser), *Political leadership in the Illinois-Missouri German Community, 1836-1872.*
- Van Deventer, Carroll F. (R. W. Johannsen, Adviser), *The Free Soil Party in the north-west in the elections of 1848.*

HOME ECONOMICS

ANSPACH, KARLYNE A., Assistant Professor

Articles

- Fashion consciousness of Thai women. *J. Home Econ.*, 60:268-71.

DUNSING, MARILYN M., Professor

Articles

- Farm families' accounts show less buying power. *Ill. Res.*, 10, 4:18.

Bulletins and Technical Reports

With Jeanne L. Hafstrom

- Budgeting and consumption patterns of Illinois families, 1967. *Univ. Ill. Home Econ. Ext. Rpt.* 3782:81 pp.

With Jeanne L. Hafstrom, Dorothy A. Goss

- Money talk for teens. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 989:20 pp.

GOSS, DOROTHY A., Instructor

Bulletins and Technical Reports

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- Money talk for teens. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 989:20 pp.

HAFSTROM, JEANNE L., Instructor

Bulletins and Technical Reports

With Marilyn M. Dunsing

- Budgeting and consumption patterns of Illinois families, 1967. *Univ. Ill. Home Econ. Ext. Rpt.* 3782:81 pp.

With Marilyn M. Dunsing, Dorothy A. Goss

- Money talk for teens. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 989:20 pp.

KOSTELNICEK, BARBARA J., Instructor

Bulletins and Technical Reports

- Leather craft. *Univ. Ill. Coll. Agr. Coop. Ext. Serv.*, 4H-201c:12pp.

- Weaving. *Ibid.*, 4H-201h:12 pp.

LAMKIN, GLENNA H., Associate Professor

Articles

With Ercel S. Eppright, Hazel M. Fox,

- Beth A. Fryer, Virginia M. Vivian
Eating behavior of preschool children. *J. Nutr. Ed., Prototype Issue, Fall:* 16-18.

MEAD, MARJORIE E., Assistant Professor

Bulletins and Technical Reports

- Learning to knit. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. GC-112:32 pp.*

With Esther Siemen, Marjorie Sohn

- Learning to sew. *Ibid.*, GC-109:44 pp.

MILLS, QUEENIE B., Professor

Books

With W. D. Sheldon

- Picture stories and words. Preparatory book II. Sheldon basic reading series centennial edition (rev. ed.). Allyn and Bacon, Boston, 56 pp.

- Teachers' manual for *Picture stories and words.* *Ibid.*, 121 pp.

Pre-primers I, II, III. *Ibid.*

- Teachers' manual for pre-primers. *Ibid.*, 447 pp.

- Activity book for pre-primers. *Ibid.*, 96 pp.

- Our school. Primer. *Ibid.*, 160 pp.

- Teachers' manual for *Our school.* *Ibid.*, 317 pp.

- Activity book for *Our school.* *Ibid.*, 96 pp.

- Our town. First reader. *Ibid.*, 224 pp.

- Activity book for *Our town.* *Ibid.*, 96 pp.

SIEMEN, ESTHER E., Assistant Professor

Bulletins and Technical Reports

With Marjorie Mead, Marjorie Sohn

- Learning to sew. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. GC-109:44 pp.*

SMITH, ROBERT B., Associate Professor

See Music.

SOHN, MARJORIE A., Assistant Professor

Bulletins and Technical Reports

With Marjorie Mead, Esther Siemen

- Learning to sew. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. GC-109:44 pp.*

SPORAKOWSKI, MICHAEL J., Assistant Professor

Articles

- Marital preparedness, prediction and adjustment. *Family Coordinator*, 17, 3:155-61.

With D. H. Knox, Jr.

- Attitudes of college students towards love. *J. Marriage and the Family*, 30, 4:638-42.

VAN DEN DAELE, LELAND D., Assistant Professor

Books Edited

With Queenie B. Mills

- Readings in child development. Selected Academic Readings, N.Y., 372 pp.

Articles

- The human organism as information processor. *Ill. Res.*, 10, 3:14-15.

Bulletins and Technical Reports

- A developmental study of the ego-ideal. *Genet. Psychol. Monogr.*, 78:191-256.

VAN DUYN, FRANCES O., Professor

Reviews

- Meal management, by Faye Kinder. *J. Home Econ.*, 60:750.

DOCTORAL DISSERTATION

- Burghelmer, Yvonne F. (F. O. Van Duyne, Adviser), *Antioxidant activity of aqueous extracts of several edible plant materials.*

HORTICULTURE

BARRETT, H. C., Associate Professor

Articles

- Lady Patricia, a new dessert grape variety. *Ill. Res.*, 10, 2:19.

Bulletins and Technical Reports

With J. W. Courter, C. C. Zych, D. Powell
Growing small fruits in the home garden.
Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ. 935:52 pp.

BEEVERS, LEONARD, Associate Professor**Articles**

Protein degradation and proteolytic activity in the cotyledons of germinating pea seeds (*Pisum Sativum*). *Phytochemistry*, 7: 1837-44.

With W. E. Splittstoesser

Protein and nucleic acid metabolism in germinating peas. *J. Expt. Bot.*, 19:698-711.

BUTLER, J. D., Assistant Professor**Articles**

With H. J. Hopfen

A review of turf weed control for 1969. *Proc. 9th Ill. Turfgrass Conf.*, p. 7-11.

With J. B. Gartner

A soil test survey of golf greens. *Ibid.*, pp. 24-34.

Bulletins and Technical Reports

Keeping a lawn. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 982:15 pp.

CARBONNEAU, M. C., Associate Professor**Articles**

With J. B. Gartner, D. C. Saupe

Tree bark for growing potted plants. *Ill. Res.*, 11, 4:16.

Planning and keeping a small nursery. *The Bull Sheet — Official Bull. Midwest Assn. Golf Course Supts.*, 22, 2:10.

Should a small nursery be part of your landscape business? *The Landscaper*, October, p. 8.

With D. C. Saupe

Poinsettia bracts, sensitive to Termil. *Florists' Review* 143:55-56.

Bulletins and Technical Reports

Care of flowering potted plants. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 980, 2 pp.

CHU, MEL C., Assistant Horticulturist**Articles**

With R. K. Simons

Ovule development in the apple as related to morphological and anatomical variation in supporting tissues. *Proc. Amer. Soc. Hort. Sci.*, 92:37-49.

With A. G. Otterbacher, C. C. Zych

Pollen pore number and polyploidy in *Rubus*. *Trans. Ill. State Acad. Sci.*, 61, 4:421-24.

COURTER, J. W., Assistant Professor**Articles**

Greenhouse coverings. In *Proc. 2nd biennial northeast greenhouse vegetable conference*, 2:16-22.

With C. C. Zych, C. C. Doll

Strawberry variety survey and trial results. *Trans. Ill. State Hort. Soc.*, 101:125-30.

With H. J. Hopfen, J. S. Vandemark

Comparison of polyethylene-coated paper and polyethylene for mulching vegetables. *Proc. Natl. Agr. Plastics Conf.*, 8:126-29.

Bulletins and Technical Reports

Home greenhouses for year-round gardening pleasure. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 879:32 pp.

With J. S. Vandemark

Growing tomatoes at home. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 981:12 pp.

With C. C. Zych, H. C. Barrett, D. Powell

Growing small fruits in the home garden. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 935:52 pp.

With C. C. Zych, D. Powell

Commercial production of strawberries in Illinois. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 983, 63 pp.

CULBERT, J. R., Professor**Bulletins and Technical Reports**

With L. M. Berninger, W. J. Carpenter, R. S. Lindstrom, R. E. Widmer

Market grades and standards for carnations, chrysanthemums and roses. *Univ. Ill. Coll. Agr. Exp. Sta. Bull.* 727:24 pp. (North Central Regional Research Publication 173).

DAYTON, D. F., Professor**Articles**

With E. B. Williams

Independent genes in *Malus* for resistance to *Venturia inaequalis*. *Proc. Amer. Soc. Hort. Sci.*, 92:89-94.

Four additional sources of the V_r locus for *Malus* scab resistance. *Ibid.*, pp. 95-98.

DICKINSON, D. B., Associate Professor**Articles**

Rapid starch synthesis associated with increased respiration in germinating lily pollen. *Plant Physiol.*, 43:1-8.

With D. Cochran

Dimethyl sulfoxide: reversible inhibitor of pollen tube growth. *Ibid.*, pp. 411-16.

With J. P. McCollum, R. E. Drury,

S. A. Garrison

Nucleotide stimulation of the uncoupler-initiated inhibition of mitochondrial succinate oxidation. *Phytochemistry*, 7:2071-81.

FOSLER, G. M., Instructor**Articles**

A look at some of the lesser-known annuals. *Plants & Gardens*, Brooklyn Botanic Gardens, 24, 1:16-19.

With D. C. Saupe

Introducing 1969 bedding plant varieties for commercial growing and landscaping. *Ill. State Florists' Assn. Bull.*, 298:1-2, 4-10.

Bulletins and Technical Reports

Suggested varieties of garden annuals for use in home plantings, 1968. *Univ. Ill. Coll. Agr.*, Urbana, 6 pp.

GARTNER, J. B., Professor**Articles**

With W. M. Blaine, J. Q. Aylsworth

An economic survey of the ornamental nursery industry in the state of Illinois. *Ill. State Nurserymen's Assn. Inc. Newsletter*, No. 107 and 108, September and October.

With M. C. Carbonneau, D. C. Saupe

Tree bark for growing potted plants. *Ill. Res.*, 11, 4:16.

Planning and keeping a small nursery. *The Bull Sheet — Official Bull. Midwest Assn. Golf Course Supts.*, 22, 2:10.

Should a small nursery be part of your landscape business? *The Landscaper*, October, p. 8.

With J. D. Butler

A soil test survey of golf greens. *Proc. 9th Ill. Turfgrass Conf.*, pp. 24-34.

HODGES, T. K., Associate Professor

Articles

With O. E. Elzam

Characterization of energy-dependent Ca^{++} transport in maize mitochondria. *Plant Physiol.*, 43:1108-14.

HOPEN, H. J., Assistant Professor

Articles

A simplified method for measuring the carbon dioxide content of field air samples. *Hort. Sci.*, 2, 4:167-68.

With W. E. Splittstoesser

Metabolism of siduron by barley and crabgrass. *Weed Sci.*, 16:305-8.

Varietal differences in response to herbicides. *Ill. Res.*, 10, 4:19.

The effect of siduron on the growth and metabolism of barley. *Weed Sci. Soc. Amer.*, New Orleans, 1:26-27.

With S. Hawbaker

Water, soil encourage vegetable production in Illinois River Valley. *Veg. Crop Mgmt.*, April, pp. 33, 34.

With J. D. Butler

A review of turf weed control for 1969. *Proc. 9th Ill. Turfgrass Conf.*, pp. 7-11.

With J. W. Courter, J. S. Vandemark

Comparison of polyethylene-coated paper and polyethylene for mulching vegetables. *Proc., Natl. Agr. Plastics Conf.*, 8:126-29.

LOTT, R. V., Professor

Articles

With R. K. Simons

The morphology and anatomy of floral-tube and style abscission of associated floral organs in the "Starking Hardy Giant" cherry (*Prunus avium* L.). *Hort. Res.*, 8: 74-82.

The development and morphology and anatomy of floral-tube and style abscission in the "Wilson Delicious" apricot (*Prunus armeniaca* L.). *Ibid.*, pp. 67-73.

McCOLLUM, J. P., Professor

Books

With G. W. Ware

Producing vegetable crops (rev. ed.). The Interstate Printers and Pubs., Danville, Ill., 558 pp.

Articles

With H. Carter

Control of fruit set in tomatoes by use of Alar and gibberellin. *Ill. Res.*, 10, 2:19.

With M. T. H. Ragab

Colorimetric methods for the determination of simazine and related chloro-s-triazines. *J. Agr. Food Chem.*, 16, 2:284-89.

With R. E. Drury

A hexokinase-initiated inhibition of oxygen uptake in tomato fruit mitochondria uncoupled by Dinitrophenol. *Plant Physiol.*, 43, 10:1727-29.

With R. E. Drury, S. A. Garrison

Properties of succinate oxidation in tomato fruit mitochondria. *Ibid.*, 2:248-54.

With R. E. Drury, S. A. Garrison, D. B. Dickinson

Nucleotide stimulation of the uncoupler-initiated inhibition of mitochondrial succinate oxidation. *Phytochemistry*, 7:2071-81.

McDANIEL, J. C., Assistant Professor

Articles

Native pecans in the northernmost areas. *No. Nut Grower's Assn., Ann. Rpt.*, 58: 130-33.

Flowering quinces, useful ornamentals. *No. Amer. Pomono* 1, 4:19-23.

MEADOR, D. B., Assistant Professor

Articles

The weather and crop summary. *Trans. Ill. State Hort. Soc.*, 101:94-96.

Soil pH and its relation to fruit trees. *Ibid.*, pp. 96-99.

NELSON, W. R., Associate Professor

Articles

Community involvement for community action. *Proc. Conf. Community Planning*, Louisiana State Univ., School of Environmental Design, 14 pp.

Community improvement accomplishments of United States Landscape Extension Program. *Proc. of Community Landscape Improvement Seminar*, Univ. Guelph, Ontario, Canada, 13 pp.

Planning for a more attractive community. *Ill. Res.*, 11, 1:16-17.

OTTERBACHER, A. G., Assistant

Horticulturist

Articles

With C. C. Zych, M. C. Chu

Pollen pore number and polyploidy in *Rubus*. *Trans. Ill. State Acad. Sci.*, 61, 4:421-24.

RHODES, A. M., Associate Professor

Articles

With W. P. Bemis, T. W. Whitaker, S. G. Carner

A numerical taxonomic study of *Cucurbita*. *Brittonia*, 20:251-66.

SAUPE, D. C., Instructor

Articles

With M. C. Carbonneau

Poinsettia bracts, sensitive to Termil. *Florists' Review*, 143:55-56.

With M. C. Carbonneau, J. B. Gartner

Tree bark for growing potted plants. *Ill. Res.*, 11, 4:16.

Planning and keeping a small nursery. *The Bull Sheet—Official Bull. Midwest Assn. Golf Course Supts.*, 22, 2:10.

Should a small nursery be part of your landscape business? *The Landscaper*, October, p. 8.

With G. M. Fosler

Introducing 1969 bedding plant varieties for commercial growing and landscaping. *Ill. State Florists' Assn. Bull.*, 298:1-2, 4-10.

SIMONS, R. K., Professor

Articles

The historical development of the Illinois fruit industry. *Trans. Ill. State Hort. Soc.*, 101:112-24.

Phloem tissue development in the stock/scion union of East Malling IX apple rootstock. *Hort. Res.*, 8:97-103.

The morphological and anatomical characteristics of watercore in apples. *Proc. Amer. Soc. Hort. Sci.*, 93:762-74.

The morphological and anatomical comparison of some physiological disorders in apples. *Ibid.*, pp. 775-91.

With M. C. Chu

Ovule development in the apple as related to morphological and anatomical variation in supporting tissues. *Ibid.*, 92:37-49.

With R. V. Lott

The morphology and anatomy of floral-tube and style abscission of associated floral organs in the "Starking Hardy Giant" cherry (*Prunus avium* L.). *Hort. Res.*, 8: 74-82.

The development and morphology and anatomy of floral-tube and style abscission in the "Wilson Delicious" apricot (*Prunus armeniaca* L.). *Ibid.*, pp. 67-73.

SPENCER, PATRICIA W., Assistant Horticulturist

Articles

With J. S. Titus, W. E. Splittstoesser

Metabolism of α -ketoglutarate by roots of woody plants. *Plant Physiol.*, 43:619-21.

The synthesis of glutamate and aspartate in peach and apple roots. *Hort. Sci.*, 3, 2:57.

SPLITTSTOESSER, W. E., Assistant Professor

Articles

The absorption of potassium and several organic compounds by barley roots: effect of siduron. *Plant and Cell Physiol.*, 9:307-14.

The effect of siduron upon barley root metabolism. *Weed Sci.*, 16:344-74.

The metabolism of arginine in germinating pumpkin seedlings. *Hort. Sci.*, 3:123.

With H. J. Hopfen

Metabolism of siduron by barley and crabgrass. *Weed Sci.*, 16:305-8.

Varietal differences in response to herbicides. *Ill. Res.*, 10, 4:19.

The effect of siduron on the growth and metabolism of barley. *Weed Sci. Soc. Amer.*, New Orleans, 1:26-27.

With J. S. Titus, Patricia Spencer

Metabolism of α -ketoglutarate by roots of woody plants. *Plant Physiol.*, 43:619-21.

The synthesis of glutamate and aspartate in peach and apple roots. *Hort. Sci.*, 3, 2:57.

With L. Beever

Protein and nucleic acid metabolism in germinating peas. *J. Expt. Bot.*, 19:698-711.

TITUS, J. S., Professor

Articles

With W. E. Splittstoesser, Patricia Spencer

Metabolism of α -ketoglutarate by roots of woody plants. *Plant Physiol.*, 43:619-21.

The synthesis of glutamate and aspartate in peach and apple roots. *Hort. Sci.*, 3, 2:57.

With N. Ozerol

Translocation of nitrogenous compounds in one-year-old apple trees. *Proc. Amer. Soc. Hort. Sci.*, 93:7-16.

VANDEMARK, J. S., Professor

Articles

With J. W. Courter, H. J. Hopfen

Comparison of polyethylene-coated paper and polyethylene for mulching vegetables. *Proc. Natl. Agr. Plastics Conf.*, 8:126-29.

Bulletins and Technical Reports

With M. C. Shurtliff, W. H. Luckmann

Illinois vegetable garden guide (rev. ed.). *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 882, 50 pp.

With J. W. Courter

Growing tomatoes at home. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 981, 12 pp.

ZYCH, C. C., Associate Professor

Articles

With J. W. Courter, C. C. Doll

Strawberry variety survey and trial results. *Trans. Ill. State Hort. Soc.*, 101:125-30.

With A. G. Otterbacher, M. C. Chu

Pollen pore number and polyploidy in *Rubus*. *Trans. Ill. State Acad. Sci.*, 61, 4:421-24.

Bulletins and Technical Reports

With D. Powell, J. W. Courter

Commercial production of strawberries in Illinois. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 983:63 pp.

With J. W. Courter, H. C. Barrett, D. Powell

Growing small fruits in the home garden. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 935:52 pp.

INSTRUCTIONAL RESOURCES

ALEAMONI, LAWRENCE M., Professor

Articles

With Sushila Singhal

Weighted alternatives test-scoring program for the IBM 7094 system. *Behavioral Sci.*, 13:257.

With R. E. Spencer

Development of the University of Illinois foreign language placement and proficiency system and its results for fall. *Mod. Lang. J.*, 52:355-59.

McINTYRE, CHARLES J., Director

Articles

Another view. *Educ. Broad. Rev.*, 3, 1:10-11.

SPENCER, RICHARD E., Professor

Articles

With L. M. Aleamoni

Development of the University of Illinois foreign language placement and proficiency system and its results for fall. *Mod. Lang. J.*, 52:355-59.

With W. M. Stallings

The student profile section of ACT related to academic success. *J. Coll. Student Pers.*, 9:177-79.

STALLINGS, WILLIAM M., Professor

Articles

With E. K. Leslie

Can you justify what you are teaching? *Ill. Schools J.*, 48:111-14.

With H. R. Smock, E. K. Leslie

The pass-fail grading option. *School and Soc.*, 96:179-80.

With R. E. Spencer

The student profile section of ACT related to academic success. *J. Coll. Student Pers.*, 9:177-79.

With Sushila Singhal

Systematic sampling over an alphabetical listing of university freshmen. *Ibid.*, p. 337.

Reviews

Computational handbook of statistics, by Bruning and Kintz. *Educ. Psychol. Measmt.*, 28:1250-54.

Modern statistics for behavioral sciences, by Lordhal. *Ibid.*, pp. 961-63.

With Susan Feldman

Test and measurements in music, by Lehman. *Ibid.*, pp. 1262-64.

With Sushila Singhal

Elementary statistics: A workbook by Hope. *Ibid.*, pp. 959-61.

JOURNALISM

CAREY, JAMES W., Associate Professor

Articles

Generations and American society. In *America now*, ed. by John Kirk, Athenaeum Pubs., N.Y., pp. 293-305.

Reviews

The committee, by Walter Goodman. *Commonweal*, 88:275-76.

GILMORE, GENE S., Assistant Professor

Articles

The field invasion. *Columbia Journ. Rev.*, Fall, pp. 18-21.

GRAHAM, GENE S., Associate Professor

Articles

Publishing. In *Living history of the world*, Stravon Educ. Press, N.Y., pp. 369-72.
The responsibilities of the doubly damned. *Quill*, 56, 2:8-12.

Reviews

Best magazine articles: 1968, ed. by Gerald Walker. *Boston Globe*, 194, 62:12.
Sketches in the sand, by James B. Reston. *Commonweal*, 87, 23:721-24.

GUBACK, THOMAS H., Research Assistant Professor, Institute of Communications Research and Assistant Professor of Journalism

Articles

Die Amerikanischen Investitionen in der Europäischen Filmindustrie: Gründe, Mittel, Folgen. *Film und Recht*, 12, 8:223-30.
Political broadcasting and public policy. *J. Broadcasting*, 12, 3:191-211.

Reporting or distorting—broadcast network news treatment of a speech by John F. Kennedy. In *Problems and controversies in television and radio*, ed. by Skornia and Kitson, Pacific Books, Palo Alto, Calif., pp. 347-58.

Reviews

Mass entertainment, by Harold Mendelsohn. *J. Aesthetic Educ.*, 2, 3:147-49.
Theories of mass communication, by Melvin DeFleur. *Ibid.*, 2:135-36.

JENSEN, JAY W., Professor

Articles

History of American journalism. In *High school journalism today*, ed. by Gene Gilmore, Interstate Printers and Pubs., Danville, Ill., pp. 71-76.

Freiheit der Presse: Ein Begriff auf der Suche nach einer Philosophiē. *Publizistik*, 12, 2/3:100-110. 1967.

PETERSON, THEODORE B., Professor

Articles

Communications in a changing world. *Crescent*, 31, 8:8-14.

Magazines. In *Collier's Year Book 1968*, Crowell-Collier Educ. Corp., N.Y., 342-43.
What Ross wrought. *Columbia Journ. Rev.*, 7, 2:49-51.

Reviews

American story, by Bruce and Beatrice Gould. *Journ. Qt.*, 45, 4:752-53.

Art and glory: the story of Elbert Hubbard, by Freeman Champney. *Ibid.*, p. 751.

The Manchester affair, by John Corry. *Ibid.*, 2:364-65.

Ross, the New Yorker and me, by Jane Grant. *Ibid.*, pp. 353-54.

LABOR AND INDUSTRIAL RELATIONS

DERBER, MILTON, Professor

Articles

Labor unions. In *Collier's yearbook for 1968*. Crowell-Collier and Macmillan, N.Y., pp. 331-34.

Labor-management policy for public employees in Illinois: the experience of the governor's commission, 1966-1967. *Ind. and Lab. Rel. Rev.*, 21, 4:541-58.

Collective bargaining in Great Britain and the United States. *Qt. Rev. Econ. and Bus.*, Univ. Ill., Urbana, 8, 4:55-66.

Reviews

Technology and change, by Donald A. Schon. *Monthly Lab. Rev.*, 91, 1:75-76.

FOLK, HUGH W., Associate Professor

Articles

1967 amendments to the social security act. *Ill. Bus. Rev.*, 25, 7:6-8.

With D. E. Yett

Methods of estimating occupational attrition. *Western Econ. J.*, 6, 4:297-302.

Bulletins and Technical Reports

The shortage of engineers and scientists. Wash. Univ., St. Louis, 384 pp.

FRANKE, WALTER H., Professor

Articles

Employment. In *Collier's yearbook for 1968*. Crowell-Collier and Macmillan, N.Y., pp. 241-43.

Bulletins and Technical Reports**With I. Sobel**

The shortage of skilled and technical workers. ILIR, Univ. Ill., Urbana, June, 468 pp.

GRAEN, GEORGE B., Assistant Professor

See Psychology.

GREEN, ARCHIE, Associate Professor

Articles

Recorded labor songs: an overview. *Western Folklore*, 27:68-76.

The workers in the dawn: labor lore. In *Our living tradition*, ed. by Tristram Potter Coffin, N.Y., pp. 251-62.

MacEdward Leach, 1892-1967. *J. Amer. Folklore*, 81, April, pp. 108-10.

LP brochure notes: railroad songs and ballads. *Library of Congress, AFS 661*, May 1968.

HARTMAN, PAUL T., Associate Professor

See Economics.

HULIN, CHARLES L., Associate Professor

See Psychology.

KARSH, BERNARD, Professor

Articles

Human relations versus management. In *Institutions and the person*, ed. by Howard S. Becker, Blanche Geer, David Riesman,

and Robert S. Weiss. Aldine Pub. Co., Chicago, pp. 35-48.

With R. E. Cole

Industrialization and the convergence hypothesis: some aspects of contemporary Japan. *J. Social Issues*, 24, 4:45-64.

Reviews

White-collar trade unions: contemporary developments in industrialized societies, ed. by Adolf Sturmtal. *Amer. Soc. Rev.*, 33, 5:830-31.

Most notorious victory: man in an age of automation, by Ben B. Seligman. *Ind. and Lab. Rel. Rev.*, 21, 4:617-18.

LEVINE, SOLOMON B., Professor

Articles

Comparative analysis of industrial relations systems. *Kokusai Kōryō*, 80, May, pp. 1-18.

A foreigner's impression of Japanese labor relations. *Kōjō Kanri*, Aug., pp. 20-21.

Foreword to *Sōshiki wo Ikiru*, by Toshio Tsurumaki. Diamond Press, Tokyo.

Reviews

Capitalism and nationalism in prewar Japan: the ideology of the business elite, 1868-1941. *The Annals*, 379, Sept., pp. 210-11.

Labor relations in the Asian countries: proceedings of the second international conference on industrial relations, Tokyo. *Pacific Affairs*, 41, 2:264-65.

McPHERSON, WILLIAM H., Professor

Reviews

Labor-management consultation in the factory: the experience of Sweden, England, and the Federal Republic of Germany, by Dorothy deSchweinitz. *Ind. and Lab. Rel. Rev.*, 21, 3:448-49.

STOIKOV, VLADIMIR, Associate Professor

Articles

Productivity and the quality of the labour force: an international comparison. *Brit. J. Ind. Rel.*, 6, 2:156-65.

With R. L. Raimon

Determinants of differences in the quit rate among industries. *Amer. Econ. Rev.*, 28, 5:1283-98.

STURMTAL, ADOLF F., Professor

Articles

Income policies and international experience: further comments. *Ind. Rel.*, 23, 2:221-36.

Labor movements and collective bargaining in Europe. In *Intl. Encyc. Soc. Scis.*, Crowell-Collier and Macmillan, N.Y., pp. 523-33.

Industrial relations at the plant level. *J. Japan Inst. of Lab.*, 9, 4:30-42.

TRIANDIS, HARRY C., Professor

See Psychology.

LAW

BAUM, DAVID C., Professor

Bulletins and Technical Reports

The legal status of emergency curfew decrees. NAACP Legal Defense and Educational Fund, N.Y., 28 pp.

Developments in local government tort liability. *I.S.B.A. Local Government Newsletter*, 16:1, July, 4 pp.

BENFIELD, MARION W., JR., Professor

Articles

Money, mortgages and migraine — the usury headache. *Case-Western Res. L. R.*, 19: 819-99.

CARLSTON, KENNETH S., Professor

Books

Social theory and African tribal organization: the development of socio-legal theory. Univ. Ill. Press, Urbana, Chicago, and London. 462 pp.

COHN, RUBIN G., Professor

Articles

Public employee retirement plans — the nature of the employees' rights. *U. Ill. L.F.*, Spring, pp. 32-62.

CRIBBET, JOHN E., Dean and Professor

Reviews

The Oxford Law School, by F. H. Lawson. *A.B.A.J.*, 54:1210-11.

Waters and water rights, by Robert E. Clark. *Ibid.*, pp. 66-67.

HAY, PETER, Professor

Articles

Symposium on international unification of law. *Amer. J. Compar. Law*, 16, Nos. 1-2, 300 pp.

The common market preliminary draft convention on the recognition and enforcement of judgments — some considerations of policy and interpretation. *Amer. J. Compar. Law*, 16:149-74.

Foreword to: Symposium on international unification of law. *Ibid.*, pp. 1-3.

Reviews

Manual of public international law, by Max Sorensen. *Univ. Wash. L.R.*, 44:335-40.

Legal aspects of foreign investment in the European economic community, by B. Balekjian. *Amer. J. Intl. Law*, 63: 181-82.

KRAUSE, HARRY D., Professor

Articles

Bastards abroad — foreign approaches to illegitimacy. *Amer. J. Compar. Law*, 15: 726-31.

LaFAVE, WAYNE R., Professor

Articles

"Street encounters" and the constitution: Terry, Sibron, Peters and beyond. *Mich. L. Rev.*, 67:39-126.

Bulletins and Technical Reports

Standards relating to trial by jury, minimum standards for criminal justice. *Amer. Bar Assn.*, Chicago, 180 pp.; 6 Law Training Bulletins. *Chicago Police Dept.*, 24 pp.

Reviews

Privacy and freedom, by Alan Westin. *Vill. L. Rev.*, 13:700-05.

Behind the shield, by Arthur Niederhoffer; The big blue line, by Ed Cray. *Univ. Pa. L. Rev.*, 117:364-69.

MAGGS, PETER B., Associate Professor

Articles

Negative votes in Soviet elections. In *Res Baltica*, ed. by Sprudz and Ruis, Sijthoff, Leyden, pp. 146-51.

Unification of law in eastern Europe. *Amer. J. Compar. Law*, 16, 1 & 2:107-26.

Mc CORD, JOHN H., Associate Professor

Books

Buying and selling small businesses. Univ. Minn. General Extension, Minneapolis, 238 pp.

Books Edited

With R. E. Keeton, J. O'Connell

Crisis in car insurance. Univ. Ill. Press, Urbana, 273 pp.

Articles

Immunity of federal employees. *Personal Injury Commentator*, 10, 4:21-31.

Selling a proprietorship—tax considerations. *Prac. Law.*, 14, 5:57-68.

Incorporating a going business. In *25th Ann. Fed. Tax Course*. Inst. Cont. Ed. Ill. Bar, Springfield, pp. 7-1 to 7-55.

Pension plans: current problems. *U. Ill. L. F.*, 1967, 4:691-854, and 1968, 1:1-103.

With R. E. Keeton, J. O'Connell

Changes for automobile claims? *Ibid.*, 3: 361-633.

O'CONNELL, JEFFREY, Professor

Books Edited

With R. E. Keeton, J. McCord

Crisis in car insurance. Univ. Ill. Press, Urbana, 273 pp.

Articles

With R. E. Keeton

Basic protection automobile insurance. In *Crisis in car insurance*, ed. by Keeton, O'Connell and McCord, Univ. Ill. Press, Urbana, pp. 40-79.

Excerpts from basic protection for the traffic victim—a blueprint for reforming automobile insurance. In *Dollars, delay and the automobile victim*, Bobbs-Merrill Co., Indianapolis, Ind., pp. 307-69.

A new plan for car insurance. In *The consuming public*, ed. by McClellan, H. W. Wilson Co., N.Y., pp. 170-80.

Basic protection and its impact on automobile insurance. *Mich. St. B. J.*, 47, 2: 13-21.

The basic protection plan for traffic accident cases. *Notre Dame L.*, 47, 2:184-92.

A non-fault concept. *J. Mo. B.*, 24:334-35; 338-39.

Industry and the academic researcher. *Ia. L. Rev.*, 53, 6:1269-84.

The road ahead for automobile insurance. *Conn. L. Rev.*, 1, 1:22-32.

Basic protection and court congestion. *Trial Judges J.*, 7:16-17.

PLAGER, SHELDON J., Professor

Books

With F. E. Maloney, F. N. Baldwin

Water law and administration—the Florida experience. Univ. Fla. Press, Gainesville, 488 pp.

Articles

Some observations on the law of water allocation as a variable in industrial site location. *Wis. L. Rev.* p. 673.

Interference with the public right of navigation and the riparian owner's claim of privilege. *Mo. L. Rev.*, 33:608.

Social elements and relationships within urban systems: implications for action and research programs—the role of law. Center for Urban Studies, Univ. of Ill., Discussion Paper Series, No. 7.

With F. E. Maloney

Diffused surface water: scourge or bounty. *Natural Resources J.*, 8:72.

Emerging patterns for regulation of consumptive use of water in the eastern United States. *Ind. Law J.*, 43:383.

Multiple interests in riparian land, subdivision platting and the allocation of riparian rights. *J. of Urban Law*, 46:41.

Controlling waterfront development. Public Admin. Clearing Service, Studies in Public Admin. No. 30 (Florida 1968), 39 pp.

REISNER, RALPH, Professor

Articles

The conscientious objector exemption: administrative procedures and judicial review. *U. Chi. L. R.*, 35, 4:686-720.

St. Louis. In *Affirmative school integration*, ed. by Hill & Feeley, Sage Pubs., Beverly Hills, pp. 53-60.

SEMMELE, HERBERT

Articles

Collateral estoppel, mutuality and joinder of parties. *Colum. L. R.*, 68:1457-81.

YOUNG, J. NELSON, Professor

Bulletins and Technical Reports

New revenue sources and constitutional issues. Ill. Legis. Council, Bull. 6-652, pp. 51-62.

LIBRARY

BRICHFORD, MAYNARD J., Associate Professor

Articles

Scientific and technological records. *Amer. Archivist*, 31, 1:126-28; 3:342-43; 4:426.

A university archivist looks at business archives. In *Papers of the 15th annual meeting of the business history conferences*, ed. by Fred Bateman and James D. Foust, Grad. School of Business, Indiana Univ., Bloomington, pp. 106-8.

Reviews

Documenting ADP operations by Interagency Records Administration Conference, 1966-67. *Amer. Archivist*, 31, 2:189-90.

The University of Illinois 1867-1894, an intellectual and cultural history, by Winton U. Solberg. *Ill. Alumni News*, 47, 8:4.

BLUM, ELEANOR, Associate Professor

Articles

Other books and pamphlets on journalistic subjects. *Journ. Q.*, 45, 1:169-73; 2:369-73; 3:577-82; 4:763-70.

BRIGGS, DONALD R., Instructor

Articles

Gift appraisal policy in large research libraries. *Coll. and Res. Libs.*, 29:505-7.

BROWN, D. ALEXANDER, Professor

Articles

Brice's crossroads. *Civil War Times*, 7, 1: 4-9; 44-48.

The million dollar wagon train. *Ibid.*, 8, 6:12-20.

Jim Bridger—a personality profile. *Amer. History*, 3, 4:4-11, 44-47.

Animals. *Compton Yearbook*, pp. 113-14.

Conservation. *Ibid.*, p. 203.

Sugar. *Ibid.*, p. 437.

Reviews

- Conquest of Apacheria, by Dan L. Thrapp. *Amer. History*, 3, 1:49-50.
- Forts of the Upper Missouri, by Robert G. Athearn. *Ibid.*, 3, 3:50.
- Spanish war vessels on the Mississippi, 1792-96, by Abraham P. Nasatir. *Ibid.*, 3, 4:49.
- Life of George Bent, by George E. Hyde. *Ibid.*, 3, 5:49-50.
- The cattle towns, by Robert R. Dykstra. *Ibid.*, 3, 7:49-50.
- Thundergate: the forts of Niagara, by Robert W. Howard. *Ibid.*, 3, 7:51.
- The Apache frontier, by Max L. Moorhead. *Ibid.*, 3, 8:49.

BROWN, NORMAN B., Associate Professor

Articles

With W. H. Huff

- Price indexes for 1968: serial services. *Lib. J.*, 93, 13:2622-23.

DEAL, CARL W., Associate Professor

Articles

- Bibliographic aids for collecting current Latin American materials. In *Twelfth seminar on the acquisition of Latin American library materials, final report and working papers*. Pan American Union, Wash., D.C., pp. 113-32.

DOWNS, ROBERT B., Dean of Library Administration

Articles

- Education for librarianship in the United States and Canada. In *Library education: an international survey*. Univ. Ill. Grad. Sch. of Lib. Sci., Urbana, pp. 1-20.
- Status of academic librarians in retrospect. *Coll. and Res. Libs.*, 29:253-58.
- Foreword to Ralph E. McCoy's *Freedom of the press: an annotated bibliography*. Southern Ill. Univ. Lib., Carbondale, pp. vii-xi.

Bulletins and Technical Reports

- Resources of Canadian academic and research libraries. Assn. Universities and Colleges of Canada, Ottawa, Canada, 301 pp.
- Interinstitutional cooperation: values and limitations. Assn. of American Colleges, Washington, D.C., 6 pp. (College library problems IV.)

Reviews

- Library surveys, by Maurice F. Tauber. *Coll. and Res. Libs.*, 29:160-62.

HUFF, WILLIAM H., Professor

Articles

- Periodicals. In *Bibliography: current state and future trends*, ed. by Robert B. Downs and Frances B. Jenkins. Univ. Ill. Press, Urbana, 1967, pp. 62-83.
- Serial observations—1967. *Lib. Res. and Tech. Serv.*, 12, 2:189-202.
- Annuals. In *Encyclopedia of library and information science*, ed. by Allen Kent and Harold Lancour. Marcel Dekker, Inc., N.Y., 1:434-48.

With N. B. Brown

- Price indexes for 1968: serial services. *Lib. J.*, 93, 13:2622-23.

LANIER, DONALD L., Instructor

Reviews

- Resources of Texas libraries, by Edward G. Holley and Donald D. Hendricks. *RQ*, 8: 62-63.

TALMADGE, ROBERT L., Professor

Articles

- One library's case against conversion. In *Problems in library classification: Dewey 17 and conversion*, ed. by Samore. R. R. Bowker Co., N.Y., pp. 65-82.

WHITE, LUCIEN W., Professor

Articles

- University of Illinois award winning undergraduate library. *Ill. Libs.*, 50, 10:1042-46.

Reviews

- L'Accueil fait au Symbolisme en Belgique, 1885-1900, by Herman Braet. *Fr. Rev.*, XLI:889-90.

WHITE, ROBERT C., Associate Professor

Articles

- Early geographical dictionaries. *Geog. Rev.*, 58, 4:652-59.

VAN NORD, JOAN E., Assistant Professor

Articles

- Illinois school librarian: an historical survey. *Ill. Libs.*, 50, 9:855-59.

LIBRARY SCIENCE

ALLEN, WALTER C., Assistant Professor

Reviews

- This changing earth, by John A. Shimer. *Lib. J.*, 93, 2:198.
- Hunting for fossils; guide to finding and collecting fossils in all fifty states, by Marian Murray. *Ibid.*, 93, 5:1012.
- Gems, minerals and rocks in Southern Africa, by M. R. McIver. *Ibid.*, 93, 9:1910.
- Spike and chain: Japanese fighting arts, by Charles V. Gruzanski. *Ibid.*, 93, 10:2017.
- The forging of our continent, by Charlton Ogburn. *Ibid.*, 93, 13:2677.
- The badge of gallantry, by Joseph B. Mitchell. *Ibid.*, 93, 21:4554.

BERNER, WILLIAM S., Research Associate

Bulletins and Technical Reports

With R. G. Lindahl

- Financing public library expansion. Ill. State Lib., Res. Series, Springfield, 13:64 pp.

BONE, LARRY E., Assistant Professor

Books Edited

- Education for librarianship: an international survey. Grad. Sch. of Lib. Sci., Univ. Ill., Urbana, 388 pp.

GOLDHOR, HERBERT, Director of Graduate School of Library Science

Books Edited

- Research methods in librarianship: measurement and evaluation; papers presented at a conference conducted by the University of Illinois Graduate School of Library Science, Sept. 10-13, 1967. Grad. Sch. of Lib. Sci., Univ. Ill., Urbana, 131 pp.

Articles

- Library personnel—crisis and challenge, Part III: What are the problems of training personnel? In *Libraries in transition: responses to change; selected papers from North Central Library Conference, Milwaukee, Wisc., Oct. 14-16, 1967*. Wisc. Lib. Assn., Madison, Wisc., pp. 31-32.
- Doctoral program—University of Illinois. *J. Educ. for Libship*, 8, 4:269-71.

Reviews

National conference on library statistics, ed. by Alphonse F. Trezza and James Beasley. *Lib. J.*, 93, 8:1600.

HENDERSON, KATHRYN L., Assistant Professor

Books Edited

Trends in American publishing; papers presented at an institute conducted by the Univ. Ill. Grad. School of Library Science, Nov. 5-8, 1967. Univ. Ill., Urbana, 105 pp.

KIDDER, FREDERICK E., Visiting Associate Professor

Reviews

Colombia: The political dimensions of change, by Robert H. Dix. *Choice*, 5:868.

The Brazilian capital goods industry, 1929-1964, by Nathaniel H. Leff. *Lib. J.*, 93, 20:4289.

Constructive change in Latin America, ed. by Cole Blasier. *Ibid.*, 93, 19:4159.

A search for stability, by William Kamman. *Ibid.*, 93, 15:3014.

Political trends in Brazeil, by Vladimir Reisky de Dubnic. *Choice*, 5:1369.

KÓSA, GÉZA A., Research Assistant

Books

Who's who in Australian libraries. Lib. Assn. of Australia, Sydney, 181 pp.

LEONARD, LAWRENCE E., Research Associate

Articles

Colorado academic libraries book processing center: a feasibility study. *Coll. and Res. Libs.*, 29:393-99.

Colorado academic libraries book processing center: a feasibility study turned feasible. *The Colorado Academic Lib.*, 4:1-4.

Colorado academic libraries book processing center and BEACON: tune in, turn on. *Ibid.*, 4:4-7.

Bulletins and Technical Reports

Cooperative and centralized cataloging and processing: a bibliography, 1850-1967. Univ. Ill. Grad. Sch. of Lib. Sci., *Occasional Paper No. 93*: 89 pp.

With Joan M. Maier and R. M. Dougherty
Colorado academic libraries book processing center study. Final report to the National Science Foundation. Univ. of Colorado, Boulder. 388 pp.

LOHRER, ALICE, Professor

Articles

Library development plans for Gondi Shahpoor University. In *Report of the Fulbright study team on Gondi Shahpoor University, April, 1967*. U. S. Commission for Cultural Exchange with Iran, pp. 57-71.

Fulbright lecturer returns. Univ. Ill. Lib. Sch. Assn. *News Letter*, 81:14-16.

The Illinois Association of School Librarians: an historical perspective. *Ill. Libs.*, 50, 9:875-82.

MEYERS, JUDITH K., Instructor

Reviews

Today I am a ham, by Ethelyn Parkinson. *Sch. Lib. J.*, 93, 10:2115.

The Wright Brothers: pioneers of flight, by Carroll Glines. *Lib. J.*, 93, 8:1810.

A new mathematics reader, by Evelyn Sharp. *Ibid.*, 93, 6:1330.

Speed Math, by Frank Clark. *Ibid.*, 93, 12:2545.

Take a number, by Mary O'Neill. *Ibid.*, 93, 18:3958.

It's all done by numbers, by Douglas St. Paul Barnard. *Ibid.*, 93, 18:3965.

The Abacus: a pocket computer, by Jesse Dilson. *Ibid.*, 93, 18:3968.

RIKE, GALEN E., Research Associate

Bulletins and Technical Reports

Statewide library surveys and development plans: an annotated bibliography, 1956-1967. Ill. State Lib., Res. Series, Springfield, 14:105 pp.

SIMPSON, JEROME D., Research Associate

Articles

Book reviewing media. *RQ*, 8, 1:35.

Reviews

The end of obscenity, by Charles Rembar. *Sat. Rev.*, 51, 28:30.

STENSTROM, RALPH H., Research Associate

Bulletins and Technical Reports

The emergence and development of public library systems in Illinois. Ill. State Lib., Res. Series, Springfield, 15:98 pp.

STEVENS, ROLLAND E., Professor

Books

Reference books in the social sciences and humanities (2d ed.). Distributed by Illini Union Bookstore, Champaign, 181 pp.

Articles

The library. *J. Higher Educ.*, 39, 1:45-57; 4:233-34; 7:407-09.

DOCTORAL DISSERTATIONS

Littleton, Isaac T. (R. E. Stevens, Adviser), The bibliographic organization and use of the literature of agricultural economics.

LINGUISTICS

ABDO, DAUD A., Instructor

Books

With Sahwa N. Abdo

Arabic writing and sound systems. Ras Beirut Bookshop, Bierut, Lebanon, 126 pp.

JENKINS, F. M. Associate Professor

See French.

KACHRU, BRAJ B., Associate Professor and Head of Department

Books

A grammatical sketch of Kashmiri. East West Books (India), Dhanbad, 101 pp.

Articles

Some notes on the copulative sentences in Kashmiri. *Found. Language, Suppl. Series*, 8, 3:20-43.

Reviews

Language teaching: a scientific approach by Robert Lado. *Linguistics*, 31:87-108.

KACHRU, YAMUNA, Associate Professor

Books

Studies in a transformation grammar of Hindi. East West Books (India), Dhanbad, 135 pp.

Articles

- The copula in Hindi. *Found. Language, Suppl. Series, 6*, 2:35-59.
- Nominal complement constructions in Hindi. In *Proc. Seminar on Appl. Linguistics to Lang. Teaching*, Central Institute of Hindi, Agra, India, pp. 295-311.

KAHANE, H. R. Professor

See Spanish.

KIM, CHIN W., Assistant Professor

Articles

- When liquids become glides. *Chicago J. Linguistics, 2*:45-50.
- The vowel system of Korean. *Language, 44*: 516-27.
- Some phonological rules in Korean. *Studies in Lang. and Lit., 5*:153-77.

LIGHTNER, THEODORE M., Assistant Professor

Articles

- On the phonology of Russian conjugation. *Linguistics, 35*:35-55.
- An analysis of *akan'e* and *ikan'e* in modern Russian using the notion of markedness. In *Studies presented to Professor Roman Jakobson by his students*, Slavica Pub. Inc., Cambridge, pp. 188-200.

Reviews

- Readings in linguistics (vol. I), ed. by Martin Joos. *General Linguistics, 5*:59-68.

ZWICKY, ARNOLD M., Assistant Professor

Articles

- Umlaut and noun plurals in German. *Studia Grammatica, 6*:35-45.
- Naturalness arguments in syntax. In *Papers from the 4th regional meeting, Chicago Linguistic Society*, ed. by Darden, Bailey and Davison, Dept. of Linguistics, Univ. Chicago, pp. 94-102.

DOCTORAL DISSERTATIONS

- Baker, Carl L. (H. S. MacLay, Adviser), Indirect questions in English.
- Cheng, Chin-chuan (H. R. Kahane, Adviser), Mandarin phonology.
- Fox, Robert P. (B. B. Kachru, Adviser), A transformational treatment of Indian English syntax.
- Makino, Seiichi (H. R. Kahane, Adviser), Some aspects of Japanese nominalizations.

MARKETING

DOCTORAL DISSERTATIONS

- Lange, Irene L. (D. L. Kemmerer, Adviser), Marketing institutions in the economic development of Puerto Rico, 1950-1964.
- Lyon, Herbert L. (R. Ferber, Adviser), Combining time series and cross-section data: an analysis of aggregate cigarette demand.
- VonRiesen, Richard D. (R. Ferber, Adviser), The determination of optimum numbers of retail sales personnel as a queuing problem.
- Zabriskie, Noel B. (F. M. Jones, Adviser), Oligopolistic competition and cigarette marketing, 1946-1965.

MATHEMATICS

AGGARWAL, SATISH K., Assistant Professor

Articles

- Transference theorems in the field of formal

power series. *Monatshefte für Mathematik, 72*:97-106.Homogeneous approximation in the field of formal power series. *Proc. Natl. Inst. Sci., 34, A*:242-49.

ALBRECHT, FELIX R., Professor

Books

Topics in control theory. Springer-Verlag, Berlin-Heidelberg-N.Y., 65 pp.

ALEXANDER, JOHN R., Assistant Professor

Articles

A problem about lines and ovals. *Amer. Math. Monthly, 75, 5*:485-87.

APPEL, KENNETH I., Associate Professor

Articles

One variable equations in free groups. *Proc. Amer. Math. Soc., 19*:912-18.

With F. M. Djorup

On the equation $z_1^n z_2^n \dots z_k^n = y^n$ in a free semigroup. *Trans. Amer. Math. Soc., 134*:461-70.

ASH, CAROL, Instructor

Articles

A plausibility argument for l'Hôpital's rule. *Math. Teacher, 61, 4*:403-4.

BABAKHANIAN, ARARAT, Assistant Professor

Articles

On primitive elements in differentially algebraic extension fields. *Trans. Amer. Math. Soc., 134*:71-83.

BANK, STEVEN B., Associate Professor

Articles

On principal solutions of linear differential equations. *Proc. Amer. Math. Soc., 19, 3*:724-32.On solutions having large rate of growth for nonlinear differential equations in the complex domain. *J. Math. Anal. Appl., 22, 1*:129-43.On the structure of a fundamental set of solutions near an irregular singularity. *Funkcial. Ekvac., 11, 2*:87-100.

With G. Orland

A note on Rouche's theorem. *Fund. Math., 63, 2*:137-41.

BERG, I. DAVID, Associate Professor

Articles

With L. A. Rubel

Densities on locally compact abelian groups. *Bull. Amer. Math. Soc., 74*:298-300.

With M. Rajagopalan, L. A. Rubel

Uniform distribution in locally compact abelian groups. *Trans. Amer. Math. Soc., 133*: 435-46.

BERNDT, BRUCE C., Assistant Professor

Articles

An identity for certain Dirichlet series. *Glasgow Math. J., 9, 2*:79-82.

BISHOP, RICHARD L., Associate Professor

Books

With S. I. Goldberg

Tensor analysis on manifolds. The Macmillan Co., N.Y., 280 pp.

Articles

The holonomy algebra of immersed manifolds

of codimension two. *J. Differen. Geom.*, 2, 4:347-53.

Reviews

Differential geometry, by Louis Auslander. *Math. Revs.*, 35, 2:417-18.

BOHRER, ROBERT E., Assistant Professor

Articles

A note on tolerance intervals with type I censoring. *Technometrics*, 10, 2:392.

Operating characteristics of some sequential design rules. *Ann. Math. Stat.*, 39, 4: 1176-85.

BOONE, WILLIAM W., Professor

Articles

Decision problems about algebraic and logical systems as a whole and recursively enumerable degrees of unsolvability. In *Contributions to mathematical logic*, ed. by K. Schütte, North-Holland Pub. Co., Amsterdam, pp. 13-33.

With W. Haken, V. Poenaru

On recursively unsolvable problems in topology and their classification. *Ibid.*, pp. 37-74.

BURKHOLDER, DONALD L., Professor

Articles

Independent sequences with the Stein property. *Ann. Math. Stat.*, 39, 4:1282-88.

CAIRNS, STEWART S., Professor

Books

Introductory topology (rev. ed.). Ronald Press Co., N.Y., 244 pp.

CHEN, KUO-TSAI, Professor

Articles

Normal forms of local diffeomorphisms on the real line. *Duke Math. J.*, 35:549-56.

Algebraic paths. *J. Algebra*, 10:8-36.

Homotopy of algebras. *Ibid.*, pp. 183-93.

CRAGGS, ROBERT F., Assistant Professor

Articles

Improving the intersection of polyhedra in 3-manifolds. *Ill. J. Math.*, 12, 4:567-86.

DAY, MAHLON M., Professor

Articles

Amenability and equicontinuity. *Studia Math.*, 31:481-94.

DIAMOND, HAROLD G., Assistant Professor

Articles

Characterization of derivations on an algebra of measures, II. *Math. Zeit.*, 105:301-6.

DOOB, JOSEPH L., Professor

Articles

Compactification of the discrete state space of a Markov process. *Z. Wahrscheinlichkeits-theorie und Verw. Gebiete*, 10:236-51.

Generalized sweeping out and probability. *J. Functional Anal.*, 2:207-25.

DORNHOFF, LARRY L., Assistant Professor

Articles

M-groups and 2-groups. *Math. Zeit.*, 100, 3:226-56.

Simple groups are scarce. *Proc. Amer. Math. Soc.*, 19, 3:692-96.

p-automorphic p-groups and homogeneous algebras. *Pacific J. Math.*, 26, 3:447-53.

With E. L. Spitznagel, Jr.

Density of finite simple group orders. *Math. Zeit.*, 106, 3:175-77.

FAUDREE, RALPH J., Jr., Assistant Professor

Articles

Automorphisms of finite subgroups of division rings. *Pacific J. Math.*, 26:59-65.

A note on the automorphism group of a p-group. *Proc. Amer. Math. Soc.*, 19:1379-82.

FOSSUM, ROBERT M., Associate Professor

Articles

Maximal orders over Krull domains. *J. Algebra*, 10, 3:321-32.

With L. Claborn

Generalizations of the notion of class group. *Ill. J. Math.*, 12, 2:228-53.

Class groups of n-noetherian rings. *J. Algebra*, 10, 3:263-85.

FRANCIS, GEORGE K., Assistant Professor

Articles

The folded ribbon theorem for regular closed curves in the plane. *Bull. Amer. Math. Soc.*, 74, 2:264-67.

FRASCELLA, WILLIAM J., Assistant Professor

Articles

Combinatorial designs on infinite sets. *Notre Dame J. Formal Logic*, 8:27-47.

FRIESEN, DONALD K., Assistant Professor

Articles

Finite rotation groups in low dimensions. *Canadian J. Math.*, 20, 3:711-19.

GOLDBERG, SAMUEL I., Professor

Books

With R. L. Bishop

Tensor analysis on manifolds. The MacMillan Company, N. Y., 280 pp.

Articles

On the topology of compact contact manifolds. *Tohoku Math. J.*, 20:106-10.

Manifolds admitting a one-parameter group of conformal transformations. *Mich. Math. J.*, 15:339-44.

Totally geodesic hypersurfaces of Kaehler manifolds. *Pacific J. Math.*, 27:275-81.

With S. Kobayashi

Holomorphic bisectonal curvature. *J. Differen. Geom.*, 1:225-33.

With D. E. Blair

Topology of almost contact manifolds. *Ibid.*, pp. 347-54.

HAKEN, WOLFGANG R. G., Professor

Articles

With W. Boone, V. Poenaru

On recursively unsolvable problems in topology and their classification. In *Contributions to mathematical logic*, ed. by K. Schütte, North-Holland Pub. Co., Amsterdam, pp. 37-74.

HEINS, MAURICE H., Professor

Books

Complex function theory. Academic Press, N.Y., 416 pp.

Articles

On the theorem of Szegő-Solomentsev. *Math. Scand.*, 20:281-89.

JOCKUSCH, CARL G., JR., Assistant Professor

Articles

Supplement to *Algebraic systems*, by W. W.

- Boone. In *Contributions to mathematical logic*, ed. by K. Schütte, North-Holland Pub. Co., Amsterdam, pp. 34-36.
- Semirecursive sets and positive reducibility. *Trans. Amer. Math. Soc.*, 131, 2:420-36.
- JOGDEO, SHISHIRKUMAR S., Associate Professor
- Articles
- Characterizations of independence in certain families of bivariate and multivariate distributions. *Ann. Math. Stat.*, 39:433-41.
- Asymptotic normality in nonparametric methods. *Ibid.*, pp. 905-22.
- With S. M. Samuels
- Monotone convergence of binomial probabilities and a generalization of Ramanujan's equation. *Ibid.*, pp. 1191-95.
- With Dharmadhikari, Fabian
- Bounds on the moments of martingales. *Ibid.*, pp. 1719-23.
- KAMBER, FRANZ W., Associate Professor
- Books
- With P. Tondeur
- Flat manifolds. Springer-Verlag, N.Y., Lecture Notes 67, 53 pp.
- Articles
- On the characteristic homomorphism of a discrete uniform subgroup of a nilpotent Lie group. *Bull. Amer. Math. Soc.*, 74, 4:690-94.
- KAUFMAN, ROBERT P., Associate Professor
- Articles
- Measures in independent sets. *Studia Math.*, 30:17-20.
- A construction in Boolean algebras. *Colloquium Math.*, 21:47-50.
- Problems on measure algebras. *Canadian J. Math.*, 20:291-97.
- On the symbolic calculus of Bernoulli convolutions. *Israel J. Math.*, 6:30-35.
- Some measures determined by mappings of the Cantor set. *Colloquium Math.*, 21:77-83.
- Some irregular distributions modulo 1. *Proc. Amer. Math. Soc.*, 19:592-94.
- On certain singular measures. *Colloquium Math.*, 21:264-69.
- Density of integer sequences. *Proc. Amer. Math. Soc.*, 19:1501-3.
- KNIGHT, FRANK B., Associate Professor
- Reviews
- Processus de Markov, by Paul-Andre Meyer. *Math. Revs.*, 36:454.
- LEVIATAN, DANY, Visiting Assistant Professor
- Articles
- Tauberian constants for generalized Hausdorff transformations. *J. London Math. Soc.*, 43, 2:308-14.
- Some moment problems in a finite interval. *Canadian J. Math.*, 20, 4:960-66.
- Moment problems and quasi-Hausdorff transformations. *Canadian Math. Bull.*, 11, 2:225-36.
- On approximation operators of the Bernstein type. *J. Approx. Theory*, 1, 3:275-78.
- LOEB, PETER A., Assistant Professor
- Articles
- A criterion for the proportionality of potentials with polar point support. *Rev. Roum. Math. Pures et Appl.*, 13, 8:1121-25.
- Sur la proportionnalite de potentiels dont le support est un point polaire. *C. R. Acad. Sc., Paris*, 266:291-92.
- With B. Walsh
- An axiomatic approach to the boundary theories of Wiener and Royden. *Bull. Amer. Math. Soc.*, 74, 5:1004-7.
- A maximal regular boundary for solutions of elliptic differential equations. *Ann. Inst. Fourier*, 18, 1:283-308.
- MARTI, JUERG T., Visiting Lecturer
- Articles
- Operational calculus for two commuting closed operators. *Comm. Math. Helv.*, 43:87-97.
- With J. Mennig
- S_{∞} neutron transport theory in plane geometry. *Nucl. Sci. Eng.*, 31:365-68.
- McLAUGHLIN, THOMAS G., Associate Professor
- Articles
- A theorem on intermediate reducibilities. *Proc. Amer. Math. Soc.*, 19, 2:87-90.
- MULLER, DAVID E., Professor
- Articles
- Use of multiple index matrices in generalized automata theory. *IEEE conference record on switching and automata theory*, 9th annual symposium, pp. 395-404.
- With G. R. Putzolu
- Frequency of decomposability among machines with a large number of states. *J. Computer and Sys. Sci.*, 2:3.
- OSBORN, HOWARD A., Professor
- Articles
- Modules of differentials, II. *Math. Annalen*, 175:146-58.
- OSGOOD, CHARLES F., Assistant Professor
- Articles
- The diophantine equation $P(x,y) = (xy + d)z$. *J. Res. Natl. Bur. Standards*, 72B, 1:23-28.
- PECK, N. TENNEY, Assistant Professor
- Articles
- Extreme points and dimension theory. *Pacific J. Math.*, 25:341-51.
- On non locally convex spaces, II. *Math. Annalen*, 178:209-18.
- A note on support points. *Bull. Amer. Math. Soc.*, 74:1103.
- PHILLIPS, CLARENCE A., Assistant Professor
- Articles
- Approach to the training of prospective elementary mathematics teachers. *J. Teacher Educ.*, 9:293-97.
- RAJAGOPALAN, M., Associate Professor
- Articles
- Topologies in locally compact groups. *Math. Annalen*, 176:168-80.
- Structure of monogenic groups. III. *J. Math.*, 12:205-14.
- With I. D. Berg, L. A. Rubel
- Uniform distribution in locally compact abelian groups. *Trans. Amer. Math. Soc.*, 133:435-46.
- With K. G. Witz
- On invariant means which are not inverse invariant. *Canadian J. Math.*, 20:222-27.

REINER, IRVING, Professor

Articles

An involution on $K^0(\mathbb{Z}G)$. *Mat. Zametke*, 3: 523-27.

A survey of integral representation theory. *Proc. Symposium Algebra*, Univ. Kentucky, Lexington, May, pp. 8-14.

With T. Hannula, T. Ralley

Modular representation algebras. *Bull. Amer. Math. Soc.*, 73:100-1. 1967.

ROBINSON, DEREK S., Assistant Professor

Articles

Residual properties of some classes of infinite soluble groups. *Proc. London Math. Soc.*, 3, 18:495-520.

A note on finite groups in which normality is transitive. *Proc. Amer. Math. Soc.*, 19:933-37.

Finiteness conditions for subnormal and ascending abelian subgroups. *J. Algebra*, 10:333-59.

A property of the lower central series of a group. *Math. Zeit.*, 107:225-31.

ROTHMAN, NEAL J., Associate Professor

Articles

An L' algebra for linearly quasi-ordered compact semigroups. *Pacific J. Math.*, 26, 3: 579-88.

ROTMAN, JOSEPH J., Professor

Articles

A completion functor on modules and algebras. *J. Algebra*, 9:369-87.

RUBEL, LEE A., Professor

Articles

With I. D. Berg, M. Rajagopalan

Uniform distribution in locally compact abelian groups. *Trans. Amer. Math. Soc.*, 133:435-46.

With I. D. Berg

Densities on locally compact abelian groups. *Bull. Amer. Math. Soc.*, 74:298-300.

With B. A. Taylor

A Fourier series method for meromorphic and entire functions. *Bull. Soc. Math. France*, 96:53-96.

Uniqueness theorems for analytic functions of one and of several complex variables. *Proc. Cambridge Phil. Soc.*, 64:71-82.

SATO, KEN-ITI, Visiting Lecturer

Articles

On the generators of non-negative contraction semi-groups in Banach lattices. *J. Math. Soc. Japan*, 20:423-36.

SCHUPP, PAUL E., Visiting Assistant Professor

Articles

On Dehn's algorithm and the conjugacy problem. *Math. Annalen*, 178:119-30.

STOUT, WILLIAM F., Assistant Professor

Articles

Some results on the complete and almost sure convergence of linear combinations independent random variables and martingale differences. *Ann. Math. Stat.*, 39, 5: 1549-62.

SUZUKI, MICHIO, Professor

Articles

A characterization of the simple groups

PSL(2,q). *J. Math. Soc. Japan*, 20, 1-2: 342-49.

On characterizations of linear groups, IV. *J. Algebra*, 8, 2:223-47.

TAKEUTI, GAISI, Professor

Articles

Formalization principle. In *Logic methodology and philosophy of science III*. North-Holland Pub. Co., Amsterdam, pp. 105-18.

The π_1^1 -comprehension schema and w-rules. In *Lecture notes in mathematics 70*, Springer-Verlag, Berlin, pp. 303-31.

A determinate logic. In *Lecture notes in mathematics 72*, Springer-Verlag, Berlin, pp. 237-64.

With M. Yasugi

Reflection principles of subsystems of analysis. In *Contributions to mathematical logic*, North-Holland Pub. Co., Amsterdam, pp. 255-73.

TING, TSUAN WU, Professor

Articles

Upper and lower bounds of the radii of gyration of convex bodies II. *J. Math. Mech.*, 18:357-68.

TONDEUR, PHILIPPE M., Associate Professor

Books

With F. W. Kamber

Flat manifolds. Springer-Verlag, N.Y., Lecture Notes 67, 53 pp.

TRJITZINSKY, WALDEMAR J., Professor

Articles

La totale-D de Denjoy et la totale-S symétrique. *Memorial des sciences mathématiques*, 166:1-104.

UHL, J. JERRY, JR., Assistant Professor

Articles

Orlicz spaces of finitely additive set functions, linear operators, and martingales. *Bull. Amer. Math. Soc.*, 73, 1:116-19.

Orlicz spaces of finitely additive set functions. *Studia Math.*, 29:19-58.

WIJSMAN, ROBERT A., Professor

Articles

Cross-sections of orbits and their application to densities of maximal invariants. *Proc. 5th Berkeley Symp. Math. Statist. Prob.*, 1:389-400.

Bounds on the sample size distribution for a class of invariant sequential probability ratio tests. *Ann. Math. Stat.*, 39:1048-56.

Reviews

Mathematical statistics, a decision theoretic approach, by Thomas S. Ferguson. *Ibid.*, pp. 2163-67.

WITZ, KLAUS G., Assistant Professor

Articles

With M. Rajagopalan

On invariant means which are not inverse invariant. *Canadian J. Math.*, 20:222-27.

WOOD, GEOFFREY V., Visiting Lecturer

Articles

S-rings on compact transformation groups. *Math. Zeit.*, 106:337-42.

DOCTORAL DISSERTATIONS

Bergman, John G. (N. J. Rothman, R. G. Bartle, Advisers), Harmonic analysis on algebraically irreducible semigroups.

- Bowen, Kenneth A. (G. Takeuti, Adviser), The relative consistency of some consequences of the existence of measurable cardinals.
- Corbett, Joseph W. (S. S. Cairns, Adviser), On isotopy types of complexes with application to knots.
- Davis, Burgess J. (D. L. Burkholder, Adviser), Martingale comparisons.
- Davis, James D. (G. Takeuti, Adviser), Measurable cardinals and NTT.
- Dollinger, Michael B. (R. G. Bartle, Adviser), Some aspects of spectral theory on Banach spaces.
- Fisher, Joe W. (E. C. Dade, Adviser), Decomposition theories for modules.
- Gaer, Marvin C. (L. A. Rubel, Adviser), Fractional derivatives and entire functions.
- Hall, Peter R. (M. E. Hamstrom, Adviser), Local connectivity of the space of homeomorphisms of a non-compact manifold.
- Jenkins, Joe W. (M. M. Day, Adviser), Symmetry of the group algebra of certain discrete groups.
- Kearns, Thomas J. (R. E. Block, Adviser), On representations of Lie algebras of classical type.
- Khurana, Surjit S. (A. I. Tulcea, Adviser), Measures and barycenters of measures on convex sets in locally convex spaces.
- Koehn, Uwe (R. A. Wijsman, Adviser), Global cross sections and invariant measures with applications to the densities of maximal invariants.
- Lewis, Robert E. (M. Suzuki, Adviser), On the Sylow two-subgroups of the alternating groups.
- Meeden, Glen D. (C. R. Blyth, Adviser), Some problems in prediction theory.
- Moretz, Marjorie A. (A. I. Tulcea, Adviser), Some properties of positive linear operators $T:L^1 \rightarrow L^1$.
- Pillai, Raman N. (C. R. Blyth, P. K. Pathak, Advisers), Some contributions to characterization problems in probability.
- Reid, Kenneth B., Jr. (E. T. Parker, Adviser), Structure in finite graphs.
- Roberts, Charles E., Jr. (G. G. Belford, P. W. Ketchum, Advisers), On the behavior of the integral curves of a third order autonomous system of differential equations in a neighborhood of a critical point.
- Showalter, Ralph E. (T. W. Ting, Adviser), Pseudo-parabolic partial differential equations.
- Staudte, Robert G. (C. R. Blyth, Adviser), Invariance theory and sequential estimation.
- Stout, William T., Jr. (I. Reiner, Adviser), Corresponding residue systems in normal extensions of algebraic number fields.
- Thomas, Charles G. (M. Suzuki, Adviser), A characterization of the Chevalley Groups $G_2(2^n)$.
- Torrance, Ellen M. (R. G. Bartle, Adviser), Adjoints of operators on Banach spaces.
- Trott, William R. (W. J. Trjitzinsky, Adviser), Density theorems relative to mean regular coverings and a transformation group in abstract measure space.
- Weber, Waldemar C. (S. I. Goldberg, Adviser), Conformal vector fields on compact Riemannian manifolds.
- Weger, Ronald C. (P. W. Ketchum, Adviser), A condition for positive definiteness on groups.

MECHANICAL AND INDUSTRIAL ENGINEERING

- ADDY, ALVA L., Associate Professor
- Articles
The analysis of supersonic ejector systems. *Ejectors*, Von Karman Institute LS 7, pp. B-1 to B-156.
- ADKINS, RICHARD W., Associate Professor
- Articles
With C. S. Larson, E. I. Radzimosky
Predicting the oil film thickness in hydrodynamically lubricated gears. ASME Publication 68-WA/LUB-5. Accepted for ASME Transactions. 7 pp.
- CHAO, BEI-TSE, Professor
- Articles
With L. S. Cheema
Unsteady heat transfer in laminar boundary layer over a flat plate. *Intnl. J. Heat Mass Transfer*, 11:1311-24.
With M. A. Shirazi, B. G. Jones
On the motion of small particles in a turbulent fluid field. *Devel. in Mechanics*, 4: 1179-1200.
With B. G. Jones, M. A. Shirazi
An experimental study of the motion of small particles in a turbulent fluid field using digital techniques for statistical data processing. *Ibid.*, pp. 1249-74.
- CHATO, JOHN C., Associate Professor
- Articles
A single-probe transient method for the measurement of thermal properties of biological materials. *Proc. 21st ACEMB*, 10: 51-5.
A method for the measurement of thermal properties of biological materials. In *Thermal problems in biotechnology*, ed. by J. C. Chato, ASME, N.Y., pp. 16-25.
With N. A. Gammon, B. A. Hertig, J. H. Streckert
On feasibility of metabolic heat removal without sweating by direct cooling of the skin. *Proc. 21st ACEMB*, 10:24.1.
- CHOW, WEN-LUNG, Professor
- Articles
Study of jet mixing problems by Meksyn's method. *AIAA J.*, 6, 12:2422-24.
With R. E. Eilers
Hypersonic low-density flow past slender wedges. *Ibid.*, 1:177-79.
- HARRIS, WARREN S., Professor
- Articles
Summary cooperative research on hydronic heating and cooling (rev. ed.). Research Series I-B-R-6. 66 pp.
With C. P. Armstrong
Temperature distribution and mass flow in steam and high temperature water jets simulating leaks, part 2. *ASHRAE Trans.* semi-annual meeting, Feb., 74, I:11.2.1.
With R. J. El Assar
Counterflow of steam and condensate in vertical pipes. *Ibid.*, pp. 11.1.1.
- HERING, ROBERT G., Professor
- Articles
Radiative heat exchange and equilibrium surface temperature in a space environment. *J. Spacecraft and Rockets*, 5, 1:47-54.

With R. P. Bobco

A second order approximation for local radiant flux and temperature in semigray nondiffuse enclosures. *Ibid.*, 11:1271-78.

With T. Degenhart

Radiant energy transport through a circular tube. *Trans. ASME, J. Heat Transfer, Series C, 90*, 4:489-91.

With T. Smith

Surface radiation properties from electromagnetic theory. *Intnl. J. Heat Mass Transfer*, 11, 10:1567-71.

HERTIG, BRUCE A., Associate Professor

Articles

Measurements of the physical environment. In *Adaptation of domestic animals*, E. S. E. Hafez, ed. by Lea and Febiger, Philadelphia, pp. 324-37.

Ergonomics in the practice of industrial hygiene. In *Industrial hygiene high lights*, ed. by L. V. Cralley, L. J. Cralley and G. D. Glayton, Indus. Hygiene Found., Pittsburgh, pp. 229-43.

With L. B. Oscai, B. T. Williams

Effect of exercise on blood volume. *J. Appl. Physiol.*, 24:622-24.

With J. C. Chato, N. A. Gammon, J. H. Streckert

On feasibility of metabolic heat removal without sweating by direct cooling of the skin. *Proc. 21st ACEMB*, 10:24.1.

JONES, BARCLAY G., Associate Professor

See Nuclear Engineering.

LARSON, CARL S., Assistant Professor

Articles

With R. W. Adkins, E. I. Radzimovsky

Predicting the oil film thickness in hydrodynamically lubricated gears. *ASME Publication 68-WA/LUB-5*. Accepted for ASME Transactions. 7 pp.

OFFNER, DAVID H., Associate Professor

Articles

Generalizing the analysis of shoe-type brake-clutch system. *ASME Publication 68-WA/DE-2*. Accepted for ASME Transactions. 8 pp.

RADZIMOVSKY, EUGENE I., Professor

Articles

Dynamic face seal, equalizing device show promise. *Oil and Gas J.*, Dec. 9, pp. 84-87.

With S. M. Mamoun

Efficiency of gear transmissions subjected to axial vibrations. *Wissenschaftliches Mitteilungen Ukr. Techn. Wirtschaft. Inst. XVII(XIX) 1968*. München.

With R. W. Adkins, C. S. Larson

Predicting the oil film thickness in hydrodynamically lubricated gears. *ASME Publication 68-WA/LUB-5*. Accepted for ASME Transactions. 7 pp.

SOO, SHAO L., Professor

Books

Direct energy conversion. Prentice-Hall, Englewood Cliffs, N.J., 333 pp.

Articles

Non-equilibrium fluid dynamics — laminar flow over a flat plate. *J. Appl. Math. and Phys.*, (ZAMP), 19:545-63.

With C. Wu, R. C. Dimick

Recombination coefficients and transport prop-

erties of an ionized suspension. Inter-society Energy Conversion Engineering Conference 1968 Record, *IEEE*, pp. 915-25.

Bulletins and Technical Reports

With L. W. Rodgers

An electroaerodynamic precipitator. 61st Ann. Meeting, APCA, St. Paul, Minn., June 26, 1968. (Patent of S. L. Soo, Univ. Ill. Foundation.) Paper No. 68-104. 13 pp.

With J. J. Stukel, J. M. Hughes

A preliminary study of hydrodynamics of a two-stage electrostatic precipitator element. *Ibid.*, Paper No. 68-103. 31 pp.

STOECKER, WILBERT F., Professor

Books

Principles for air conditioning practice. Industrial Press, N.Y., 160 pp.

Articles

With G. L. Wedekind

Theoretical model for predicting the transient response of the mixture-vapor transition point in horizontal evaporating flow. *Trans. ASME, J. Heat Transfer*, 90, 1:165-72.

STUKEL, JAMES J., Assistant Professor

Bulletins and Technical Reports

With S. L. Soo, J. M. Hughes

A preliminary study of hydrodynamics of a two-stage electrostatic precipitator element. 61st Ann. Meeting, APCA. St. Paul, Minn., June 26, 1968, Paper No. 68-103, 31 pp.

DOCTORAL DISSERTATIONS

Brown, Eugene F. (W. L. Chow, Adviser), Compressible flow through convergent conical nozzles with emphasis on the transonic region.

El-Assar, Rateb J. (W. L. Chow, Adviser), Kinetic study of the hypersonic flow past the leading edge of a flat plate.

Hayes, Floyd C. (H. H. Korst, Adviser), Heat transfer characteristics of the air curtain: a plane jet subjected to transverse pressure and temperature gradients.

Lebeck, Alan O. (E. I. Radzimovsky, Adviser), Synthesis of tooth profiles and gears for increased load capacity based upon Hertz surface pressure considering contact ratio and bending strength.

Medrow, Robert A. (B. T. Chao, Adviser), Floating bubble configurations and charges of jet drops produced by bursting bubbles.

Stukel, James J. (S. L. Soo, Adviser), Turbulent flow of suspensions over parallel plates.

Wallhaus, Robert A. (K. J. Trigger, H. J. Zimmerman, Advisers), Work order selection and assignment.

Winterbauer, William L., Jr. (W. L. Chow, B. F. von Turkovich, Advisers), The determination of periodic pulsating flow in complex piping systems by the impedance method.

MICROBIOLOGY

ATWOOD, KIMBALL C., Professor

Articles

Summary of discussion on developmental biology of normal cells. *Cancer Res.*, 28: 1823-24.

BRYANT, MARVIN P., Professor

See Dairy Science.

CAMPBELL, L. LEON, Professor and Head of the Department

Articles

With J. A. DePinto

Pattern of action of the amylase and the cyclodextrinase of *Bacillus macerans*. *Arch. Biochem. Biophys.*, 125, 1:253-58.

Purification and properties of the amylase of *Bacillus macerans*. *Biochem.*, 7:114-20.

Purification and properties of the cyclodextrinase of *Bacillus macerans*. *Ibid.*, pp. 121-25.

With B. Pace

Physiology of growth at high temperatures. *J. Appl. Bacteriol.*, 31, 1:24-35.

With J. D. A. Miller, J. E. Hughes, G. F. Saunders

Physiological and biochemical characteristics of some strains of sulphate-reducing bacteria. *J. Gen. Microbiol.*, 52:173-79.

CLAYBROOK, JAMES R., Postdoctoral Fellow

Articles

With L. Nelson

Flagellar adenosine triphosphatase from sea urchin sperm: properties and relation to motility. *Science*, 162:1134-36.

DANIEL, VIOLET, Research Associate

Articles

With J. A. Grunau

On ϕ X174 DNA polymerase. *Biochim. Biophys. Acta*, 166:728-31.

DeMOSS, RALPH D., Professor

Articles

Kinases in *Leuconostoc mesenteroides*. *J. Bacteriol.*, 95, 5:1692-97.

With K. P. Gopinathan

The role of Tris(hydroxymethyl)amino-methane and cysteine in the dissociation of tryptophanase. *Biochem.*, 7:1685-91.

With M. Jean

Indolelactate dehydrogenase from *Clostridium sporogenes*. *Can. J. Microbiol.*, 14: 429-35.

With S. R. O'Neil

Tryptophan transaminase from *Clostridium sporogenes*. *Arch. Biochem. Biophys.*, 127: 361-69.

GRUNAU, JOHN A., Research Associate

Articles

With Violet Daniel

On ϕ X174 DNA polymerase. *Biochim. Biophys. Acta*, 166:728-31.

KALLIO, REINO E., Professor and Director of School of Life Sciences

Articles

With D. T. Gibson, J. R. Koch

Oxidative degradation of aromatic hydrocarbons by microorganisms. I. Enzymatic formation of catechol from benzene. *Biochem.*, 7:2653-62.

With D. T. Gibson, J. R. Koch, C. L. Schuld

Oxidative degradation of aromatic hydrocarbons by microorganisms. II. Metabolism of halogenated aromatic hydrocarbons. *Ibid.*, pp. 3795-3802.

KAPLAN, SAMUEL, Assistant Professor

Articles

With D. Anderson

Selection of temperature-sensitive activating

enzyme mutants in *Escherichia coli*. *J. Bacteriol.*, 95, 3:991-97.

McFADDEN, BRUCE A., Visiting Professor

Articles

With G. R. Rao, A. L. Cohen, T. E. Roche

Isocitrate lyase from *Pseudomonas indigofera*. V. Subunits and terminal residues and the relation to catalytic activity. *Biochem.*, 7:3574-82.

MEYER, RICHARD C., Associate Professor

See Veterinary Medicine.

ORDAL, Z. JOHN, Professor

See Food Science.

SPIEGELMAN, SOL, Professor

Articles

Studies of a replicating RNA molecule. In *Replication and recombination of genetic material*, ed. by Peacock and Brock, Australian Academy of Science, Canberra, pp. 1-26.

With A. Landy

Exhaustive hybridization and its application to an analysis of the RNA synthesized in T4-infected cells. *Biochem.*, 7:585-91.

With R. Levisohn

The cloning of a self-replicating RNA molecule. *Proc. Natl. Acad. Sci.*, 60, 3:866-72.

With D. W. Slater

Template capabilities and size distribution of echinoid RNA during early development. *Biochim. Biophys. Acta*, 166:82-93.

With D. H. L. Bishop, D. R. Mills

The sequence at the 5' terminus of a self-replicating variant of viral Q β ribonucleic acid. *Biochem.*, 7:3744-53.

The mechanism and direction of RNA synthesis templated by free minus strands of a "little" variant of Q β -RNA. *Prod. Natl. Acad. Sci.*, 60, 2:713-20.

With T. S. Eikhom, D. J. Stockley

Direct participation of a host protein in the replication of viral RNA *in vitro*. *Proc. Natl. Acad. Sci.*, 59, 2:506-12.

With N. R. Pace, D. H. L. Bishop

The immediate precursor of viral RNA in the Q β -replicase reaction. *Ibid.*, 59, 1: 139-44.

With N. R. Pace, I. Haruna

The preparation of an RNA replicase capable of synthesizing biologically active viral RNA. In *Methods of enzymology*, ed. by Grossman and Moldave, Academic Press, N.Y., 12:540-55.

With I. Haruna, N. R. Pace, D. R. Mills, D. H. L. Bishop, J. R. Claybrook, R. Petersen

The development and use of an *in vitro* system for RNA replication. In *The biochemistry of virus replication*, ed. by Laland and Froholm, Academic Press, N.Y., pp. 1-35.

SYIPHERD, PAUL S., Associate Professor

Articles

Ribosome development and the methylation of ribosomal ribonucleic acid. *J. Bacteriol.*, 95:1844-50.

With S. Fogel

Chemical basis for heterogeneity of ribosomal proteins. *Proc. Natl. Acad. Sci.*, 59, 4: 1329-36.

Extraction and isolation of individual ribo-

somal proteins from *Escherichia coli*. *J. Bacteriol.*, 96, 2:358-64.

With B. S. Vold

Changes in soluble RNA and ribonuclease activity during germination of wheat. *Plant Physiol.*, 43, 8:1221-26.

Modification in transfer RNA during the differentiation of wheat seedlings. *Proc. Natl. Acad. Sci.*, 59, 2:453-58.

WOESE, CARL R., Associate Professor

Articles

Primary structure homology within 23S ribosomal RNA. *Nature*, 220, 5170:923.

The fundamental nature of the genetic code: prebiotic interactions between polynucleotides and polyamino acids or their derivatives. *Proc. Natl. Acad. Sci.*, 59, 1:110-17.

With N. B. Hecht

Separation of bacterial ribosomal ribonucleic acid from its macromolecular precursors by polyacrylamide gel electrophoresis. *J. Bacteriol.*, 95, 3:986-90.

With N. B. Hecht, M. Bleyman

The formation of 5s ribosomal ribonucleic acid in *Bacillus subtilis* by posttranscriptional modification. *Proc. Natl. Acad. Sci.*, 59, 4:1278-83.

With J. C. Vary, H. O. Halvorson

A kinetic model for bacterial spore germination. *Ibid.*, 3:869-75.

WOLFE, RALPH S., Professor

Articles

With R. L. Jackson

Composition, properties, and substrate specificities of *Mycobacter* AL-1 protease. *J. Biol. Chem.*, 243, 5:879-88.

With M. P. Bryant, B. C. McBride

Hydrogen-oxidizing methane bacteria. I. Cultivation and methanogenesis. *J. Bacteriol.*, 95, 3:1118-23.

With K. F. Langenberg, M. P. Bryant

Hydrogen-oxidizing methane bacteria. II. Electron microscopy. *Ibid.*, pp. 1124-29.

With J. M. Wood, F. S. Kennedy

The reaction of multihalogenated hydrocarbons with free and bound reduced vitamin B₁₂. *Biochem.*, 7:1707-13.

WOLIN, MEYER J., Professor

See Dairy Science.

DOCTORAL DISSERTATIONS

Catena, Anthony (R. D. DeMoss, Adviser), Physiological and kinetic studies with anthranilate synthetase from *Bacillus alvei*.

David, Gary S. (A. Nisonoff, Adviser), Some physico-chemical properties of an IgA myeloma protein.

Fogel, Samuel (P. S. Sypherd, Adviser), Isolation and analysis of single ribosomal proteins from *Escherichia coli*.

Huang, Kuei-Huang, Studies of the intermediates in viral RNA replication.

MINING, METALLURGY, AND PETROLEUM ENGINEERING

ALTSTETTER, CARL J., Associate Professor

Articles

Thermal and athermal deformation of metals. In *Energetics in metallurgical phenomena, IV*, Gordon and Breach, Sci. Pubs., N.Y., pp. 1-79.

With R. Adams

Thermodynamics of the cobalt transformation. *Trans. AIME*, 242:139-44.

BECK, PAUL A., Professor

Books Edited

With T. J. Rowland

Magnetic and inelastic scattering of neutrons by metals. Gordon and Breach, Sci. Pubs., N.Y., 229 pp.

Articles

Possible close-packed ordered structures related to MoNi₄. *Acta Cryst.*, 24B:1477-81.

Survey of possible layer stacking structures. *Zeitschr. fur Kristallographie*, 124:101-14.

BIRNBAUM, HOWARD K., Professor

Articles

With H. Aaron, M. Wuttig

Zener disaccommodation in dilute Co-Ti alloys. *Acta Met.*, 16:269-84.

With M. Wuttig, J. T. Stanley

Interstitial solute trapping in irradiated and quenched iron. *Phys. Sta. Sol.*, 27:701-12.

With D. Loebach, P. Bowden

The effect of argon ion irradiation on the internal friction of gold. *Acta Met.*, 16: 997-1008.

With P. Peguin

A theory of the hysteretic contribution to internal friction; thermomechanical unpinning of dislocations. *J. Appl. Phys.*, 39:4428-37.

With C. Baker, M. Wuttig

Diffusion along edge dislocations in Ni-Co alloys. *Supplement to Trans. Japan Inst. Metals*, 9:268-72.

EHRlich, GERT, Professor

Articles

Atomistics of metal surfaces. *Proc. Intl. Symp. Surface Phenomena of Metals*, ICI Monograph No. 28, pp. 13-38.

With C. F. Kirk

Binding and field desorption of individual tungsten atoms. *J. Chem. Phys.*, 48:1465.

JEITSCHKO, WOLFGANG, Research

Associate

Articles

The crystal structure of Zr₄Co₄Ge₄(v-phase). *Naturwiss.*, 55:176.

The crystal structure of MoCoB and related compounds. *Acta Cryst.*, 32A:930-34.

The crystal structure of Fe₂AlB₂. *Ibid.*, B25: 163-65.

LAWRENCE, FREDERICK V., JR.,

Assistant Professor

Articles

Fatigue induced dislocation in alpha-iron single crystals. In *Materials technology— an interamerican approach*. Amer. Soc. Mech. Engrs., N.Y., pp. 516-29.

METZGER, MARVIN, Professor

Articles

Grain boundary corrosion in zone-refined and lower purity aluminum. *Trans. AIME*, 242: 2329-37.

With C. Lin

Interaction of a surface coating with edge and screw dislocations in zinc crystals. *Trans. Japan Inst. Metals*, 9:805-10.

With J. C. Billelo

On the modulus defect and recovered strain

- in microstrain studies. *Scripta Met.*, 2: 581-84.
- RISSER, HUBERT E.**, Professor
Bulletins and Technical Reports
 Gasification and liquefaction — their potential impact on various aspects of the coal industry. Ill. State Geological Survey Circ. 430, 28 pp.
- With R. L. Major*
 Minerals for construction. *Min. Cong. J.*, February, pp. 20-27.
- ROWLAND, THEODORE J.**, Professor
Books Edited
With P. A. Beck
 Magnetic and inelastic scattering of neutrons by metals. Gordon and Breach, Sci. Pubs., N.Y., 229 pp.
- SAJI, GENN**, Research Associate
Articles
 Excitation of higher space modes in reactor transfer function measurement (part I). *Nucl. Sci. and Eng.*, 32:93-100.
- SCHEIDEGGER, ADRIAN E.**, Professor
Articles
 Horton's law of stream order numbers and a temperature-analog in river nets. *Water Resources Res.*, 4:167-71.
 Horton's law of stream numbers. *Ibid.*, pp. 655-58.
 Horton's laws of stream lengths and drainage areas. *Ibid.*, pp. 1015-21.
 A complete thermodynamic analogy for landscape evolution. *Bull. Intl. Assn. Sci. Hydrol.*, 12, 4:57-62.
 A computer model for some branching-type phenomena in hydrology. *Ibid.*, 13, 1:5-13.
 Random graph patterns of drainage basins. *Trans. IASH Meeting*, Berne, "Hydrological aspects of the utilization of water," 1967, pp. 415-25.
- With J. R. Sturgul*
 Some applications of elastic notch theory to problems of geodynamics. *Pure and Appl. Geophys.*, 68:49-65.
- With T. R. Thakur*
 A test of the statistical theory of meander formation. *Water Resources Res.*, 4:317-29.
- With G. Ranalli*
 A test of the topological structure of river nets. *Bull. Intl. Assn. Sci. Hydrol.*, 13, 2:142-53.
- With C. L. Chung*
 A thermodynamic analogy for transport processes involving a non-positive definite transported quantity. *Ibid.*, 3:88-94.
- WAYMAN, C. MARVIN**, Professor
Articles
 The crystallography of martensitic transformation in alloys of iron. In *Advances in materials research*, Vol. 3, ed. by H. Herman, Wiley, Interscience Pubs., N.Y.-London, pp. 147-304.
 The geometry and substructure of martensite plates in steel. *J. Sheffield Univ. Metallurgical Soc.*, 7:19-29.
 Some aspects of the wear of metals and alloys, a discussion to the paper "Wear" by J. F. Archard. *Proceedings of NASA interdisciplinary conference on friction and wear*, Southwest Res. Inst., pp. 1-7.
- With G. R. Srinivasan*
 On the problem of the definitions and the mechanisms of the bainite reaction, discussion to paper by H. I. Aaronson. *Proceedings of symposium on phase transformations in crystalline solids*, Univ. Manchester, England, July, 5 pp.
 Isothermal transformations in an Fe-7.9Cr-1.1C alloy. *Trans. AIME*, 242:79-82.
 The crystallography of the bainite transformation. *Acta Met.*, 16:621-36.
 Transmission electron microscope study of the bainite transformation in Fe-Cr-C alloys. *Ibid.*, pp. 609-20.
- With M. Oka*
 (110) twinning in B.C.T. martensite. *Trans. AIME*, 242:337-38.
- With J. van Landuyt*
 On the habit planes of the suboxide phases TaO₇ and TaO₂ in tantalum. *J. Less Common metals*, 14:248-50.
 On the mechanism of formation of TaO₇-suboxide plates. *Proceedings of the 4th European regional conference on electron microscopy*, Rome, pp. 453-54.
 A study of oxide plate formation in tantalum: I. Growth characteristics and morphology. *Acta Met.*, 16:803-14.
 A study of oxide plate formation in tantalum: II. Crystallographic analysis. *Ibid.*, pp. 815-22.
- With G. B. Bilow*
 Some observations on thin silver films vapor deposited on NaCl at low temperatures. *Thin Films*, 1:1-18.
- With H. M. Clark, E. A. Merriman*
 Morphological studies of the $\beta \rightarrow \zeta^\circ$ and $\beta' \rightarrow \zeta^\circ$ transformations in equiatomic AgZn. *Proceedings of symposium on phase transformations in crystalline solids*, Univ. Manchester, England, July, 4 pp.
- WERT, CHARLES A.**, Professor
Articles
With G. Mah
 Interactions of carbon in solid solution in cobalt. *Trans. AIME*, 242:1211-16.
With M. G. Coleman, R. F. Peart
 Isotope effect for diffusion of iron in vanadium. *Phys. Rev.*, 175:788-95.
- DOCTORAL DISSERTATIONS**
 De Lamotte, Emmanuel (C. J. Alstetter, Adviser), Martensitic transformation of a cobalt-nickel alloy under tensile stress.
 Dollins, Charles C. (C. A. Wert, Adviser), Dislocation-interstitial interaction in the niobium-nitrogen system.
 Pulpan, Hans (A. E. Scheidegger, Adviser), Stress distribution around certain underground inhomogeneities.
 Shieh, Wei T. (C. A. Wert, B. G. Ricketts, Advisers), Elastic modulus effect in the interaction of point defects with dislocation ribbons.
 Tong, Hua-ching (J. J. Gilman, Adviser), High-resolution field ion microscopy.
- MUSIC**
BEHAGUE, GERARD H., Assistant Professor
Articles
 Biblioteca da ajuda (Lisbon) MSS 1595/1596: two eighteenth century anonymous collections of Modinhas. *Yearbook* (vol. 4), Inter-American Institute for Musical Research, pp. 44-81.

BINKERD, GORDON W., Professor

Music

Gradual and alleluia, let my prayer come like incense, for men's voices and organ. World Library of Sacred Music, Cincinnati, Ohio, 11 pp.

Gradual and alleluia, from your throne, o Lord, for unison male voices and organ. *Ibid.*, 16 pp.

Her definition, for baritone voice and piano. Boosey and Hawkes, Inc., N.Y., 6 pp.

Entertainment for piano. *Ibid.*, 12 pp.

Three canzonas for brass choir. *Ibid.*, 24 pp.

Confitebor tibi, for mixed voices. *Ibid.*, 8 pp.

Omnes gentes, for mixed voices. *Ibid.*, 10 pp.

Peace, for solo voice and piano, high voice. *Ibid.*, 5 pp.

Peace, for solo voice and piano, low voice. *Ibid.*, 5 pp.

Alleluia for St. Francis, for women's or men's voices and organ. *Ibid.*, 7 pp.

Alleluia for St. Francis, for women's or men's voices and piano. *Ibid.*, 7 pp.

String Quartet #2. *Ibid.*, 38 pp.

Compleynt, compleynt, for mixed voices. *Ibid.*, 24 pp.

The beautiful changes, for women's voices. *Ibid.*, 16 pp.

Nocturne, for solo cello and mixed voices. *Ibid.*, 23 pp.

FLETCHER, STANLEY, Professor

Articles

What does it take to be a teacher? *Period. ISMTA*, 6, 1:39-44.

GRAUE, JERALD C., Instructor

Articles

Musicological method in American graduate schools: University of Illinois. *Cur. Musicol.*, 5:31-33.

JOHNSTON, BENJAMIN B., Professor

Articles

On context. *Source, Music of the Avant Garde*, 2, 2, July, pp. 44-45.

LEONHARD, CHARLES, Professor

Books

With R. B. Smith

Discovering music together—early childhood. Follett Educational Corp., Chicago, 192 pp.

Articles

The next ten years. *Music Educators J.*, 55, 1:48-50.

LONDON, EDWIN, Visiting Lecturer

Music

A Washington miscellany for double chorus of treble voices. Associated Music Pub., Inc., N.Y., 15 pp.

Four proverbs for soprano solo and women's chorus with two trumpets and bassoon. Alexander Broude, Inc., N.Y., 17 pp.

The bear's song for tenor voice and piano. New Valley Music Press, Northampton, Mass., 11 pp.

LYKE, JAMES B., Assistant Professor

Books

Ensemble music for group piano (rev. ed.). Stipes Pub. Co., Champaign, Ill., 122 pp.

POWELL, MORGAN E., Instructor

Music

Sirhmrej for jazz ensemble. Apogee Press, Inc., Cincinnati, Ohio, 31 pp.

SMITH, ROBERT B., Associate Professor

Books

With C. Leonhard

Discovering music together—early childhood. Follett Educational Corp., Chicago, 192 pp.

TEMPERLEY, NICHOLAS M., Associate Professor

Reviews

A history of British music, by Percy M. Young. *Musical Times*, 109:241.

The land without music, by Bernarr Rainbow. *Ibid.*, pp. 337-38.

ZIMMERMAN, MARILYN P., Visiting Associate Professor

Articles

Music concept formation: a review of the literature. *Col. J. Res. Music Ed.*, 4, Spring, pp. 1-4.

With L. Sechrest

Brief focused instruction and musical concepts. *Psych. Schools*, 5, 2:99-105.

Conservation-type responses of children to musical stimuli. *Council Res. Music Ed.*, 13, Spring, pp. 19-36.

Bulletins and Technical Reports

With L. Sechrest

How children conceptually organize musical sounds. Northwestern Univ., Evanston, Ill., 233 pp.

Reviews

Aesthetics: dimensions for music education, by Abraham Schwadron. *J. Aesth. Educ.*, 2, 1:132-34.

DOCTORAL DISSERTATIONS

Andrus, Donald G. (L. A. Hiller, Adviser), An analysis of the acoustics of tamtam sounds.

Ballinger, James S. (C. Leonhard, Adviser), On objectivism and heuristic emergence in undergraduate music programs and administration.

Bilson, Malcolm (H. Kessler, Adviser), The emergence of the fantasy-style in the Beethoven piano sonatas of the early and middle periods.

Crockett, Barbara A. (S. Goldthwaite, Adviser), Liszt's opera transcriptions for piano.

Derr, Ellwood S. (J. R. Kelly, G. H. Hunter, G. W. Binkerd, Advisers), *Cefalo E Procri* (London, 1776) Dramatic Cantata for Three Voices and orchestra, by Johann Christian Bach.

Maharg, John V. (C. Leonhard, Adviser), The development and appraisal of a course in choral music.

Prince, Joe N. (C. Leonhard, Adviser), An evaluation of graduate music education programs at the University of Illinois.

Rochmann, Franz L. (C. Leonhard, Adviser), A theoretical basis for the teaching of music theory to music majors at the undergraduate college level.

Snow, Robert J. (C. E. Hamm, Adviser), The manuscript strahov D. G. IV. 47.

NATURAL HISTORY MUSEUM

HENRIKSEN, HARRY C., Curator of Exhibits

Articles

Resin immersion for preservation of some exhibit specimens. *Curator*, 11, 3:252-55.

Old specimens: something of value. *Museum News*, 47, 3:20-22.

HOFFMEISTER, DONALD F., Director
and Professor

Books

Zoo animals. Golden Press, N.Y., 160 pp. 1967.

Articles

Pygmy shrew, *Microsorex hoyi winnemana*, in Great Smoky Mountains National Park. *J. Mamm.*, 49, 2:331.

Camel. In *The world book encyclopedia*, Chicago, 3:64-67.

With L. L. Getz

Growth and age-classes in the prairie vole, *Microtus ochrogaster*. *Growth*, 32:57-69.

With W. W. Goodpaster

Notes on Ohioan mammals. *The Ohio J. Sci.*, 68:116-17.

Reviews

The Imperial Collection of Audubon animals, by John James Audubon, John Bachman, and Victor H. Cahalane. *J. Mamm.*, 49, 2:349-50.

SMITH, DOROTHY M., Assistant to
Director

Articles

With Philip W. Smith

China Dolls. *Living Museum*, 30, 8:60-61.

NUCLEAR ENGINEERING

AXFORD, ROY A., Professor

Articles

Analysis of temperatures in molten reactor fuel tube bundles. *ASME*, 68-WA/HT-31:1-12.

Summary of theoretical aspects of heat transfer performance in clustered rod geometries. In *Heat transfer in rod bundles*, ed. by ASME Nucleonics Heat Transfer Committee, ASME, N.Y., pp. 70-103.

Bulletins and Technical Reports

Integral-transform lie-series analysis of transient temperatures in reactor coolant channels. AEC Research and Development Report, LA-3833, Clearinghouse for Federal Scientific and Technical Information, Natl. Bur. Standards, U.S. Dept. Commerce, Springfield, Va., pp. 1-24.

BECK, GERALD P., Senior Research
Engineer

Articles

With B. Jones, N. Schilmocler, D. Hang

Thermal analyses of the forced cooling system of the Illinois advanced TRIGA reactor. *Trans. Am. Nucl. Soc.*, 11, 1:268-69.

CHILTON, ARTHUR B., Professor

Books Edited

With R. G. Jaeger, E. P. Blizard,
M. Grotenhuis, A. Hönig, others

Engineering compendium on radiation shielding (vol. 1). Springer-Verlag, N.Y., 537 pp.

Articles

Photon attenuation, broad beam attenuation, homogeneous mixtures, general and buildup factor. In *Engineering compendium on radiation shielding*, *Ibid.*, pp. 202-26.

Linear energy transformation for gamma ray Monte Carlo calculations. *NSE*, 34, 3:328.

Importance sampling in Monte Carlo shielding

calculations by a combination exponential and energy linearly dependent transformation. *Trans. ANS*, 11, 1:418.

JONES, BARCLAY G., Associate Professor

Articles

Recent developments in turbulence measuring and analyzing techniques. In *Advanced heat transfer*, ed. by B. T. Chao. Univ. Ill. Press, Urbana, pp. 339-72.

With W. Burchill, R. Stein

The influence of axial heat diffusion in liquid-metal-cooled ducts with specified heat flux. *J. Heat Transfer*, *Trans. A.S.M.E., Ser. C.*, 90:283-90.

With N. Schilmocler, G. Beck, D. Hang

Thermal analyses of the forced cooling system of the Illinois advanced TRIGA reactor. *Trans. Am. Nucl. Soc.*, 11, 1:268-69.

MILEY, GEORGE H., Professor

Articles

With J. E. Herceg

A laser utilizing a low-voltage arc discharge in helium-neon. *J. Appl. Physics*, 39, 4:2147-49.

With H. T. Sampson

High-voltage gamma-electric cell operation. *Nucl. Applications*, 5:145-55.

Bulletins and Technical Reports

With J. E. Herceg

Studies of a low-voltage arc laser. *Trans. Am. Nucl. Soc.*, 11, 1:16-17.

With H. Hassan

A comparison of calculated and experimental space-time dependent kinetics. *Ibid.*, 1:229.

A determination of the dynamic coupling coefficient. *Ibid.*, 2:575-76.

With P. K. Doshi

Reactor neutron pulse propagation in multiplying media. *Ibid.*, 1:191.

With H. A. Kurstedt, Jr.

A temperature formulation of the reactor kinetics equations. *Ibid.*, 2:576-77.

SCHILMOELLER, NEIL, Assistant
Professor

Articles

With G. Beck, D. Hang, B. Jones

Thermal analyses of the forced cooling system of the Illinois advanced TRIGA reactor. *Trans. Am. Nucl. Soc.*, 11, 1:268-69.

WEHRING, BERNARD W., Assistant
Professor

Articles

With E. M. Bohn, M. E. Wyman

Measurement of x-rays as a function of mass in the thermal fission of U^{235} . *Appl. Phys. Letters*, 12, 5:199-201.

With M. E. Wyman

A bent-crystal spectrometer for the measurement of K x-rays coincident with fission. *Nucl. Instr. Methods*, 61, 2:189-97.

With P. E. Rohan, N. L. Shapiro,
M. E. Wyman

The response of double-scintillator fission-fragment detectors to Cf^{252} . *Ibid.*, 62, 3:330-32.

With A. B. Long, M. E. Wyman

Procedure for determining the parameters from a fission fragment energy spectrum. *Rev. Sci. Instr.*, 39, 10:1566-68.

WYMAN, MARVIN E., Professor

Articles

With E. M. Bohn, B. W. Wehring

Measurement of x rays as a function of mass in the thermal fission of U^{235} . *Appl. Phys. Letters*, 12, 5:199-201.

With B. W. Wehring

A bent-crystal spectrometer for the measurement of K x rays coincident with fission. *Nucl. Instr. Methods*, 61, 2:189-97.

With P. E. Rohan, N. L. Shapiro, B. W. Wehring

The response of double-scintillator fission-fragment detectors to Cf^{252} . *Ibid.*, 62, 3: 330-32.

With A. B. Long, B. W. Wehring

Procedure for determining the parameters from a fission fragment energy spectrum. *Rev. Sci. Instr.*, 39, 10:1566-68.

DOCTORAL DISSERTATIONS

Bohn, Edward M. (M. E. Wyman, B. W. Wehring, Advisers), Measurement of x rays as a function of mass in the thermal fission of U^{235} .

Coates, David E. (F. T. Adler, Adviser), Studies in nuclear power reactor operations: I. optimisation of radial poison distribution during fixed fuel operation, II. cash-flow studied of power reactor operations under time-varying, non-equilibrium market conditions.

Doshi, Pratap K. (G. H. Miley, Adviser), Reactor neutron pulse propagation through multiplying media.

Hassan, Hassan A. (G. H. Miley, Adviser), Experimental and theoretical studies of space-time nuclear reactor kinetics.

Herceg, Joseph E. (G. H. Miley, Adviser), Studies of a helium-neon laser for low voltage operation.

Kurstedt, Harold A., Jr. (G. H. Miley, Adviser), The application of the kinetics equations solved in temperature to the short-interval series pulsing of a TRIGA reactor.

Saji, Genn (R. A. Axford, Adviser), Space-time kinetics for homogeneous and heterogeneous reactor models.

Song, Yo T. (A. B. Chilton, Adviser), Fast neutron streaming through concrete ducts.

Tsoufanidis, Nicholas (M. E. Wyman, B. W. Wehring, Advisers), Measurement of time dependent energy spectra of electrons from U^{235} fission fragments for electron energies below 1 MeV.

Vesely, William E., Jr. (A. B. Chilton, Adviser), A study of the effects of polarization, electron binding, and Rayleigh scattering in Monte Carlo gamma ray transport calculations.

PHILOSOPHY

CATON, CHARLES E., Professor

Articles

An apparent difficulty in Frege's ontology. In *Essays on Frege*, ed. by E. D. Klemke, Univ. Ill. Press, Urbana, pp. 99-112.

Reviews

Metaphysics, reference, and language, by J. W. Cornman. *Philosoph. Rev.*, 77, 3: 380-83.

CHANDLER, HUGH S., Associate Professor

Articles

Persons and predictability. *Australasian J. Phil.*, 46, 2:112-16.

Taylor's incompatibility argument. *Dialogue*, 7, 2:273-77.

Logical continuity. *Notre Dame J. Formal Logic*, 8:4.

Reviews

The discipline of the cave, by J. N. Findlay. *Philosoph. Rev.*, 77, 1:118-21.

DIGGS, BERNARD J., Professor

Articles

Practical representation. In *Representation, Nomos X*, ed. by Pennock and Chapman, Atherton Press, N.Y., pp. 28-37.

DONAGAN, ALAN H., Professor

Articles

Victorian philosophical prose: J. S. Mill and F. H. Bradley. In *The art of victorian prose*, ed. by Levine and Madden, Oxford Univ. Press, N.Y., pp. 53-72.

Is there a credible form of utilitarianism? In *Contemporary utilitarianism*, ed. by Bayles, Anchor Books, Doubleday and Co., N.Y., pp. 187-202.

FISCH, MAX H., Professor

Books

With T. G. Bergin

The new science of Giambattista Vico (rev. ed.). Cornell Univ. Press, Ithaca, N.Y., 441 pp.

Articles

Croce e Vico. *Rivista di studi Crociani*, 5, 1:9-30; 2:151-71.

GOTSCHALK, D. W., Professor

Books

Structure and reality (2nd ed.). Greenwood Press, N.Y., 292 pp.

Articles

Aesthetic education as a domain. *J. Aesthetic Educ.*, 2, 1:43-50.

Democracy and mutuality. *J. Thought*, 3, 4: 240-44.

MURPHY, JOHN P., Assistant Professor

Articles

Another note on a misreading of Wittgenstein. *Analysis*, 29, 2:62-64.

STALNAKER, ROBERT C., Associate Professor

Articles

A theory of conditionals. In *Studies in logical theory*, ed. by N. Rescher, Blackwell, Oxford, pp. 98-112.

With R. Thomason

Modality and reference. *Nous*, 2, 4:359-72.

WALLACE, JAMES D., Associate Professor

Articles

The beginning of the world. *Dialogue*, 6, 4:521-26.

Anti-naturalism. *Ethics*, 78, 4:296-302.

Mechanism and action. *Philosoph. Stud.*, 19, 6:88-92.

The duty to help people in distress. *Analysis*, 29, 2:33-38.

DOCTORAL DISSERTATIONS

Corliss, Richard L. (C. E. Caton, Adviser), A theory of contextual implication and its application to an analysis of religious belief.

Davis, Steven (C. E. Caton, Adviser), Illocutionary acts and transformational grammar.
 Douglas, George H. (M. H. Fisch, Adviser), Croce's aesthetic and theory of culture in *The Philosophy of Spirit*.

PHYSICAL EDUCATION FOR MEN

CURETON, THOMAS K., JR., Professor

Books

The physiological effects of exercise programs on adults. Charles C. Thomas, Pub., Springfield, Ill., 217 pp.

Articles

The relative value of stress indicators, related to prediction of strenuous athletic (treadmill) performance. *Biochem. Exercises, Med. and Sport*, 3:73-80.

Nutritive aspects of physical fitness work. *J. Phys. Educ.*, 66, 2:41-47.

A collection of activities, routines and tests for building fitness. In *Shaping up to quality*, New London, Conn.: Croft Educational Services, pp. 13-16.

Logic (basic assumptions) of the program for prevention of ischemic (including CHD) heart disease. *Proceedings, NCPEAM*, 71: 92-95.

What is physical education research? *J. Health, Phys. Educ. and Rec.*, 30:95-97.

Modern views of physical fitness — physical fitness for what? In *Symposium Canadien de la recreation*, June 10-16, 1967, pp. 272-76.

The trends and hope of the physical fitness laboratory work. *Ibid.*, pp. 277-80.

Physical fitness and dynamic health. *Ibid.*, pp. 281-83.

The training and seasoning of muscles, tendons and ligaments. *Ibid.*, pp. 286-98.

The essentials of a good physical fitness program, the relative effectiveness of various exercise programs. *Ibid.*, pp. 299-309.

With B. L. Rothermel, M. L. Pollock

AAHPER fitness test score changes resulting from an eight-week sport and physical fitness program. *Research Qt.*, 39, 4:1127-29.

With B. D. Franks

Effects of training on cardiac intervals. *Proceedings, NCPEAM*, 71:86-91.

Orthogonal factors of cardiac intervals and their response to stress. *Research Qt.*, 39, 4:524-32.

With V. A. Corrol

Variabilité des mesures d'aptitudes physiques dans différents groupes d'âge. *Biométrie Humaine* (Paris), 11:93-119.

With J. Boddie

Cureton of England, Wales and Virginia. *Hist. Southern Families*, 12:90-152.

FRANKS, DONALD, Assistant Professor

Articles

Effects of training on selected cardiovascular parameters. *Oregon AAHPER J.*, 2:13-15.

With T. K. Cureton

Orthogonal factors of cardiac intervals and their response to stress. *Research Qt.*, 39, 4:524-32.

Effects of training on cardiac intervals. *Proceedings, NCPEAM*, 71:86-91.

With E. B. Franks

Effects of physical training on the reduction of stuttering. *J. Speech and Hearing Res.*, 11:767-76.

JOHNSON, WILLIAM, Associate Professor

Book Edited

Physical education around the world. Monograph #2, Indianapolis, Indiana: Phi Epsilon Kappa Fraternity, 76 pp.

LÜSCHEN, GÜNTHER, Associate Professor

Books Edited

With O. Grupe, others

Einführung in die Theorie der Leibeserziehung. Hoffmann and Schorndorf, Stuttgart, Germany, 251 pp.

Articles

Soziologische Grundlagen von Leibeserziehung und Sport. In *Einführung in die Theorie der Leibeserziehung*, ed. by Grupe, Lüschen, others, Hoffmann and Schorndorf, Stuttgart, Germany, pp. 93-111.

Bulletins and Technical Reports

The sociology of sport. A trend report and bibliography. *Current Sociology*, 3, The Hague and Paris, p. 140.

POHNDORF, RICHARD H., Professor

Articles

Fitness comparison of British Rugby and University of Illinois football teams. *Proceedings, NCPEAM*, 71:121-30.

RAZOR, JACK E., Assistant Professor

Books

With W. C. Adams

Foundations of physical activity (rev. ed.). Stipes Pub. Co., Champaign, Ill., 180 pp.

Articles

The physical education major's club. *School Activities Mag.*, 49:14-17.

ROTHERMEL, BRADLEY L., Assistant Professor

Articles

With T. K. Cureton, Jr., M. L. Pollock

AAHPER fitness test score changes resulting from an eight-week sport and physical fitness program. *Research Qt.*, 39, 4:1127-29.

TREKELL, MARIANNA, Associate Professor

Articles

Walking on history in Israel. *Phys. Educator*, 25, 3:106-8.

WILLIAMS, BENJAMIN T., Research Assistant Professor

Articles

With L. B. Oscai, B. A. Hertig

Effect of exercise on blood volume. *J. Appl. Physiol.*, 24:622-24.

WADE, MICHAEL G., Instructor

Articles

With M. J. Ellis

Intertrial response strategy in operative time estimation. *Psychonomic Sci.*, 11, 6:203.

With M. J. Ellis, R. A. Schmidt

Proprioception variables as determinants of lapsed time estimation. *Ergonomics*, 11, 6:577-86.

ZEIGLER, EARLE F., Professor

Books

Problems in the history and philosophy of physical education and sport. Prentice-Hall, Englewood Cliffs, N.J., 150 pp.

With H. J. VanderZwaag

Physical education: progressivism or essential-

ism? Stipes Pub. Co., Champaign, Ill., 124 pp.

Articles

A riddle for tomorrow's world: how to lead a good life. *J. Canad. Assn. HHPER*, 34, 2:3-8.

The basic nature of physical education. *HPE Council Bull.*, 7, 2:6-10.

A tale of two titles. *JOHPER*, 39, 5:53.

The idea of physical education in modern times. *Australian J. Phys. Educ.*, 43, June-July, pp. 17-24.

Theoretical propositions for the administration of physical education and athletics. In *Academy papers*, No. 2, ed. by Miller, Amer. Acad. of PE, Tucson, Arizona, pp. 40-48.

The case method of instruction as applied to the preparation of athletic administrators and coaches. In *Proceedings, NCPEAM*, ed. by Mueller, pp. 143-52.

The employment of philosophical analysis to supplement administrative theory and research. *J. Educ. Admin.*, Australia, 6, 2: 132-51.

DOCTORAL DISSERTATIONS

Cooke, Bryan E. (H. S. Hoyman, R. C. Herron, Advisers), The relationship between balance and cognitive abilities of children aged eight to thirteen years.

Curtis, Bruce R. (L. J. Huelster, Adviser), Differences in self-concept and performance of a gross motor task.

Ellis, Michael J. (A. W. Hubbard, Adviser), Proprioceptive factors in operative time estimation.

Landry, Joseph F. (T. K. Cureton, Jr., Adviser), Adaptation of organic functions to continuous and intermittent exercise patterns in four male subjects.

Martens, Rainer (E. F. Zeigler, Adviser), The effects of an audience on learning and performance of a complex motor skill.

Munson, Karl F. (A. V. Sabora, Adviser), Opinions of providers and users about site quality for water-oriented recreation on eight small lakes in Arkansas.

Newman, Ian M. (W. H. Creswell, Jr., Adviser), The social dynamics of cigarette smoking in a junior high school.

Penny, William J. (E. F. Zeigler, Adviser), An analysis of the meanings attached to selected concepts in administrative theory.

Shuster, Arnold A. (A. V. Sabora, Adviser), The relationship between varying scores on the Minnesota Teacher Attitude Inventory and patterns of behavior both perceived and enacted in a recreation setting.

Slaughter, Mary H. (L. J. Huelster, Adviser), An analysis of the relationship between somatotype and personality profiles of college women.

Van Rossen, Donald P. (A. W. Hubbard, Adviser), The effects of diversions on repetitive swimming performance.

Wiley, Jack F. (T. K. Cureton, Jr., Adviser), Effects of training with and without wheat germ oil on cardiac intervals and other fitness measures of middle-aged men.

PHYSICAL EDUCATION FOR WOMEN

CHESKA, ALYCE T., Professor

Articles

Historical development of women's athletic/recreation associations. *Spotlight*, 3, 3:4-11.

Bulletins and Technical Reports

With others

School safety policies. Amer. Assn. for Health, Phys. Educ. and Rec., Wash., D.C., 32 pp.

PHYSICS

ABASHIAN, ALEXANDER, Professor

Articles

With R. J. Abrams, J. H. Smith, A. Wattenberg, others

An upper limit on the decay rate $KL^0 \rightarrow \pi^+\pi^-\gamma$. *Phys. Rev.*, 174:1674-80.

With R. J. Abrams, J. H. Smith, R. C. Thatcher, A. Wattenberg, others

The muon polarization in $K\mu s^0$ meson decay. *Ibid.*, 176:1603-15.

ABRAMS, GERALD S., Research Associate

Articles

With L. Eisenstein, T. A. O'Halloran, Jr., W. Shufeldt, J. Whitmore

K^+ elastic scattering in the backward direction at 2.76 BeV/c. *Phys. Rev. Letters*, 21:1407-9.

With R. G. Glasser, B. Kehoe, B. Sechi-Zorn, G. Wolsky

Final states with two or more strange particles from 4.25-BeV/c K^+ -p interactions. *Phys. Rev.*, 175:1697-1704.

ADLER, DONATELLA B., Research Assistant Professor

Articles

With F. T. Adler

Interpretation of the correlated analysis of fission, total, and capture cross section data. In *Neutron cross sections and technology*, NBS Special Pub. 299, Vol. II, pp. 967-74.

ADLER, FELIX T., Professor

Articles

With E. E. Lewis

A Boltzmann integral equation treatment of neutron resonance absorption in reactor lattices. *Nuclear Sci. and Eng.*, 31:117-26.

With D. B. Adler

Interpretation of the correlated analysis of fission, total, and capture cross section data. In *Neutron cross sections and technology*, NBS Special Pub. 299, Vol. II, pp. 967-74.

Bulletins and Technical Reports

Effects of reactivity excursions on coated fuel particles. Los Alamos Sci. Lab. LA 3547, UC-80 Reactor Technology, TID-4500, 52 pp.

Reviews

The education of a physicist, ed. by S. C. Brown and N. Clarke. *Nuclear Applications*, 3:519-20.

ALLEN, JAMES S., Professor

Articles

With A. W. Parker, R. L. Yerke, V. G. Stotland

$^{160}(\alpha, 2\alpha)^{12}C_{g.s.}$ reaction mechanisms near 25 MeV. *Phys. Rev.*, 174:1093-1104.

ANDERSON, ANSEL C., Associate Professor

Articles

Obtaining ultra low temperature. In *Cryogenic engineering*, p. 74.

- Electrical feedthrough for use at low temperatures. *Rev. Sci. Instr.*, 39: 605-6.
- Cerous magnesium nitrate thermometry and the measurements on Fermi liquids. *Phys. Rev. Letters*, 20:1474.
- Purification of He³. *Cryogenics*, 8:50.
- Measurements of demagnetizing factors and their application to magnetic thermometry. *J. Appl. Phys.*, 39:5878.
- With M. Suomi, B. Holmstrom
Heat transfer below 0.2°K. *Physica*, 38: 67-80.
- With R. E. Peterson, J. E. Robichaux
Thermal and electrical conductivity of Ag and Pt below 1°K. *Phys. Rev. Letters*, 20:459-61.
- With B. Holmstrom, M. Krusius
Calorimetric investigation of rare earth metals. *Ibid.*, p. 154.
- With M. Kuchnir, J. C. Wheatley
Experimental ion mobilities in liquid He³ below 1°K. *Phys. Rev.*, 168:261-70.
- ASCOLI, GIULIO, Professor
- Articles
With J. C. Park, G. Chandler, E. L. Goldwasser, S. Kim, T. P. Wangler
Generalized deck effect and K** (1300) production in $K^- + p \rightarrow K + \pi^+ + \pi^- + p$ at 5.5 BeV/c. *Phys. Rev. Letters*, 20:171-74.
- With S. Kim, J. C. Park, G. Chandler, E. L. Goldwasser
K $\pi\pi$ system in the reaction $K^-p \rightarrow K^-\pi^+\pi^-p$ at 4.1 and 5.5 BeV/c. *Bull. Am. Phys. Soc.*, 1:114.
- With P. F. Schultz, E. L. Goldwasser, U. E. Kruse, J. Loos
Production of Ω^- hyperons in K-p interactions at 5.5 GeV/c. *Phys. Rev.*, 168:1509-15.
- With H. B. Crawley, D. W. Mortara, B. I. Eisenstein, U. E. Kruse, others
Study of A_2^- in $\pi^-p \rightarrow \pi^-\rho^0$ at 5 BeV/c. *Phys. Rev. Letters*, 20:1321-24.
- With H. B. Crawley, U. Kruse, D. W. Mortara, E. Schafer, others
Mass spectrum for $\pi^-\pi^-\pi^+$ produced in π^-p at 5 BeV/c. *Ibid.*, 21:113-16.
- With H. B. Crawley, D. W. Mortara, A. Shapiro
Spin-parity analysis of the B meson. *Ibid.*, 20:1411-14.
- Four-pion decay of the f⁰ meson. *Phys. Rev. Letters*, 21:1712-15.
- With M. Firebaugh, E. L. Goldwasser, R. D. Sard, J. Wray
Strange-particle production in 8-BeV/c proton-proton interactions. *Phys. Rev.*, 172: 1354-69.
- BARDEEN, JOHN, Professor
- Articles
Theory of superconductivity. In *Superconductivity in science and technology*, ed. by M. H. Cohen, Univ. Chicago Press, pp. 1-17.
- BARTLETT, J. H., Professor Emeritus
- Articles
Motion under a periodic cubic force. *Kgl. Danske Videnskab Selskab, Mat-Fys. Medd.*, 36:1-23.
- BAYM, GORDON, Professor
- Articles
With C. Ebner
Fermi liquid transport coefficients of dilute solutions of He³ in He⁴. *Phys. Rev.*, 170: 346-50.
- With W. F. Saam
Phonon-quasiparticle interactions in dilute solutions of He³ in superfluid He⁴. II. Phonon Boltzmann equation and first viscosity. *Ibid.*, 171:172-78.
- With W. F. Saam, C. Ebner
Phonon-quasiparticle interactions in dilute solutions of He³ in superfluid He⁴. III. Attenuation of first sound above 0.2°K. *Ibid.*, 173:306-13.
- BELLENI-MORANTE, ALDO, NATO Fellow
— Research Associate
- Articles
Un problema di convezione forzata e di conduzione del calore con sorgenti dipendenti dalla temperatura. *Ann. Mat. Pura. ed Appl.*, 4, 78:69-90.
- On the principle of gyroscopic effect for self-excited rigid bodies. *Meccanica*, 3:106-10.
- BOHAN, T. L., Research Associate
- Articles
With H. J. Stapleton
Combined He-3 cryostat and pulsed ESR spectrometer. *Rev. Sci. Instr.*, 39:1707-9.
- BOHMER, H., Research Assistant Professor
See Coordinated Science Laboratory.
- BROWN, FREDERICK C., Professor
- Books
Physics of solids. Ionic crystals, lattice vibrations and imperfections. W. A. Benjamin, Inc., N.Y., 450 pp.
- Articles
With R. C. Brandt
Infrared absorption and vibronic structure due to localized polarons in the silver halides. In *Localized excitations in solids*, Plenum Pub. Corp., pp. 322-29.
- With R. Z. Bachrach
Exciton structure of TlCl and TlBr. *Phys. Rev. Letters*, 21:685-88.
- BRUSSEL, M. K. Professor
- Articles
With R. A. Hoffswell, T. M. Noweir, S. I. Warshaw
Li⁷(He³, He³)Li⁷ and Li⁷(He³, t)Be⁷ reactions for E(He³) = 25.2 MeV. *Bull. Am. Phys. Soc.*, 1:83.
- With J. B. Barengoltz, J. H. Buffa, S. I. Warshaw
Elastic scattering of He³ from C¹². *Ibid.*, p. 117.
- With D. E. Rundquist, A. I. Yavin
He³ scattering from nickel and zirconium isotopes. *Phys. Rev.*, 168:1287-95.
- (He³, α) reactions from nickel and zirconium isotopes. *Ibid.*, pp. 1296-1311.
- BURTON, J. J., Research Associate
- Articles
With G. Jura
The configuration and energy of defects on the (100) surface of a molecular crystal. In *Fundamentals of gas-surface interactions*, ed. by H. Saltsburg, J. N. Smith and M. Rogers, Academic Press, N.Y., p. 75.
- Fermi momentum of aluminum from 0 to 100 u bars. *Phys. Rev.*, 171:699.
- CAHN, J. H., Associate Professor
See Electrical Engineering.

CLEARY, ROBERT M., Research Associate

Articles

Scattering of single-particle excitations by a vortex in a clean type-II superconductor. *Phys. Rev.*, 175:587.

COMPTON, W. DALE, Professor of Physics and Director of the Coordinated Science Laboratory

See Coordinated Science Laboratory.

CRAWLEY, H. B., Research Associate

Articles

With G. Ascoli, D. W. Mortara,

B. I. Eisenstein, U. E. Kruse, others

Study of A_2^- in $\pi^-p \rightarrow \pi^-p\eta^0$ at 5 BeV/c. *Phys. Rev. Letters*, 20:1321-24.

With G. Ascoli, D. W. Mortara, A. Shapiro

Spin-parity analysis of the B meson. *Ibid.*, pp. 1411-14.

With G. Ascoli, U. Kruse, D. W. Mortara, others

Mass spectrum for $\pi^-\pi^+\pi^+$ produced in π^-p at 5 BeV/c. *Ibid.*, 21:113-16.

With G. Ascoli, D. W. Mortara, A. Shapiro

Four-pion decay of the f^0 meson. *Ibid.*, pp. 1712-15.

DAVIS, L. CRAIG, Research Associate

Articles

With C. B. Duke

Interaction of tunneling electrons with collective modes of the electrodes. *Solid State Communications*, 6:193-97.

With F. Steirrisser, C. Duke

Electron and phonon tunneling spectroscopy in metal-germanium contacts. *Phys. Rev.*, 176:912.

DEBRUNNER, P. G., Associate Professor

Articles

With M. Atac, B. Chrisman, H. Frauenfelder

A test of time-reversal invariance using the Mössbauer transmission of the 74 keV transition in Ir^{193} . *Phys. Rev. Letters*, 20:691-94.

With R. Cooke, I. C. Gunsalus,

H. Frauenfelder, others

Mössbauer studies on Putidaredoxin. *Proc. Natl. Acad. Sci.*, 59:1045-52.

With R. Cooke

Mössbauer studies of the iron atom in cytochrome c. *J. Chem. Phys.*, 48:4532-37.

DEEGAN, R. A., Research Assistant

Professor

Articles

On the structure of the transition metals. *J. Physics C. (Proc. Phys. Soc. London)*, [2] 1:763.

Structure dependence of d bands in transition metals. *Phys. Rev.*, 171:659-64.

De PASQUALI, G., Research Assistant

Professor

Articles

With J. A. Moyzis, H. G. Drickamer

The effect of pressure on f number and isomer shift for Fe^{57} in Cu, V, and Ti. *Phys. Rev.*, 172:665-70.

DY, K. S., Research Associate

Articles

With C. J. Pethick

Transport coefficients of a normal Fermi

liquid at finite temperatures. *Phys. Rev. Letters*, 21:876-78.

EISENSTEIN, B. I., Assistant Professor

Articles

With U. E. Kruse, G. Ascoli, H. B. Crawley, D. W. Mortara, others

Study of A_2^- in $\pi^-p \rightarrow \pi^-p\eta^0$ at 5 BeV/c. *Phys. Rev. Letters*, 20:1321-24.

With M. Ioffredo, W. Johnson, J. Kim, others

The 3π mass spectrum in the reaction $\pi^-p \rightarrow p\pi^+\pi^-\pi^-$ at 13 and 20 GeV/c. *Ibid.*, 21:1212.

FLYNN, COLIN P., Professor

Articles

Atomic migration in monatomic crystals. *Phys. Rev.*, 171:682-98.

With G. W. Stupian

Rare earth impurities in liquid aluminum. *Phil. Mag.*, 17:295-326.

With J. A. Blodgett

Transition from bound to virtual 4f impurity levels in metals. *Phys. Rev. Letters*, 21:800-02.

FOSDICK, L. D., Professor of Physics, and of Computer Science

See Computer Science.

FRAUENFELDER, HANS, Professor

Articles

With M. Atac, B. Chrisman, P. Debrunner

A test of time-reversal invariance using the Mössbauer transmission of the 74 keV transition in Ir^{193} . *Phys. Rev. Letters*, 20:691-94.

With R. Cooke, P. G. Debrunner,

I. C. Gunsalus, others

Mössbauer studies on Putidaredoxin. *Proc. Natl. Acad. Sci.*, 59:1045-52.

GILMAN, J. J., Professor

Articles

With A. P. Gerk

Growth of tungsten carbide monocrystals. *J. Appl. Phys.*, 39:4497-4500.

GINSBERG, DONALD M., Professor

Articles

With J. E. Smith, Jr.

Thermal conductivity of superconducting tin films in a magnetic field. *Phys. Rev.*, 167:345-60.

With A. E. Jacobs

An experimental test of the theory of the proximity effect in superconductors. *Ibid.*, 175:569-75.

GOLDWASSER, EDWIN L., Professor

Articles

With J. C. Park, G. Ascoli, S. Kim, others

Generalized deck effect and K^{*+} (1300) production in $K^- + p \rightarrow K^+ + \pi^+ + \pi^- + p$ at 5.5 BeV/c. *Phys. Rev. Letters*, 20:171-74.

With S. Kim, G. Chandler, J. C. Park,

G. Ascoli

$K\pi\pi$ system in the reaction $K^-p \rightarrow K^-\pi^+\pi^-p$ at 4.1 and 5.5 BeV/c. *Bull. Am. Phys. Soc.*, 1:114.

With P. F. Schultz, E. L. Ascoli, U. E. Kruse, J. Loos

Production of Ω^- hyperons in K^-p interactions at 5.5 GeV/c. *Phys. Rev.*, 168:1509-15.

With M. Firebaugh, G. Ascoli, R. D. Sard,
J. Wray

Strange-particle production in 8-BeV/c proton-proton interactions. *Ibid.*, 172:1354-69.

With J. S. Loos, U. E. Kruse

Reactions $K^-p \rightarrow \Sigma^+ \pi^-$ at 4.07 and 5.47 GeV/c. *Ibid.*, 173:1330-38.

GRANATO, A. V., Professor

Articles

Internal friction studies of dislocation dynamics. In *Dislocation dynamics*, ed. by Rosenfield, McGraw-Hill Book Co., N.Y., pp. 117-57.

With K. Lucke, L. J. Teutonico

Thermally assisted unpinning of a dislocation double loop. *J. Appl. Phys.*, 39:5181-91.

With J. F. Thomas, Jr., T. Suzuki

Second and third order elastic constants of alkali metals. *Phys. Rev.*, 175:766-81.

HANDLER, PAUL, Professor

Articles

With D. E. Aspnes, D. F. Blossey

Interband dielectric properties of solids in an electric field. *Phys. Rev.*, 166:921-33.

With Y. Hamakawa, F. A. Germano

Interband electro-optical properties of germanium, I. electroabsorption. *Ibid.*, 167: pp. 703-9.

Interband electro-optical properties of germanium, II. electroreflectance. *Ibid.*, pp. 709-16.

Reviews

Physics and chemistry of II-VI compounds, by M. S. Aven and J. S. Prener. *Science*, 159:185.

HERMANSON, J. C., Research Associate

Articles

Kinematic resonances in crystalline xenon. *Phys. Rev.*, 166:893-905.

HENDRY, ARCHIBALD W., Research Assistant Professor

Articles

With D. Faiman

Harmonic oscillator model for baryons. *Phys. Rev.*, 173:1720-29.

HOLLOWAY, L. E., Assistant Professor

Articles

With B. D. Dieterle, others

Experimental determination of the ΣN parity using a polarized target. *Phys. Rev.*, 167:1190.

With D. Weldon, others

Measurement of the Σ^- polarization in the reaction $\pi^- p \rightarrow \Sigma^- K^+$. *Ibid.*, p. 1199.

With J. F. Arens, others

Measurement of polarization in $\pi^- p$ elastic scattering from 229 to 390 MeV. *Ibid.*, p. 1261.

HOLZAPFEL, W. B., Research Associate

Articles

Magneto-elektrische effekte in elektrolyt-Lösungen. *J. Phys. Chem.*, 59:166.

With H. G. Drickamer

Effect of pressure on the volume of the high-pressure (VII) phase of H_2O and D_2O . *Ibid.*, 48:4798-4800.

HU, C. R., Research Associate

Articles

With R. A. Ferrell, V. Korenman

He_3 for pure superconductors at $T = 0$. *Bull. Am. Phys. Soc.*, 13:109.

HULD, B., Research Associate

Articles

Radiative corrections to symmetric pair production. *Phys. Rev.*, 168:1782-94.

Approximations for calculating radiative corrections. *Ibid.*, 169:1115-20.

ICHIMARU, SETSUO, Associate Professor

Articles

Possibility of second sound in turbulent plasma. *Phys. Rev.*, 165:251-52.

Kinetic-theoretical approach to the fluctuations in weakly turbulent plasmas. *Phys. Letters*, 27A:40-51.

Kinetic equations for turbulent plasmas. I. Quasilinear theory. *Phys. Rev.*, 174: 289-300.

Kinetic equations for turbulent plasmas. II. Fluctuation spectrum. *Ibid.*, pp. 300-09.

With T. Nakano

Theory of a turbulent stationary state of a plasma. *Ibid.*, 165:231-50.

IKUSHIMA, A., Research Assistant Professor

Articles

With T. Kaneda

Effect of impurity atoms on the frictional force on a high speed dislocation in Cu. *Scripta Met.*, 2:89.

Overdamped resonance of a dislocation in metals and alloys. Proc. intl. conf. on strength of metals and alloys. *Trans. Japan Inst. Metals*, 9: Suppl. 38.

With T. Mitsuaki, T. Odaka

Superconductivity in Nb and Nb-rich Nb-Ta alloys. *Phys. Letters*, 26A:582.

IOFFREDO, MICHAEL L., Research Associate

Articles

With B. I. Eisenstein, W. Johnson, J. Kim, others

The 3π mass spectrum in the reaction $\pi^- p \rightarrow p\pi^+\pi^-\pi^-$ at 13 and 20 GeV/c. *Phys. Rev. Letters*, 21:1212.

With H. R. Crouch, Jr.

Study of the total neutron cross section in $\pi^- p$ interactions in the momentum region 1.4-4.0 GeV/c. *Ibid.*, p. 845.

Angular distributions of pion charge-exchange reactions in the momentum region of 1.4 to 4.0 GeV/c. *Ibid.*, p. 849.

JACKSON, E. A., Associate Professor

Books

Equilibrium statistical mechanics. Prentice-Hall, Englewood Cliffs, N.J., 241 pp.

Articles

With J. R. Pasta, J. F. Walters

Thermal conductivity of one-dimensional lattices. *J. Computational Phys.*, 2, 3: 207-27.

JAMES, P. B., Research Associate

Articles

Sum-rule constraints on Baryon Regge trajectories. *Phys. Rev.*, 172:1602-6.

JONES, LORELLA MARGARET

Articles

With S. Frautschi

Conspiracy relations in vector meson production. *Phys. Rev.*, 167:1335.

With H. Shepard

Analyticity and the daughter structure of conspiring regge-pole families. *Ibid.*, 175:2117.

KADANOFF, LEO P., Professor

Articles

Wave function fluctuations in finite superconductors. *Comments on Solid State Physics*, 1:5.

Transport coefficients near the λ -transition in helium. *Ann. Phys.*, 50:312.

With J. Swift

Transport coefficients near the critical point: A master-equation approach. *Phys. Rev.*, 165:310-22.

Transport coefficients near the liquid-gas critical point. *Ibid.*, 166:89-101.

With G. Laramore

Anomalous electrical conductivity above the superconducting transition. *Ibid.*, 175:579-84.

KAWASAKI, K., Visiting Associate Professor

Articles

Anomalous spin relaxation near the magnetic transition. *Progr. Theor. Phys.*, 39:285.

Dynamics of critical fluctuations, I. *Ibid.*, 39:1133.

Dynamics of critical fluctuations, II. *Ibid.*, 40:11.

Dynamics of critical fluctuations, III. *Ibid.*, p. 706.

Dynamics of critical fluctuations, IV. *Ibid.*, p. 930.

With T. Yamada

Time-dependent Ising model with long range interaction. *Ibid.*, 39:1.

With T. Tsuzuki

Dynamical critical phenomena in superconductors. *Phys. Letters*, 28A:29.

Dynamical critical phenomena in liquid helium. *Ibid.*, p. 30.

KLEIN, M. V., Associate Professor

Articles

Theoretical models. In *Localized excitations in solids*, ed. by R. F. Wallis, Plenum Pub. Corp., N.Y., pp. 71-84.

Localized modes and resonance states in alkali halides. In *Physics of color centers*, ed. by W. B. Fowler, Academic Press, N.Y., pp. 729-32.

With H. F. MacDonald

In band absorption of monovalent impurities in sodium. In *Localized excitations in solids*, ed. by R. F. Wallis, Plenum Pub. Corp., N.Y., pp. 46-53.

Far infrared absorption induced by isotopes in NaCl and LiF. *Phys. Rev. Letters*, 20:1031-34.

With S. O. Kennedy, T. I. Gie, B. Wedding

The hydroxyl ion in alkali halide crystals. I. Crystal growth and characterization. *Mat. Res. Bull.*, 3:677-86.

KOEHLER, JAMES S., Professor

Articles

With Y. N. Lwin, M. Doyama

Stage III annealing study of electron-irradi-

ated pure aluminum. *Phys. Rev.*, 165:787-99.

With K.-H. C. Lie

The elastic stress field produced by a point force in a cubic crystal. *Advances in Physics*, 17:421-77.

With C. Lee

Stage III annealing in gold after electron irradiation. *Phys. Rev.*, 176:813-26.

KOTZ, U., Research Associate

Articles

Photoproduction of π^0 in the backward direction. *Phys. Rev. Letters*, 20:230.

With P. Heide, R. A. Lewis, P. Schmuser, H. J. Skronn, H. Wahl

Measurements of single π^- and π^+ photoproduction at small momentum transfers. *Ibid.*, 21:248.

KRUGER, P. GERALD, Professor

Articles

With J. N. Snyder, W. B. Sampson

Progress in superconducting beam handling and accelerator structures since November 1966. *J. Appl. Phys.*, 39:2633.

KRUSE, U. E., Professor

Articles

With P. F. Schultz, G. Ascoli, E. L. Goldwasser, J. Loos

Production of Ω^- hyperons in K-p interactions at 5.5 GeV/c. *Phys. Rev.*, 168:1509-15.

With G. Ascoli, H. B. Crawley, D. W. Mortara, B. I. Eisenstein, others

Study of Λ_2^- in $\pi^-p \rightarrow \pi^-p\eta^0$ at 5 BeV/c. *Phys. Rev. Letters*, 20:1321-24.

With G. Ascoli, H. B. Crawley, D. W. Mortara, others

Mass spectrum for $\pi^-\pi^+\pi^+$ produced in π^-p at 5 BeV/c. *Ibid.*, 21:113-16.

With J. S. Loos, E. L. Goldwasser

Reactions $K^-p \rightarrow \Sigma^+\pi^-$ at 4.07 and 5.47 GeV/c. *Phys. Rev.*, 173:1330-38.

With J. Bartsch

$\Xi^-\Omega^-$ and antibaryon production in 10.6 eV/c K-p interactions. *Nuclear Phys.*, B4:326.

Observation and analysis of the 1660 MeV 3π resonance " A_3 " in 8 GeV/c π^+p interactions. *Ibid.*, B7:345.

Analysis of the $K^*(1320)$ and L meson produced in 10 GeV/c K-p interaction. *Ibid.*, B8:9.

With M. Aderholz

$K^*(890)$ production in 10 GeV/c K-p interactions and comparison with absorption and Regge pole models. *Ibid.*, 5B:567.

Total and differential cross sections in 10 GeV/c K-p interactions. *Ibid.*, B7:111.

With K. Boesbeck

Resonance production in 8 GeV/c π^+ interactions in hydrogen. *Ibid.*, B4:501.

LAZARUS, DAVID, Professor

Articles

With R. R. Bourassa, D. A. Blackburn

Effect of high pressure on the thermoelectric power and electrical resistance of aluminum and gold. *Phys. Rev.*, 165:853-64.

Reviews

Physics: matter, energy and the universe, by G. P. Harnwell, and G. J. F. Legge. *Am. J. Physics*, 36:281-82.

LOOS, J. S., Research Associate

Articles

With P. F. Schultz, G. Ascoli, E. L. Goldwasser, U. E. Kruse

Production of Ω^- hyperons in K^-p interactions at 5.5 GeV/c. *Phys. Rev.*, 168:1509-15.

With U. E. Kruse, E. L. Goldwasser

Reactions $K^-p \rightarrow \Sigma^\pm \pi^\mp$ at 4.07 and 5.47 GeV/c. *Ibid.*, 173:1330-38.

MacDONALD, H. F., Research Associate

Articles

With M. V. Klein

Far-infrared absorption induced by isotopes in NaCl and LiF. *Phys. Rev. Letters*, 20: 1031-34.

MAPOTHER, DILLON E., Professor

Articles

With E. P. Harris

Critical field of superconducting aluminum as a function of pressure and temperature above 0.3°K. *Phys. Rev.*, 165:522-32.

MARTIN, THOMAS P., Research Associate

Articles

Infrared absorption induced by a charge defect in an ionic crystal. *Phys. Rev.*, 170: 779-83.

MASSEY, WALTER E., Assistant Professor

Articles

With C.-W. Woo

Theory of solid He³. I: A comparative study of liquid and solid He³. *Phys. Rev.*, 169:241-46.

MIYAKE, SATORU J., Research Assistant Professor

Articles

Cyclotron resonance of piezoelectric polarons in the quantum limit. *Phys. Rev.*, 170: 726-32.

MOCHEL, JACK M., Assistant Professor

Articles

With M. Archibald, L. Weaver

Size dependence of the thermal conductivity of helium I near the λ point. *Phys. Rev. Letters*, 21:1156-58.

MORTARA, D. W., Research Assistant Professor

Articles

With G. Ascoli, H. B. Crawley, B. I. Eisenstein, U. E. Kruse, others

Study of A_2^- in $\pi^-p \rightarrow \pi^-p\eta^0$ at 5 BeV/c. *Phys. Rev. Letters*, 20:1321-24.

With G. Ascoli, H. B. Crawley, U. E. Kruse, others

Mass spectrum for $\pi^-\pi^-\pi^+$ produced in π^-p at 5 BeV/c. *Phys. Rev. Letters*, 21: 113-16.

With G. Ascoli, H. B. Crawley, A. Shapiro

Spin-parity analysis of the B meson. *Phys. Rev. Letters*, 20:1411-14.

Four-pion decay of the f^0 meson. *Phys. Rev. Letters*, 21:1712-15.

O'HALLORAN, THOMAS A., JR., Associate Professor

Articles

With G. S. Abrams, L. Eisenstein, W. Shufeldt, J. S. Whitmore

K^p elastic scattering in the backward direc-

tion at 2.76 BeV/c. *Phys. Rev. Letters*, 21:1407-9.

With Cambridge Bubble Chamber Group

Multipion photoproduction at energies up to 6 BeV. *Phys. Rev.*, 169:1081.

PARK, J. C., Research Associate

Articles

With S. Kim, G. Chandler, G. Ascoli,

E. L. Goldwasser, T. P. Wangler

Generalized deck effect and $K^{*+}(1300)$ production in $K^-+p \rightarrow K^-+\pi^++\pi^-+p$ at 5.5 BeV/c. *Phys. Rev. Letters*, 20:171-74.

With S. Kim

Spin-parity analysis of low-mass (1.1-1.4 BeV) $K^*\pi$ system in $K^-p \rightarrow K^*\pi^+p$ at 5.5 BeV/c. *Phys. Rev.*, 174:2165-67.

PARKER, A. W., Research Associate

Articles

With J. S. Allen, R. L. Yerke, V. G. Stotland

¹⁶⁰($\alpha,2\alpha$)¹²C_{g.s.} reaction mechanisms near 25 MeV. *Phys. Rev.*, 174:1093-1104.

PASTA, JOHN R., Professor

See Computer Science.

PASTERNAK, M. P., Research Associate

Articles

With T. Sonnino

Studies of IBr, ICl and I₂ Cl₆ crystal properties by means of the Mössbauer effect in I¹²⁹. I. Chemical Bonds. *J. Chem. Phys.*, 48:1997.

Studies of IBr, ICl and I₂ Cl₆ crystal properties by means of the Mössbauer effect in I¹²⁹. II. Lattice Dynamics. *Ibid.*, p. 2004.

Mössbauer effect studies in I¹²⁹ CN molecular crystal. *Ibid.*, p. 2009.

With H. DeWard

Internal field in iodine impurities in ferromagnetic spinel CuCr₂Te₄. *Phys. Letters*, 18:298.

PETHICK, CHRISTOPHER J., Research

Assistant Professor

Articles

Finite temperature corrections to the transport coefficients of a normal Fermi liquid. *Phys. Letters*, 27A:219-20.

With K. S. Dy

Transport coefficients of a normal Fermi liquid at finite temperatures. *Phys. Rev. Letters*, 21:876-78.

PINES, DAVID

Books

With P. Nozieres

Theory of quantum liquids. Publishing House MIR, Moscow, 382 pp. (Russian translation of book published by W. A. Benjamin, Inc., N.Y. in 1967.)

Articles

With J. C. Wheatley

Dilute solutions of He³ in He⁴ at low temperatures. In *Proceedings of the 10th international conference on low temperature physics — I*, Publishing House Viniti, Moscow, USSR, pp. 55-58. 1967.

RADOSEVICH, LEE G., Research Associate

Articles

With C. T. Walker

Comparison of phonon-active and infrared-active lattice resonances for U centers in

- alkali halides. In *Localized excitations in solids*, Plenum Pub. Corp., N.Y.
- Experimental and theoretical study of the scattering of phonons by U centers in alkali halide crystals. *Phys. Rev.*, 171: 1004-23.
- RAETHER, MANFRED**, Professor
See Coordinated Science Laboratory.
- RAVENHALL, DAVID G.**, Professor
Articles
With others
Electron scattering studies of calcium and titanium isotopes. *Phys. Rev.*, 174:1380-99.
With H. W. Wyld, Jr.
Diffraction dissociation and the reggeized absorption model. *Phys. Rev. Letters*, 21: 1770-72.
- SAH, CHIH-TANG**, Professor
See Electrical Engineering.
- SALAMON, MYRON B.**, Assistant Professor
Articles
With F. J. Feigl
Paramagnetic resonance in dilute chromium-iron alloys. *J. Phys. Chem. Solids*, 29: 1443-47.
- SARD, R.D.**, Professor
Articles
With M. Firebaugh, G. Ascoli, E. L. Goldwasser, J. Wray
Strange-particle production in 8 BeV/c proton-proton interactions. *Phys. Rev.*, 172: 1354-69.
- SCHLESSINGER, LEONARD**, Research Associate
Articles
Use of analyticity in the calculation of non-relativistic scattering amplitudes. *Phys. Rev.*, 167:1411-23.
Calculation of some three-body scattering amplitudes. *Ibid.*, 171:1523-27.
With W. J. Pardee, J. Wright
Currents as coordinates in nonrelativistic quantum mechanics. *Phys. Rev. Letters*, 21:2140-47.
- SCHMID, D.**, Research Associate
Articles
With V. Zimmermann
The influence of light on the ESR of F centers. *Phys. Letters*, 27A:459-60.
- SIMMONS, RALPH O.**, Professor
Articles
With D. L. Losee
Equilibrium vacancy concentration measurements on solid krypton. *Phys. Rev.*, 172: 934-43.
Thermal-expansion measurements and thermodynamics of solid krypton. *Phys. Rev.*, 172:944-57.
With D. N. Batchelder, D. L. Losee
Isotope effects in the lattice constant and thermal expansion of ^{20}Ne and ^{22}Ne single crystals. *Phys. Rev.*, 173:873-80.
- SLICHTER, CHARLES P.**, Professor
Articles
With C. H. Henry
Moments and degeneracy in optical spectra. In *Physics of color centers*, ed. by W. B. Fowler, Academic Press, N.Y., pp. 351-428.
- SMITH, JAMES H.**, Professor
Articles
With A. Abashian, R. J. Abrams, D. W. Carpenter, B. M. K. Nefkens, others
An upper limit on the decay rate $\text{KL}^0 \rightarrow \pi^+ \pi^- \gamma$. *Phys. Rev.*, 174:1674-80.
Muon polarization in $\text{K}_{\mu 3}^0$ meson decay. *Ibid.*, 176:1603.
- SNOW, JOEL A.**, Research Associate
Articles
High frequency sound absorption in superconductors. *Phys. Rev.*, 172:455-66.
- SNYDER, JAMES N.**, Professor of Physics and Research Professor Computer Science
See Computer Science.
- STACK, JOHN D.**, Assistant Professor
Articles
Conspiracy relations for unequal-mass processes. *Phys. Rev.*, 171:1666-67.
Equal-mass conspiracy relations as the limit of the unequal-mass case. *Ibid.*, 173: 1644-50.
- STAPLETON, HARVEY J.**, Associate Professor
Articles
With T. L. Bohan
Combined He-3 cryostat and pulsed ESR spectrometer. *Rev. Sci. Instr.*, 39:1707-9.
With B. A. Young
Modified Orbach relaxation process in $\text{La}(\text{Cl}, \text{Br})_3$ matrix. *Phys. Rev.*, 176:502-9.
- STONEHAM, A. M.**, Visiting Associate Professor
Articles
The shapes of inhomogeneously broadened resonance lines: Second order effects. *J. Phys. C*, 1, 2:565-74.
With W. Hayes, P. H. S. Smith, J. P. Stott
Hyperfine interactions of F-centers in alkaline earth fluorides. *Proc. Roy. Soc. (London)*, A306, 369-87.
With B. Henderson, R. D. King
The temperature dependence of the F-band in MgO. *J. Phys. C*, 1, 2:586-93.
With M. Lannoo
The optical absorption of the neutral vacancy in diamond. *J. Phys. Chem. Sol.*, 24: 1987-2000.
With R. H. Bartram, P. Gash
Ion-sized effects in colour centers. *Phys. Rev.*, 176:1014-24.
- SULLIVAN, J. D.**, Assistant Professor
Articles
With R. L. Sugar
Daughter Regge trajectories in the Van Hove model. *Phys. Rev.*, 166:1515.
With R. Blankenbecler, R. L. Sugar
Feynman diagram models of Regge-pole conspiracies. *Ibid.*, 172:1451.
- SUZUKI, TETSURO**, Research Assistant Professor
Articles
With A. V. Granato, J. F. Thomas, Jr.
Second and third order elastic constants of alkali metals. *Phys. Rev.*, 175:766-81.

SWENBERG, C. E., Research Associate

Articles

With W. T. Stacy

Bimolecular radiationless transitions in crystalline tetracene. *Chem. Phys. Letters*, 2: 327.

TREFIL, J. S., Assistant Professor

Articles

Anomalous nuclear photoproduction of the φ meson. *Phys. Rev.*, 173:1629.

With E. Kujawski, D. Sachs

Spin effects in the scattering of protons from light nuclei and a possible test for the existence of Regge cuts. *Phys. Rev. Letters*, 21:518.

With S. Pinsky

Regge cuts, the Wu-Yang hypothesis, and the composite nature of elementary particles. *Phys. Letters*, 27B:518.

WATTENBERG, ALBERT, Professor

Articles

With A. Abashian, R. J. Abrams, J. H. Smith, others

An upper limit on the decay rate $K_L^0 \rightarrow \pi^+\pi^-\gamma$. *Phys. Rev.*, 174:1674-80.

Muon polarization in $K_{\mu 3}^0$ meson decay. *Ibid.*, 176:1603-15.

WILLIAMS, WENDELL S., Associate

Professor

Articles

Field ion microscopy of graphite. *J. Appl. Phys.*, 39:2131-32.

Stress-velocity relation for dislocations in TiC. In *Anisotropy in single crystal refractory compounds*, ed. by F. W. Vahldiek and S. A. Mersol, Plenum Pub. Corp., N.Y., pp. 391.

WORTIS, MICHAEL

Articles

With D. Jasnow

High temperature critical indices for the classical anisotropic Heisenberg model. *Phys. Rev.*, 176:739-50.

WRIGHT, J. A., Assistant Professor

With L. Schlessinger, W. J. Pardee

Currents as coordinates in nonrelativistic quantum mechanics. *Phys. Rev. Letters*, 21:2140-47.

WYLD, HENRY W., Professor

Articles

With D. G. Ravenhall

Diffraction dissociation and the reggeized absorption model. *Phys. Rev. Letters*, 21: 1770-72.

YAVIN, AVIVI I., Associate Professor

Articles

With D. E. Rundquist, M. K. Brussel

He^3 scattering from nickel and zirconium isotopes. *Phys. Rev.*, 168:1287-95.

(He^3, α) reactions from nickel and zirconium isotopes. *Ibid.*, pp. 1296-1311.

With R. A. Hoffswell, D. Jamnik, T. M. Noweir

Experimental study of the (He^3, dp) reaction. *Phys. Rev. Letters*, 19:754-56.

YOON, D. N., Research Associate

Articles

With A. Bienenstock

Pressure dependence of the β -brass order-

disorder critical temperature. *Phys. Rev.*, 170:631-38.

Temperature and composition dependence of β -brass elastic constants and phase equilibrium in the Cu-Zn system. *J. Appl. Phys.*, 39:356-58.

DOCTORAL DISSERTATIONS

Blecher, Marvin (A. O. Hanson, Adviser), Photoproduction of π^0 mesons from He^3 with 340 MeV bremsstrahlung.

Blodgett, Jerry A. (C. P. Flynn, Adviser), Rare earth impurities in metals: the transition from virtual to bound f levels.

Boguta, John J. (H. W. Wyld, Adviser), Application of the relativistic Schrödinger equation to the bootstrap problem.

Bohan, Thomas L. (H. J. Stapleton, Adviser), Spin-lattice relaxation of trivalent praseodymium, terbium, and erbium in anhydrous lanthanum trichloride: temperature and magnetic field dependence.

Borders, James A. (F. C. Brown, Adviser), Polaron transport in ionic crystals.

Carlson, Jon R. (C. B. Satterthwaite, Adviser), Thermal conductivity of superconducting niobium.

Chau, Cheuk-Kin (M. V. Klein, Adviser), Phonon scattering from substitutional impurities and lattice defects in silver chloride.

Cohen, Joel A. (H. G. Drickamer, Adviser), High pressure Mössbauer studies of magnetic interactions in palladium-cobalt alloys.

Cooke, Arthur R. (H. Frauenfelder, Adviser), Mössbauer studies of putidaredoxin.

Grether, Donald F. (R. D. Sard, Adviser), The reaction $pp \rightarrow pp \pi^+\pi^-$ at 7.9 BeV/c.

Holder, Jon T. (A. V. Granato, Adviser), Thermodynamic properties of crystals containing imperfections.

Hosken, Robert W. (M. Raether, Adviser), Experimental investigation of nonlinear interactions of drift waves.

Jacobs, Allan E. (D. M. Ginsberg, Adviser), Proximity effect in superconductors: experimental and theoretical determination of the transition temperature.

King, Lawrence G. (H. W. Wyld, Jr., Adviser), An equation for meson states in the quark model and its application to a meson bootstrap.

Kugler, Alfred A. (J. Bardeen, Adviser), Calculations of equilibrium anharmonic properties in bravais lattices with application to the Wigner electron solid.

Lee, Choochon (J. S. Koehler, Adviser), Stage III annealing in gold after electron irradiation.

Loos, James S. (U. E. Kruse, Adviser), The reactions $K^-\rho \rightarrow \Sigma^+\pi^+$, $\Sigma^+\pi^+\pi^-$, and $\Sigma^+\pi^- K^+K^-$ at 4.1 GeV/c and 5.5 GeV/c.

McNatt, Jerrold L. (P. Handler, Adviser), Optical absorption associated with grain boundaries in N-type germanium.

Mock, Willis, Jr. (D. Lazarus, Adviser), The thermomigration of Au^{195} and Sb^{125} in gold and Ni^{59} in nickel.

Moore, Glenn E., Jr. (M. V. Klein, Adviser), Phonon scattering from substitutional impurities and lattice defects in cadmium sulfide.

Moyzis, Joseph A., Jr. (H. G. Drickamer, Adviser), High pressure Mössbauer studies on iron and its dilute alloys.

Nasrallah, Nasrallah F. (R. L. Schult, Adviser), Some results of the algebra of currents in

weak interactions. Part I: The decays $K^0 \rightarrow 2\pi$ and $K \rightarrow 2\pi\gamma$. Part II. Relation between vector and axial-vector Cabibbo angles in broken $SU(3)$ symmetry.

Rosenbaum, Ralph L. (M. V. Klein, Adviser), Thermal conductivity of alkali halide crystals containing the hydroxide ion.

Saam, William F. (L. P. Kadanoff, Adviser), Phonon-quasiparticle interactions in dilute solutions of He^3 in superfluid He^4 .

Sharma, Ram K. (J. S. Koehler, Adviser), The production and annealing of point defects produced by quenching and by tensile deformation in pure gold and silver.

Stenberg, Charles G. (L. J. Koester, Jr., Adviser), Differential cross sections for the reaction $He^4(\gamma, p)H^3$ from 55 to 165 MeV.

Stotland, Victor G. (J. S. Allen, Adviser), Direct-sequential order-of-emission interference effect.

Swift, Jack B. (L. P. Kadanoff, Adviser), Topics in fluid phase transition.

Thatcher, Roy C. (A. Wattenberg, Adviser), An upper limit on the decay rate of $KL^0 \rightarrow \pi^+\pi^-\gamma$.

Thomas, Joseph F., Jr. (A. V. Granato, Adviser), The third order elastic constants of aluminum.

Verhey, Lynn J. (J. H. Smith, Adviser), Measurement of the strong interaction form factor and the charge asymmetry in the decay $KL^0 \rightarrow \pi^+e^-\nu(\bar{\nu})$.

Wagner, Curtis A. (J. H. Bartlett, Adviser), The stability of motion in a periodic cubic force field.

PHYSIOLOGY AND BIOPHYSICS

ADES, HARLOW W., Professor
See Electrical Engineering.

ANDERSON, JOHN D., Professor

Articles

With D. M. Miller, B. C. Abbott
Potentials and ionic exchange in slime mold plasmodia. *Comp. Biochem. Physiol.*, 27, 3:633-46.

ASHBY, WILLIAM R., Professor
See Electrical Engineering.

BUETOW, DENNIS E., Associate Professor

Books Edited

The biology of *Euglena*, vol. I. Academic Press, N.Y., 361 pp.

The biology of *Euglena*, vol. II. *Ibid.*, 417 pp.

Articles

Morphology and ultrastructure of *Euglena*. In *The biology of Euglena*, vol. I, ed. by Buetow, Academic Press, N.Y., pp. 109-84.
Euglena—cells for biological investigation. *Ibid.*, II, pp. 383-92.

With K. E. Schmit

Guanine metabolism in carbon-limited *Euglena gracilis*. *J. Protozoology*, 15:195-98.

Sucrose density gradient analysis of *Euglena gracilis* RNA isolated with Macaloid. *Biochim. Biophys. Acta*, 166:702-4.

With J. E. Hurley

Tritiated leucine incorporation into normal and regenerating *Euglena gracilis*. *Life Sciences*, 7:943-50.

DUNN, FLOYD, Professor

See Electrical Engineering.

GORSKI, JACK, Professor

Articles

With J. R. Reel

Gonadotrophic regulation of precursor incorporation into ovarian RNA, protein, and acid-soluble fractions—II. Changes in nucleotide labeling, nuclear RNA synthesis, and effects of RNA and protein synthesis inhibitors. *Endocrinology*, pp. 1083-91.

Gonadotrophic regulation of precursor incorporation into ovarian RNA, protein, and acid-soluble fractions—I. Effects of pregnant mare serum gonadotrophin (PMSG), follicle stimulating hormone (FSH), and luteinizing hormone (LH). *Ibid.*, pp. 1092-1100.

With D. Smith

Estrogen control of uterine glucose metabolism: an analysis based on the transport and phosphorylation of 2-deoxyglucose. *J. Biol. Chem.*, 243:4169-74.

With D. Toft, G. Shyamala, D. Smith, A. Notides

Hormone receptors: Studies on the interaction of estrogens with the uterus. *Rec. Progress in Horm. Res.*, 24:45-80.

GOVINDJEE, Associate Professor

See Botany.

HEATH, JAMES E., Associate Professor

Articles

Insect temperature regulation. In *McGraw-Hill yearbook of science and technology*. McGraw-Hill Book Co., N.Y., pp. 221-22.

The origins of thermoregulation. In *Evolution and environment: a symposium presented on the occasion of the one-hundredth anniversary at the foundation of the Peabody Museum of Natural History at Yale University*, ed. by E. T. Drake, Yale Univ. Press, New Haven, Conn., pp. 259-78.

Thermal synchronization of emergence in periodical "17-year" cicadas (Homoptera, Cicadadae, *Magicicada*). *Amer. Midland Nat.*, 80:440-48.

Temperature regulation in insects. In *Symposium on temperature regulation of Ectotherms*, ed. by D. Wilhoft, Bull. N.J. Acad. Sci., 13:33-84.

With R. G. Northcutt, E. Gasdorf

The effect of hypothalamic thermal stimulation on blood pressure in the turtle. *Comp. Biochem. Physiol.*, 26:509-18.

HERTIG, BRUCE A., Associate Professor

See Mechanical and Industrial Engineering.

JOHNSON, ROBERT E., Professor

Articles

Doctors afield. Frederick Schwatka—cavalry officer, explorer, physician. *New England J. Med.*, 278:3-7.

With R. D. Galvin, J. A. Harris

Urinary excretion of beta-hydroxybutyrate and acetoacetate during experimental ketosis. *Qt. J. Exp. Physiol.*, 53:181-93.

KIRK, EDWARD S., Assistant Professor

Articles

With H. F. Downey

Coronary lymph: Specific activities in inter-

stitial fluid during uptake of ^{42}K . *Amer. J. Physiol.*, 215, 5:1177-82.

LARSEN, JOSEPH R., JR., Professor
See Entomology.

MATSUMOTO, YORIMI, Assistant Professor
Articles

Normalization of shortening in *Rana pipiens* sartorius muscle. *J. Theoret. Biol.*, 18: 387-95.

With B. C. Abbott

Folding muscle fibers of the *Golfingia gouldii*. *Comp. Biochem. Physiol.*, 26:927-36.

NALBANDOV, ANDREW V., Professor
See Animal Science.

PROSSER, C. LADD, Professor and Head of the Department

Articles

With M. Papisova, T. Nagai

Two-component slow waves in smooth muscle of cat stomach. *Amer. J. Physiol.*, 214: 695-702.

With A. Bortoff

Electrical activity of intestinal muscle under *in vitro* conditions. In *Handbook of physiology—alimentary canal*, Amer. Physiological Society, Bethesda, Md., pp. 2025-50.

With T. Nagai

Effects of low temperature on conditioning in goldfish. In *The central nervous system and fish behavior*, ed. by David Ingle, Univ. Chicago Press, pp. 171-80.

STEGGERDA, FREDERICK R., Professor
Articles

Gastrointestinal gas following food consumption. In *Annals of the New York Academy of Sciences*, 150, 1:57-66.

With J. Szurszewski

The effect of hypoxia on the electrical slow wave of the canine small intestine. In *The American journal of digestive diseases*, new series, Hoebner Med. Div. of Harper and Row, Pubs., 13, 2:168-77.

The effect of hypoxia on the mechanical activity of the canine small intestine. *Ibid.*, pp. 178-85.

With E. A. Richards, A. Murata

Relationship of bean substrates and certain intestinal bacteria to gas production in the dog. *Gastroenterology*, 55, 4:502-9.

SWEENEY, DARYL C., Assistant Professor
See Zoology.

SYBESMA, CHRISTIAAN, Associate Professor

Articles

With E. Rabinowitch

Photosynthesis. In *Photobiology*, Penguin Science Survey, ed. by Anthony Allison, Penguin Books, Harmondsworth, Middlesex, England, pp. 39-58.

With C. F. Fowler

Evidence for the two light-driven reactions in the purple photosynthetic bacterium *Rhodospirillum rubrum*. *Proc. Natl. Acad. Sci., U.S.A.*, 61:1343-48.

TAYLOR, AUBREY B., Professor

Articles

With R. J. Buschmann

Extraction of absorbed lipid (linoleic acid-1-

^{14}C) from rat intestinal epithelium during processing for electron microscopy. *J. Cell Biol.*, 38:252-55.

VON FOERSTER, HEINZ, Professor
See Electrical Engineering.

WILLIS, JOHN S., Associate Professor

Articles

Ouabain inhibition of ion transport and respiration in renal cortical slices of ground squirrels and hamsters. *Biochim. Biophys. Acta*, 163:506-15.

The interaction of K^+ , ouabain and Na^+ on the cation transport and respiration of renal cortical cells of hamsters and ground squirrels. *Ibid.*, pp. 516-30.

Cold resistance of kidney cells of mammalian hibernators: cation transport vs. respiration. *Amer. J. Physiol.*, 214, 4:923-28.

DOCTORAL DISSERTATIONS

Downey, Harry F. (E. S. Kirk, F. Dunn, Advisers), Exchange of potassium between blood and tissue in the canine myocardium.

Hoekman, Theodore B. (B. C. Abbott, Adviser), A comparative study of mechanical characteristics and heat production of the anterior and posterior latissimus dorsi muscles of chicken.

Job, Donald D. (C. L. Prosser, Adviser), Origin and mechanism of intestinal slow waves.

Johnson, Becky B. (R. E. Johnson, Adviser), Sweating after repeated intradermal injections or iontophoresis of pilocarpine or acetyl- β -methylcholine.

LaGrange, Ronald G. (F. R. Steggerda, Adviser), Characterization of urinary bladder smooth muscle: I. pressure-volume, tension-length relationships II. mechano-electrical properties III. autonomic regulation.

Munday, John C., Jr. (Govindjee, Adviser), The fluorescence transient of *Chlorella pyrenoidosa*.

Papageorgiou, George (Govindjee, Adviser), Fluorescence induction in *Chlorella pyrenoidosa* and *Anacystis nidulans* and its relation to photophosphorylation.

Redenbo, James M. (B. C. Abbott, Adviser), The effects of ultraviolet radiation on the electrical and permeative properties of the toad urinary bladder.

Seager, Brent C. (R. E. Johnson, Adviser), Body composition in early starvation as measured by a pneumatic body volumeter and whole-body potassium-40.

Uzgiris, Vytautas (J. Gorski, Adviser), The effects of extended incubation on some metabolic parameters and steroid synthesis in rabbit ovarian tissue.

Williams, Judith O. (C. R. Woese, Adviser), Interactions between aminoacyl-tRNA synthetases and transfer RNAs from *Escherichia coli*.

PLANT PATHOLOGY

BLACK, LINDSAY M., Professor
See Botany.

BRITTON, MICHAEL P., Associate Professor
Articles

With M. J. Healy

Infection and development of Helminthosporium sorokinianum in *Agrostis palustris*. *Phytopathology*, 58:273-76.

With A. J. Ullstrup

An unusual epiphytotic of common corn smut in Indiana and Illinois. *Plt. Dis. Repr.*, 52:922-23.

CARTER, J. CEDRIC, Professor**Articles**

Arboricultural failures and successes in disease control. *Proc. Midwestern Shade Tree Conf.*, 23:50-53.

CHAMBERLAIN, DONALD W., Assistant Professor**Articles****With R. L. Bernard**

Resistance to brown stem rot in soybeans. *Crop Sci.*, 8:728-29.

With J. D. Paxton

Protection of soybean plants by phytoalexin. *Phytopathology*, 58:1349-50.

EDWARDS, DALE I., Assistant Professor**Articles****With D. P. Taylor, R. B. Malek**

The soybean cyst nematode spreads through southern Illinois. *Ill. Res.* 10, 4:12-13.

With E. J. Wehunt

Radopholus similis and other nematode species on banana. In *Tropical nematology*, ed. by Smart and Perry, Univ. Florida Press, Gainesville, pp. 1-19.

GERDEMANN, JAMES W., Professor**Articles**

Vesicular-arbuscular mycorrhiza and plant growth. *Ann. Rev. Phytopathol.*, 6:397-418.

With T. H. Nicolson

Mycorrhizal *Endogone* species. *Mycologia*, 60: 313-25.

GOTTLIEB, DAVID, Professor**Articles**

Antibiotics and cell metabolism. *Hindustan Antibiotics* 10:123-34.

With F. M. Huber

The mechanism of action of griseofulvin. *Canadian J. Microbiology*, 14:111-18.

With E. B. Shirling

Cooperative description of type cultures of *Streptomyces*. II. Species descriptions from the first study. *Intnl. J. Sys. Bacteriol.*, 18:69-189.

With E. Schlösser

The effect of sterols on the metabolism of *Pythium* species. *Archiv für Mikrobiologie*, 61:246-53.

With H. P. Molitoris, J. L. Van Etten

Changes in fungi with age. III. Incorporation of amino acids into cells of *Rhizoctonia solani* and *S. bataticola*. *Archiv für Mikrobiologie* 61:394-98.

With R. K. Tripathi

The physiology of swelling phase of spore germination in *Penicillium atrovirens*. *Mycologia*. 60:571-90.

With G. Nicolas

Changes in fungi with age. IV. Role of coenzymes in respiratory decreases in *Rhizoctonia solani* and *Sclerotium bataticola*. *J. Gerontology*, 23:544-50.

With M. V. Rao, P. D. Shaw

Changes in ribonucleic acid during the germination of teliospores of *Ustilago maydis*. *Phytopathology*, 58:1593-97.

HOOVER, ARTHUR L., Professor**Articles****With S. M. Lim., J. D. Paxton**

Phytoalexin production in corn resistant to *Helminthosporium turcicum*. *Phytopathology*, 58:720-21.

With K. M. Saxena

On the structure of a gene for disease resistance in maize. *Proc. Natl. Acad. Sci.*, 61, 4:1300-05.

With D. R. Wilkinson

Genetics of reaction to *Puccinia sorghi* in ten corn inbred lines from Africa and Europe. *Phytopathology*, 58:605-8.

LIM, SUNG M., Research Associate**Articles****With A. L. Hooker, J. D. Paxton**

Phytoalexin production in corn resistant to *Helminthosporium turcicum*. *Phytopathology*, 58:720-21.

LINN, MANSON B., Professor**Articles****With A. J. Latham**

A comparison of soil column and petri dish techniques for the evaluation of soil fungitoxicants. *Phytopathology*, 58:460-63.

With O. N. Nesheim

The fungitoxicity of thiram, captan and Chemagro 2635 in relation to organic matter and clay content of soil. *Trans. Ill. State Acad. Sci.*, 61:26-30.

MALEK, RICHARD B., Assistant Professor**Articles**

The dagger nematode, *Xiphinema americanum*, associated with decline of shelterbelt trees in South Dakota. *Plt. Dis. Repr.*, 52: 795-98.

With D. P. Taylor, D. I. Edwards

The soybean cyst nematode spreads through southern Illinois. *Ill. Res.*, 10, 4:12-13.

Bulletins and Technical Reports**With G. Thorne**

Nematodes of the northern great plains. Part I. Tylenchida (Nemata:Secernentea). *S. Dak. Agr. Exp. Sta., Tech. Bull.* 31, 111 pp.

PAXTON, JACK D., Assistant Professor**Articles****With D. W. Chamberlain**

Protection of soybean plants by phytoalexin. *Phytopathology*, 58:1349-50.

With S. M. Lim, A. L. Hooker

Phytoalexin production in corn resistant to *Helminthosporium turcicum*. *Phytopathology*, 58:720-21.

POWELL, DWIGHT, Professor**Articles**

The fireblight disease on apple and pear in Illinois. Report of the International Conference on Fireblight. European and Mediterranean Plant Protection (EPPO) Pub., Series A, No. 45-E, pp. 15-16.

New developments in fruit disease control for 1968. *Trans. Ill. State Hort. Soc.*, 101: 101-3.

What's new in fire blight control in apple and pear? *Amer. Fruit Grower*, 88, 2:36-38.

With H. S. Gill

The effect of different carbon and nitrogen sources upon the growth of races A-1, A-2, A-3, and A-4 of *Phytophthora fragariae*

- Hickman, *Mycopathologia et Mycologia Applicata*, 34:234-40.
- The use of polyacrylamide gel disc electrophoresis in delimiting three species of *Phytophthora*. *Phytopathologische Zeitschrift*, 63:23-29.
- Polyacrylamide gel (disc) electrophoresis of physiologic races A-1 to A-8 of *Phytophthora fragariae*. *Phytopathology*, 58:722-23.
- With H. S. Gill, M. N. Khare
The use of polyacrylamide gel electrophoresis in the identification of *Xanthomonas fragariae* Kennedy and King. *Trans. Ill. State Acad. Sci.*, 61:177-81.
- With J. H. Smith
A disc electrophoresis comparison of protein patterns of *Erwinia amylovora* with other bacteria, including associated yellow forms. *Phytopathology*, 58:972-75.
- SAXENA, KRISHAN M. S., Research Associate
- Articles
With A. L. Hooker
On the structure of a gene for disease resistance in maize. *Proc. Natl. Acad. Sci.*, 61, 4:1300-05.
- SHAW, PAUL D., Associate Professor
- Articles
With D. Gottlieb, M. V. Rao
Changes in ribonucleic acid during the germination of teliospores of *Ustilago maydis*. *Phytopathology*, 58:1593-97.
- SINCLAIR, JAMES B., Professor
- Books Edited
Fungicide-nematocide tests, results for 1967 (Vol. 23). Amer. Phytopathological Soc., St. Paul, Minn., 148 pp.
- Articles
Eradication of citrus canker from Louisiana. *Plt. Dis. Repr.*, 52:667-70.
- With D. E. Borum
Evidence for systemic protection against *Rhizoctonia solani* with Vitavax in cotton seedlings. *Phytopathology*, 58:976-80.
- With I. E. A. Darrag
Techniques to evaluate chemotherapeutic activity of certain fungicides against *Rhizoctonia solani* in cotton seedlings. *Plt. Dis. Repr.*, 52:399-403.
- TAYLOR, DONALD P., Associate Professor
- Articles
With M. Goodrich, H. C. Hechler
Mononchoides changi n. sp. and *M. bollingeri* n. sp. (Nematoda:Diplogasterinae), from a waste treatment plant. *Nematologica*, 14, 1:25-36.
- With J. K. Pillai
Butlerius micans n. sp. (Nematoda:Diplogasterinae) from Illinois with observations on its feeding habits and a key to the species of *Butlerius* Goodey, 1929. *Nematologica*, 14, 1:89-93.
- Biology of *Paroigolaimella bernensis* and *Fictor anchicoprofaga* (Diplogasterinae) in laboratory cultures. *Ibid.*, 2:159-70.
- Emendation of the genus *Demaniella* Steiner, 1914 (Nematoda:Diplogasterinae), with observations on the biology of *D. basili* n. sp. *Ibid.*, pp. 285-94.
- With D. I. Edwards, R. B. Malek
The soybean cyst nematode spreads through southern Illinois. *Ill. Res.*, 10, 4:12-13.
- THORNBERRY, HALBERT H., Professor
- Articles
Corn red kernel streak disease. *Ill. Res.*, 10, 3:5.
- With Mary Ruth Thompson
Maize dwarf mosaic virus: location of virus particles in situ in infected corn and Johnsongrass leaves. *Phytopathologische Zeitschrift*, 63:224-31.
- With Mary Ruth Thompson, Ruthanne Miller
Alkaloid production in healthy and Ampelamus-virus infected periwinkle, *Vinca rosea* L. *Trans. Ill. State Acad. Sci.*, 61:201-2.
- With Mary Ruth Thompson, Keramat Izadpanah, Perla H. Canares
Orchid virus: causality of cattleya infectious blossom necrosis. *Phytopathologische Zeitschrift*, 62:305-10.
- With Laxmikant Joshi
Effect of magnesium trisilicate on the infectivity of tobacco mosaic virus. *Virology* 35, 1:169-70.
- TRIPATHI, RAM K., Research Associate
- Articles
With D. Gottlieb
The physiology of swelling phase of spore germination in *Penicillium atrovenetum*. *Mycologia*, 60:571-90.
- DOCTORAL DISSERTATIONS
Hughes, Geoffrey R. (A. L. Hooker, Adviser), Gene action conditioning quantitative resistance to northern leaf blight in four Australian corn inbred lines.
- Scott, Donald H. (W. M. Bever, Adviser), Effect of barley yellow dwarf virus infection on the development of root rot caused by *Cochliobolus sativus* in *Avena sativa* and *Triticum durum*.
- Tripathi, Ram K. (D. Gottlieb, Adviser), Mechanism of action of the antifungal antibiotic pyrrolnitrin.
- Van Dyke, Cecil G. (A. L. Hooker, Adviser), Ultrastructure of host and parasite in compatible and incompatible interactions of *Zea mays* L. with *Puccinia sorghi* Schw.
- POLITICAL SCIENCE
- BERDAHL, CLARENCE A., Professor
Emeritus
- Books
With C. M. Eichelberger, L. B. Sohn, others
The United Nations and human rights (18th report of the commission to study the organization of peace). Oceana Pubs., Dobbs Ferry, N.Y., 239 pp.
- Reviews
The new American commonwealth by Louis Heren. *Ann. Amer. Acad. Pol. and Soc. Sci.*, 379:160-61.
- COHEN, STEPHEN P., Assistant Professor
- Articles
Issue, role, and personality: the Kitchener-Curzon dispute. *Comparative Studies in Society and History*, 10, April, pp. 337-55.
- FISHER, GLENN W., Professor
See Government and Public Affairs.

GLAD, BETTY, Associate Professor

Articles

The role of psychoanalytic biography in political science. *APSA paper*.

Reviews

The Korean decision (June 24-30, 1950) by Glenn Paige. *J. Amer. History*, Dec., pp. 686-87.

GOVE, SAMUEL K., Professor

See Government and Public Affairs.

LEWIS, EDWARD G., Professor

Books Edited

With H. M. Macdonald, W. D. Webb,

W. L. Strauss

Readings in American government (5th ed.). Thomas Y. Crowell, N.Y., 690 pp.

LONG, NORTON E., Professor

Articles

Planning for social change. *Planning 1968*, pp. 67-79.

The administrative process. *Intnl. Encyc. Soc. Sci.*, pp. 68-73.

MONYPENNY, PHILLIP, Head

and Professor

Articles

The student as a student. *Denver Law Rev.*, 45, 4:649-62.

MERRITT, RICHARD L., Associate Professor

Books Edited

With D. J. Puchala

Western European perspectives on international affairs: public opinion studies and evaluations. Frederick A. Praeger, N.Y., 552 pp.

Articles

The USIA surveys: tools for policy and analysis. In *Western European perspectives on international affairs: public opinion studies and evaluations*, ed. by Richard L. Merritt and Donald J. Puchala, Frederick A. Praeger, N.Y., pp. 3-30.

A transformed crisis: the Berlin wall. In *Major European governments: case studies in policy-making*, ed. by Roy C. Macridis, Prentice-Hall, Englewood Cliffs, N.J., pp. 140-73.

Political division and municipal services in postwar Berlin. In *Public policy, XVII*, ed. by John D. Montgomery and Albert O. Hirschman, Harvard Univ. Press, Cambridge, Mass., pp. 165-98.

Computer-Forschung in der amerikanischen politischen Wissenschaft. In *Politische vierteljahresschrift*, 8, 4:560-84.

NAGEL, STUART S., Professor

Articles

The tipped scales of American justice. In *Critical issues in the study of crime*, ed. by Dinitz and Reckless, Little, Brown and Co., Boston, pp. 241-44.

The poor, also want law and order. *Chicago Daily Law Bull.*, 114, 83:10.

Reviews

The logic of choice: an investigation of the concepts of role and rationality, by Gidon Gottlieb. *Amer. Pol. Sci. Rev.*, 62, 4: 1308-9.

Movies, censorship, and the law, by Ira Carmen. *Midwest J. Pol. Sci.*, 12, 1:153-55.

Criminal lawyer, by Arthur Wood. *Amer. Sociol. Rev.*, 33, 3:486-87.

PELTASON, JACK W., Professor of Political Science and Chancellor, University at Urbana-Champaign

Articles

Judicial process: introduction. In *International encyclopedia of the social sciences*, Vol. 8, pp. 283-91.

SCOTT, ROBERT E., Professor

Articles

Student political activism in Latin America. *Daedalus*, 97, 1:70-98.

Reviews

Government and politics in Latin America, a reader, ed. by Peter G. Snow. *Hispan. Amer. Hist. Rev.*, May, p. 311.

La democracia en Mexico (2nd ed.), by Pablo Gonzalez Casanova. *Ibid.*, Aug., pp. 511-13.

The dynamics of Mexican nationalism, by Frederick C. Turner. *Amer. Pol. Sci. Rev.*, 62, 4:1386.

SNIDER, CLYDE F., Professor

Bulletins and Technical Reports

With R. Andersen

Local taxing units: the Illinois experience. *Inst. Govt. and Public Affairs, Univ. Ill., Urbana*, 64 pp.

THOMPSON, VICTOR A., Professor

Articles

The organizational dimension. *Wilson Lib. Bull.*, 42, 7:693.

How scientific management thwarts innovation. *Transaction*, 3, 7:51.

YU, GEORGE T., Associate Professor

Articles

Dragon in the bush: Peking's presence in Africa. *Asian Survey*, 3, 12:1018-26.

Reviews

Chinese society under communism: a reader, ed. by William T. Liu. *Social Forces*, 46, 4:579.

Bulletins and Technical Reports

The present and future role of China in the Asian-Pacific area, c. 1980. *The balance of power in the Asian-Pacific area, 1980*. The Washington Center for Foreign Policy Research, Wash., D.C., 29 pp.

DOCTORAL DISSERTATIONS

Coombs, Fred S. (P. Monypenny, Advsier), Children and legal authority: a study of role-learning.

Fraser, John G. (P. Monypenny, Adviser), Psychology and the explanation of political behavior.

Jones, Mack H. (M. Davis, Adviser), The development of the political role of the United Nations secretary-general: 1945-1967.

Krauter, Joseph F. (M. Davis, Adviser), Civil liberties and the Canadian minorities.

Manwaring, Max G. (E. G. Lewis, Adviser), The military in Brazilian politics.

Park, Yung H. (E. G. Lewis, Adviser), The electoral reform laws of 1962: a case study of the Japanese policy-making process.

Porter, Laurellen (C. B. Hagan, Adviser), Foreign trade policy and area redevelopment, 1955-56: a case study.

PRESIDENT'S OFFICE

HENRY, DAVID D., President

Articles

- Education for relevance. *Graduate Comment*, Detroit, Michigan, 11, 2:59-65.
- Concern for consensus. In *On speech and speakers*, ed. by Stewart and Kendall, Holt, Rinehart and Winston, N.Y., pp. 197-204.

PSYCHOLOGY

ADAMS, JACK A., Professor

Articles

- Response feedback and learning. *Psychological Bulletin*, 70:486-504.

ADES, HARLOW, Professor

See Electrical Engineering.

ANDERSON, RICHARD C., Professor

See Education.

BECKER, WESLEY C., Professor

See Education.

BIJOU, SIDNEY W., Professor

Articles

- Experimental analysis of left-right concepts in retarded children. In *International review of research in mental retardation* (Vol. 3). Academic Press, N.Y., pp. 65-96.
- The mentally retarded child. *Psychology Today*, 2, 1:47-52.
- Ages, stages, and the naturalization of human development. *American Psychologist*, 23: 419-27.
- Behavior modification in the mentally retarded: Application of operant conditioning principles. *Pediatric Clinics of North America*, 968, 15, 4:968.
- Research in the academic education of the retarded. In *Expanding concepts of mental retardation*, ed. by G. A. Jervis, Charles C. Thomas, Springfield, Ill., pp. 143-49.
- With Margaret K. Johnston, H. N. Sloane
- Successive modification of aggressive behaviour and aggressive fantasy play by management of contingencies. *Journal of Child Psychology and Psychiatry*, 8:217-26. 1967.

With R. F. Peterson, Marian Ault

A method to integrate descriptive and experimental field studies at the level of data and empirical concepts. *Journal of Applied Behavior Analysis*, 2:175-91.

BOGARTZ, RICHARD S., Associate Professor

Articles

- A least squares method for fitting intercepting line segments to a set of data points. *Psychological Bulletin*, 70:749-55.
- Short-term memory in binary prediction by children: Some stochastic information processing models. In *The psychology of learning and motivation*, ed. by J. Spence and G. Bower, Academic Press; *Psychometrika*, 33:405-22.
- With C. C. Clifton
- Selective attention during dichotic listening by preschool children. *Journal of Experimental Child Psychology*, 6:483-91.

CATTELL, RAYMOND B., Professor

Books

With J. H. Butcher

The prediction of achievement and creativity.

Bobbs-Merrill Co., Indianapolis, Ind., 386 pp.

Articles

- Taxonomic principles for locating and using types (and the derived taxonomic computer program). In *Formal representation of human judgment*, ed. by B. Kleinmuntz, Pittsburgh Univ. Press, Pennsylvania, pp. 99-148.
- Some practical implications of the theory of fluid and crystallized general ability. In *Readings in psychological tests and measurements*, ed. by Barnette, W. Leslie, Jr., Dorsey Press, Homewood, Ill., pp. 144-50.
- Trait-view theory of perturbations in ratings and self ratings (L(BR)-and Q-Data): Its application to obtaining pure trait score estimates in questionnaires. *Psychological Review*, 75:2:96-113.
- Progress in clinical psychology through multivariate experimental designs. *Multivariate Behavioral Research*, Special Issue, pp. 4-8.
- La teoria dell'intelligenza fluida e cristallizzata sua relazione con i tests "culture fair," e sua verifica in bambini dai 9 ai 12 anni. *Bollettino di Psicologia Applicata*, 88-89-90:1-22.
- With H. W. Eber, K. H. Delhees
- A large sample cross validation of the personality trait structure of the 16 P. F. with some clinical implications. *Multivariate Behavioral Research*, Special Issue, pp. 107-32.
- With B. D. Gibbons
- Personality factor structure of the combined Guilford and Cattell personality questionnaires. *Journal of Personality and Social Psychology*, 9:107-20.
- With J. H. Hundley
- Conceptual and experimental requirements in relating independence (U.I. 19) and field independence in L- and Q-Data media: a comment on Dr. Ohnmacht's research. *Perceptual and Motor Skills*, 27:733-34.
- With E. Komlos, D. F. Tatro
- Significant differences of affective, paranoid, and non-paranoid schizophrenic psychotics on primary source traits in the 16 P. F. *Multivariate Behavioral Research*, Special Issue, pp. 33-54.
- With J. R. Nesselroade
- Note on analyzing personality relations in married couples. *Psychological Reports*, 22: 381-82.
- With K. Rickels
- The relationship of clinical symptoms and IPAT-factored tests of anxiety, regression, and asthenia: a factor analytic study. *The Journal of Nervous and Mental Disease*, 146:147-60.
- With F. L. Damarin, Jr.
- Personality factors in early childhood and their relation to intelligence. *Monograph of the Society for Research in Child Development*, 33, 6:1-95.
- CLORE, GERALD L., Assistant Professor
- Articles**
- With B. Baldrige
- Interpersonal attraction: the role of agreement and topic interest. *Journal of Personality and Social Psychology*, 9, 4:340-46.
- COHEN, JOZEF, Associate Professor
- Reviews**
- Color science, by G. Wyszecki and W. S. Stiles. *American Journal of Psychology*, 81: 128-29.

COSTIN, FRANK, Professor

Articles

Dogmatism and the retention of psychological misconceptions. *Educational and Psychological Measurement*, 28, 2:529-34.

A seminar in the teaching of psychology. *Improving College and University Teaching*, 16, 1:48-49.

A graduate course in the teaching of psychology: Description and evaluation. *Journal of Teacher Education*, 19, 4:425-32.

DAVIS, JAMES H., Associate Professor

Articles

With R. Hoppe, J. P. Hornseth

Risk-taking: Task response patterns and grouping. *Organizational Behavior and Human Performance*, 3:124-42.

With M. Carey, P. Foxman, D. Tarr

Experimenter presence, verbalization and problem solving. *Journal of Personality and Social Psychology*, 3:299-302.

With A. Vine

Group problem solving, task divisibility and prior social organization. *Proceedings, 76th annual convention American Psychological Association*, pp. 411-12.

DELHEES, KARL H., Research Assistant Professor

Articles

Conflict measurement by the dynamic calculus model, and its applicability in clinical practice. *Multivariate Behavioral Research*, Special Issue, pp. 73-96.

With R. B. Cattell, H. W. Eber

A large sample cross validation of the personality trait structure of the 16 P. F. with some clinical implications. *Ibid.*, pp. 107-32.

DONCHIN, EMANUEL, Associate Professor

Articles

Evoked potentials and uncertainty resolution. *Psychonomic Science*, 12:103.

Reviews

Games neurons play. Review of *Frontiers in physiological psychology*, by Russel. *Contemporary Psychology*, 13:597-98.

DULANY, DON E., Professor

Articles

Awareness, rules, and propositional control: a confrontation with S—R behavior theory. In *Verbal behavior and general behavior theory*, ed. by T. Dixon, D. Horton, Prentice-Hall, Englewood Cliffs, N.J., pp. 341-87.

ERIKSEN, CHARLES W., Professor

Articles

Unconscious perception. In *International encyclopedia of the social sciences*, Vol. 2, ed. by D. L. Sills, The Macmillan Co. and The Free Press, N.Y., pp. 575-81.

With Jan Pierce

Defense mechanisms. In *Handbook of personality theory and research*, ed. by E. F. Borgatta and W. W. Lambert, Rand McNally and Co., Chicago, pp. 1007-40.

With T. S. Greenspan

Binocular summation over time in the perception of form at brief durations. *Journal of Experimental Psychology*, 76:331-36.

Interocular non-independence. *Perceptual Psychophysics*, 3:93-96.

With J. F. Collins

Sensory traces versus the psychological mo-

ment in the temporal organization of form. *Journal of American Experimental Psychology*, 77:376-82.

With D. L. Schurman, J. Rohrbaugh

Masking phenomena and time intensity reciprocity for form. *Ibid.*, 78:310-17.

With T. J. Spencer

Visual search under conditions of very rapid sequential input rates. *Perceptual Psychophysics*, 4:197-202.

FIEDLER, FRED E., Professor

Articles

Personality and situational determinants of leadership effectiveness. In *Group dynamics: research and theory*, ed. by Cartwright and Zander, Harper and Row, N.Y., pp. 362-80.

The effect of culture training on leadership, organizational performance, and adjustment. *Naval Research Reviews*, 21:7-13.

With S. M. Nealey

The leadership functions of middle managers. *Psychological Bulletin*, 70:313-29.

FISHBEIN, MARTIN, Associate Professor

Books

Readings in attitude theory and measurement. New York: John Wiley and Sons, N.Y., 499 pp. 1967.

Articles

A consideration of beliefs, and their role in attitude measurement. In *Readings in attitude theory and measurement*, ed. by M. Fishbein, John Wiley and Sons, N.Y., pp. 257-66. 1967.

A behavior theory approach to the relations between beliefs about an object and the attitude toward the object. *Ibid.*, pp. 389-400.

Attitude and the prediction of behavior. *Ibid.*, pp. 477-92.

With H. C. Triandis, Ellie Hall, A. V. Shanmugam, Y. Tanaka

Affect and behavioral intentions. In *Modern trends in psychology*, papers in honor of Professor Kuppuswamy. Manaktala & Sons, Bombay. 1967.

GRAEN, GEORGE B., Assistant Professor of Psychology and Industrial Relations

Articles

Testing traditional and two-factor hypotheses concerning job satisfaction. *Journal of Applied Psychology*, 52, 5:366-71.

With Rene V. Dawis, D. J. Weiss

Need type and job satisfaction among industrial scientists. *Ibid.*, 4:286-89.

With C. L. Hulin

Addendum to "An empirical investigation of two implications of the two-factor theory of job satisfaction." *Ibid.*, pp. 341-42.

Reviews

Readings in attitude theory and measurement. Ed. by Martin Fishbein. *Psychometrika*, 23, 3:387-89.

White- and blue-collar in a mill shutdown: a case study in relative redundancy, by Felician F. Foltman. *Personnel Psychology*, 21, 4:541-43.

GREENBERG, GORDON Z., Assistant Professor

Articles

The frequency-response characteristic of auditory observers detecting signals of a single frequency in noise: the probe-signal method. *The Journal of the Acoustical Society of America*, 44, 6:1513-23.

GREENOUGH, WILLIAM T., Instructor

Articles

With B. W. Godolphin

Performance of rats on a discrimination operant alley task discriminated. *Behavioral Research Methods and Instrumentation*, 1: 57-59.

With A. Yuwiler, E. Geller

Biochemical and behavioral effects of magnesium pomoline. *Psychopharmacology*, Berlin, 13:174-80.

With R. Schwitzgebel, J. Fulcher

Permanence of ECS-produced amnesia as a function of test conditions. *Journal of comparative and physiological Psychology*, 66:554-56.

HIRSCH, JERRY, Professor

Articles

Behavior-genetic analysis and the study of man. In *Science and the concept of race*, ed. by Mead, Dobzhansky, Tobach, and Light, Columbia Univ. Press, N.Y., pp. 37-48.

With L. Erlenmeyer-Kimling

Behavior genetics. In *Contemporary approaches to psychology*, ed. by Helson and Bevan, D. Van Nostrand Co., Princeton, N.J., pp. 91-137. 1967.

With R. C. Hostetter

Behavior genetics. In *Foundations of abnormal psychology*, ed. by London and Rosenhan, Holt, Rinehart, and Winston, N.Y., pp. 28-60.

Reviews

Molecular psychobiology: a chemical approach to learning and other behavior, by John Gaito. *Contemporary Psychology*, 13, 2:51.

HULIN, CHARLES L., Associate Professor of Psychology and Industrial Relations

Articles

The effects of changes in job satisfaction levels on turnover. *Journal of Applied Psychology*, 52:122-26.

With M. R. Blood

Job enlargement, individual differences and worker responses. *Psychological Bulletin*, 69:41-55.

With Patricia S. Mikes

The use of importance as a weighting component of job satisfaction. *Journal of Applied Psychology*, 52:394-98.

With G. B. Graen

Addendum to "An empirical investigation of two implications of the two-factor theory of job satisfaction." *Ibid.*, 52:341-42.

Reviews

Personnel selection and placement, by Marvin Dunnette. *ILR Review*, 21:298-99.

HUMPHREYS, LLOYD G., Professor and Head of Department

Articles

The fleeting nature of the prediction of college academic success. *Journal of Educational Psychology*, 59, 5:375-80.

Factor analysis: psychological applications. *International Encyclopedia of the Social Sciences*, pp. 281-87.

HUNT, J. McV., Professor

Articles

Evolution of current concepts of intelligence and intellectual development. *The American Montessori Society Bulletin*, 6, 4.

Rip Van Winkle returns: Then and now. *The Clinical Psychologist*, 23, 1:5-12.

With N. S. Endler

S-R Inventories of Hostility and comparisons of the proportions of variance from persons, responses, and situations for hostility and anxiousness. *Journal of Personality and Social Psychology*, 9, 4:309-15.

Triple-interaction variance in the S-R Inventory of Anxiousness. *Perceptual and Motor Skills*, 27:1098.

With D. Greenberg, Ina C. Uzgris

Hastening the development of the blink-response with looking. *Journal of Genetic Psychology*, 113:167-76.

Conceptions of learning with implications for styles of teaching young children. *Proceedings of the conference of the Tri-University Project*, Sept. 1967, ed. by P. Olson, F. Rice. Univ. Nebraska, Lincoln, Dept. English.

The impact and limitations of the giant of developmental psychology. In *Studies in cognitive development: essays in honor of Jean Piaget*, ed. by D. Elkind and J. H. Flavell. Oxford Univ. Press, pp. 3-66.

On fostering the development of intellectual competence. In *Montessori for the disadvantaged: an application of Montessori educational principles to the war on poverty*, ed. by R. C. Orem, G. P. Putnam, N.Y., pp. 54-64. 1967.

Toward the prevention of incompetence. In *Research contributions from psychology to conceptions of community mental health*, ed. by J. W. Carter. *Monograph of the Journal of Public Health*.

JAKOBOVITS, LEON A., Associate Professor

Articles

Implications of recent psycholinguistic developments for the teaching of a second language. *Language Learning*, 18:89-109.

Dimensionality of compound-coordinate bilingualism. *Ibid.*, 3:29-49.

Effects of mere exposure: a comment. *Journal of Personality and Social Psychology Monograph Supplement*, 9:30-32.

With W. E. Lambert

A note on the measurement of semantic satiation. *Journal of Verbal Learning and Verbal Behavior*, 6:954-57.

KAESS, DALE W., Instructor

Articles

With M. W. Weir

Response technique as a factor in determining children's preference for complexity. *Psychonomic Science*, 11, 10:367-68.

McGRATH, JOSEPH E., Professor

Articles

With J. R. Hackman, L. E. Jones

A set of dimensions for describing the general properties of group generated written passages. *Psychological Bulletin*, 6:379-90. 1967.

A multifacet approach to classification of individual, group and organization concepts. In *People, groups, and organizations*, ed. by Indik & Berrien, Teachers College Press, Teachers College Columbia Univ., pp. 191-215.

MAIER, STEVEN F., Assistant Professor

Articles

With H. Gleitman

Proactive interference in rats. *Psychonomic Science*, 7:25-26. 1967.

With T. A. Allaway, H. Gleitman

Proactive inhibition in rats after prior partial reversal: A critique of the spontaneous recovery hypothesis. *Psychonomic Science*, 9:63-64. 1967.

With M. E. P. Seligman

Failure to escape traumatic shock. *Journal of experimental Psychology*, 74:1-9. 1967.

With M. E. P. Seligman, J. Geer

The alleviation of learned helplessness in the dog. *Journal of abnormal Psychology*, 73: 256-62.

MENGES, ROBERT J., Assistant Professor

Reviews

How children learn, by John Holt. *The Record*, 69, 8:800-05.

MONTAGUE, WILLIAM E., Associate Professor

Articles

With W. A. Hillix

Inter-trial interval and proactive interference in short-term motor memory. *Canadian Journal of Psychology*, 22:73-78.

With H. O. Kiess

The associability of CVC pairs. *Journal of Experimental Psychology Monograph*, 78, No. 2, Part 2.

MOSS, C. SCOTT, Professor

Articles

With S. Kratochvil, Z. Pluzek

Polish clinical psychology. *The Clinical Psychologist*, 22, 2:81-84.

Reviews

With S. Kratochvil

Pavlovian conception of hypnotic dreams in *Dreams in normal sleep and in hypnosis*, ed. by I. E. Volpert. *Contemporary Psychology*, 13, 4:212-13.

Induced Dreams, by P. Sacerdote. *Ibid.*, 9: 466-67.

MOWRER, O. HOBART, Research Professor

Articles

Loss and recovery of community—a guide to the theory and practice of integrity therapy. In *Innovations to group therapy*, ed. by G. M. Gazda, Charles C. Thomas, Springfield, Ill., pp. 130-89.

New evidence concerning the nature of psychopathology. In *Studies in psychotherapy and behavior change*, ed. by Marvin J. Feldman. Univ. Buffalo Press, Univ. N.Y. at Buffalo, pp. 111-93.

A résumé of basic principles of learning. In *Learning theory and stuttering*, ed. by Hugo H. Gregory, Northwestern Univ. Press, Evanston, Ill., pp. 3-20.

Stuttering as simultaneous admission and denial: or What is the stutterer "saying"? *Ibid.*, pp. 67-71.

Communication, conscience, and the unconscious. *Journal Commun. Disorders*, 1: 109-35.

Existentialism and integrity therapy. *Psychologia*, 10:109-17.

NEALEY, STANLEY M., Assistant Professor

Articles

With F. E. Fiedler

The leadership functions of middle managers. *Psychological Bulletin*, 70:313-29.

With M. R. Blood

Leadership performance of nursing super-

visors at two organizational levels. *Journal of Applied Psychology*, 52:414-22.

O'BRIEN, GORDON E., Visiting Assistant Professor

Articles

With D. Ilgen

Effects of organizational structure, leadership style, and member compatibility upon small group creativity. *Proceedings, American Psychological Association*, pp. 555-56.

The measurement of cooperation. *Organizational behavior and human performance*, 3: 427-39.

OSGOOD, CHARLES E., Professor

Articles

Toward a wedding of insufficiencies. In *Verbal behavior and general behavior theory*, ed. by T. R. Dixon, D. L. Horton, Prentice-Hall, Englewood Cliffs, N.J., pp. 496-519. 1967.

Reviews

International relations as a behavioral science: three samplers. International behavior: a social-psychological analysis, ed. by H. C. Kelman; Human behavior and international politics: contributions from the social-psychological sciences, ed. by J. D. Singer; Psychology and international relations, ed. by Gerald Sperrazzo. *Contemporary Psychology*, 13, 9:437-40.

PAUL, GORDON L., Associate Professor

Articles

Two-year follow-up of systematic desensitization in therapy groups. *Journal of Abnormal Psychology*, 73:119-30.

PETERSON, DONALD R., Professor

Books

The Clinical Study of Social Behavior. Appleton-Century-Crofts, N.Y., 254 pp.

PETERSON, ROBERT F., Assistant Professor

Articles

Imitation: A basic behavioral mechanism. In *Operant Procedures in remedial speech and language training*, ed. by H. N. Sloane and B. MacAulay, Houghton-Mifflin Co., Boston, pp. 61-74.

With Linda Peterson

The use of positive reinforcement in the control of self destructive behavior in a retarded boy. *Journal of Experimental Child Psychology*, 6:351-60.

With S. W. Bijou, Marian Ault

A method to integrate descriptive and experimental field studies at the level of data and empirical concepts. *Journal of Applied Behavior Analysis*, 1:175-91.

With Peggy Coyne, Linda Peterson

The development of spoon feeding behaviors in a blind child. *International Journal for the Education of the Blind*, XVIII, 4: 108-12.

Some experiments on the organization of a class of imitative behaviors. *Journal of Applied Behavior Analysis*, 1:225-35.

RAPPAPORT, JULIAN, Assistant Professor

With M. Zax, E. L. Cowen, D. R. Beach, J. D. Laird

Follow-up study of children identified early as emotionally disturbed. *Journal of Consulting and Clinical Psychology*, 32:369-74.

RENNER, K. EDWARD, Associate Professor

Articles

Temporal integration: amount of reward and the relative utility of immediate and delayed outcomes. *Journal of Comparative and Physiological Psychology*, 65:182-86.

SCHENCK, E. ALLEN, Visiting Assistant Professor

Articles

With J. C. Naylor, A. L. Dudyca

An empirical comparison of P α and P m as indices of rater policy agreement. *Educational and Psychological Measurement*, 27: 7-20. 1967.

With J. C. Naylor

A cautionary note concerning the use of regression analysis for capturing the strategies of people. *Educational and Psychological Measurement*, 28:3-7.

The influence of cue redundancy upon the human inference process for tasks of varying degrees of predictability. *Organizational Behavior and Human Performance*, 3:47-61.

SCOTT, G. KEITH, Research Assistant Professor

See Children's Research Center.

SPRAGUE, ROBERT L., Director of Children's Research Center and Associate Professor

See Children's Research Center.

STEINER, IVAN D., Professor

Articles

Reactions to adverse and favorable evaluations of one's self. *Journal of Personality*, 36: 553-63.

Responses to inconsistency. In *Theories of cognitive consistency: a sourcebook*, ed. by R. P. Abelson, E. Aronson, Wm. J. McGuire, T. M. Newcomb, M. J. Rosenberg, and P. H. Tannenbaum, Rand McNally and Co., Chicago, pp. 641-47.

With H. Johnson

The effects of source on responses to negative information about one's self. *Journal of Social Psychology*, 74:215-24.

With D. Kauffmann

Some variables affecting the use of conformity as an ingratiation technique. *Journal of experimental and social Psychology*, 4:400-14.

With R. H. Lowe

Some effects of the reversibility and consequences of decisions on post-decision information preferences. *Journal of Personality and Social Psychology*, 8:172-79.

STEINER, THEODORE E., Assistant Professor

Articles

With J. G. Greeno

Comments on "Markovian processes with identifiable states: General considerations and applications to all or none learning." *Psychometrika*, 33:169-72.

TATSUOKA, MAURICE, Professor

See Education.

TRIANDIS, HARRY C., Professor of Psychology and of Labor and Industrial Relations

Articles

Attitude measurement. In *Research methods in librarianship: measurement and evalua-*

tion, ed. by H. Goldhor, School of Library Science, Univ. Ill., Urbana, pp. 119-31.

Some cross-cultural studies of cognitive consistency. In *Theories of cognitive consistency: a source book*, ed. by R. P. Abelson, E. Aronson, Wm. J. McGuire, T. M. Newcomb, M. J. Rosenberg, and P. H. Tannenbaum, Rand McNally and Co., Chicago, pp. 723-30.

With W. Loh

Role perceptions in Peru. *International Journal of Psychology*, 3:175-82.

With E. J. Posavac

Personality characteristics, race and grades as determinants of interpersonal attitudes. *Journal of Social Psychology*, 76:227-42.

With V. Vassiliou, M. Nassiakou

Three cross-cultural studies of subjective culture. *Journal of Personality and Social Psychology, Monograph Supplement*, 8, 4: 1-42.

Reviews

Personality in culture, by J. J. Honigman. *Contemporary Psychology*, 13:646-48.

TUCKER, LEDYARD R., Professor

Articles

Comments on "Confounding of sources of variation in factor-analytic techniques." *Psychological Bulletin*, 70:345-54.

With P. H. Schönemann

A maximum likelihood solution for the method of successive intervals allowing for unequal stimulus dispersions. *Psychometrika*, 32:403-17. 1967.

ULLMANN, LEONARD P., Professor

Articles

Some implications of current research. In *Operant procedures in remedial speech and language training*, ed. by H. M. Sloane, Jr. and B. D. MacAulay. Houghton-Mifflin Co., Boston, pp. 424-30.

A sample of operant studies. *Journal of Special Education*, 2:319-21.

Can we reason together? *The Clinical Psychologist*, 22, 1:57-58.

Comment on Mill's: Prophecy fails again. *Newsletter, Corresponding Committee of Fifty*, 5, 3:7.

With M. E. Bowen, D. J. Greenberg, E. C. Macpherson, others

The effect on rapport of experimenters' approach and avoidance responses to positive and negative self-references. *Behaviour Research and Therapy*, 6:355-62.

Reviews

Behavior therapy techniques, by J. Wolpe and A. A. Lazarus. *Psychotherapy: Theory, Research, and Practice*, 5:61.

Group treatment of autistic children, by H. S. Coffey and L. L. Wiener. *Child Development Abstracts and Bibliography*, 42:68.

WAGMAN, MORTON, Associate Professor

Articles

The relationship of types of daydream behavior to selected MMPI scales. *Psychiatry*, 31, 1:84-89.

University achievement and daydreaming behavior. *Journal of Counseling Psychology*, 15, 2:196-98.

Perceived similarities in occupational value structure. *Vocational Guidance Quarterly*, 16, 4:275-81.

WEIR, MORTON W., Professor and Acting
Head of Department

Articles

Children's behavior in probabilistic tasks.
Young Children, XXIII, 2:90-105. 1967.

Memory and problem solving: A failure to replicate. *Journal of Experimental Psychology*, 78:166-68.

With J. C. DeFries, J. P. Hegmann

Differential effects of prenatal maternal stress on offspring behavior in mice as a function of genotype and stress. *Journal of comparative & physiological Psychology*, 63:332-34. 1967.

With R. S. Helgoe

Vocalization during discrimination: Effects of a mixture of two types of verbalization patterns. *Journal of verbal learning and verbal Behavior*, 7:842-44.

With D. W. Kaess

Response technique as a factor in determining children's performance for complexity. *Psychonomic Science*, 11:367-68.

WIGGINS, JERRY S., Professor

Articles

Personality structure. In *Annual review of psychology*, ed. by Farnsworth, Annual Reviews, Inc., Palo Alto, 19:293-350.

With Nancy Wiggins, Judith C. Conger

Correlates of heterosexual somatic preference. *Journal of Personality and Social Psychology*, 10:82-90.

With F. D. Payne

The effects of rule relaxation and system combination on classification rates in two MMPI "cookbook" systems. *Journal of Consulting Clinical Psychology*, 32:734-36.

WIGGINS, NANCY, Research Asst. Professor
—Institute of Communications Research
and Assistant Professor of Psychology

Articles

With P. J. Hoffman

Three models of clinical judgment. *Journal of abnormal Psychology*, 73:70-77.

Dimensions of profile judgments as a function of instructions, cue-consistency, and individual differences. *Multivariate Behavioral Research*, 3:3-20.

With J. S. Wiggins, Judith C. Conger

Correlates of heterosexual somatic preference. *Journal of Personality and Social Psychology*, 10:82-90.

YOUNG, PAUL T., Professor Emeritus

Articles

Physiological drives. In *International encyclopedia of the social sciences*, ed. by D. L. Sills, The Macmillan Co. and Free Press, N.Y., 4:275-80.

Emotion. *Ibid.*, 5:35-41.

Evaluation and preference in behavioral development. *Psychological Review*, 75, 3: 222-41.

DOCTORAL DISSERTATIONS

Blood, Milton R. (L. G. Humphreys, Adviser), Relationships among workers' backgrounds, attitudes, behaviors, and value systems.

Breitmeyer, Rudolf G. (K. E. Renner, Adviser), An incentive motivation approach to partial reinforcement.

Campbell, Priscilla A. (L. P. Ullmann, Adviser), The effects of role playing and verbal conditioning in humor preference.

Carlson, Arthur R. (H. Triandis, Adviser), The relationship between a behavioral intention, attitude toward the behavior, and normative beliefs about the behavior.

Chemers, Martin M. (F. E. Fiedler, Adviser), The effects of cultural training on situational favorableness and leader behavior in culturally heterogeneous groups.

Conger, Anthony J. (L. R. Tucker, Adviser), Dimensional analysis of binary data: an appraisal of the MMPI.

Conger, Judith C. (L. P. Ullmann, Adviser), The modification of therapist behavior by client use of social reinforcement.

Doctor, Ronald M. (L. P. Ullmann, Adviser), Bias effects and awareness in studies of verbal conditioning.

Hamilton, David L. (I. D. Steiner, Adviser), A multivariate analysis of personalogical differences in response to unfavorable evaluations of one's self.

Hoffmann, Edward L. (L. R. Tucker, Adviser), The effect of instructions to be "accurate" on responses to the MMPI.

Hostetter, Roy C. (L. O'Kelly, Adviser), Genetic analysis of water regulation in the rat: population parameter and initial results of selective breeding.

Hunter, Marilyn G. (L. O'Kelly, Adviser), The effect of four cholinergic agents on water intake in a water rewarded operant.

Kaplan, Kalman J. (M. E. Fishbein, Adviser), The effects of initial attitude and initial number of beliefs on subsequent attitude change: an exploration into the underlying cognitive dynamics.

Keeley, Stuart M. (C. W. Eriksen, Adviser), Visual detection as a function of attentional demand and perceptual system error.

Kenny, John W. (L. P. Ullmann, Adviser), Performance in the prisoner's dilemma game as a measure of trust in schizophrenics and normals.

Killian, Larry R. (D. R. Peterson, Adviser), Effects of training and motivation on chronic-schizophrenic abstraction.

Koopman, Raymond F., Jr. (L. R. Tucker, Adviser), Fitting a multidimensional component model to binary data.

McKaughan, Larry S. (D. E. Dulany, Adviser), Awareness and propositional control in children.

Murray, Harry G. (G. R. Grice, Adviser), Effects of stimulus intensity and method of stimulus presentation upon simple reaction time: evaluation of a decision-theory model.

Paletz, Merrill D. (W. C. Becker, Adviser), Prior reinforcement history as an explanation for the effects of sex of S-sex of E in social reinforcement paradigms.

Rosen, Ellen F. (L. O'Kelly, Adviser), Amygdaloid complex and medial hypothalamic nucleus functioning in the regulation of food.

Scott, Marcia S. (G. R. Grice, Adviser), Dimensional effects in the relational learning of retarded children.

Seitz, Victoria R. (M. W. Weir, Adviser), The measurement of dimensional dominance and its role in a concept-shift learning task.

Spencer, Terry J. (C. W. Eriksen, Adviser), Some effects of different masking stimuli on iconic storage.

Stockwell, Charles W. (H. W. Ades, Adviser), Patterns of hair cell damage in the guinea pig after intense auditory stimulation.

Trimble, Ralph W. (W. C. Becker, Adviser),

Vicious circle behavior in humans as a function of discrimination and aversiveness.

Wollersheim, Janet P. (G. L. Paul, Adviser), The effectiveness of learning theory-based group therapy in the treatment of overweight women.

PUBLIC INFORMATION

FLYNN, CHARLES E., University Director of Public Information and Professor of Journalism

Articles

Regulating cameras — propriety should prevail over coverage. In *Techniques*, 3, 4: 14-16.

The public relations function and legislative affairs. In *Public higher education and the state legislature: changing relationships*. Selected papers from a national workshop on state legislative relations, Ofc. Inst. Res., Natl. Assn. State Univ. and Land-Grant Coll., Wash., D.C., pp. 71-73.

RADIO AND TELEVISION

SKORNIA, HARRY J., Professor

Books

Television and the news. Pacific Books, Palo Alto, Calif., 232 pp.

Books Edited

With J. W. Kitson

Problems and controversies in television and radio. *Ibid.*, 503 pp.

Articles

National jukebox or educational resource? In *Sight, sound, and society*, ed. by White and Averson, Beacon Press, Boston, pp. 271-84.

Ratings and mass values. In *The mass media*, ed. by A. Fontenilles and J. Marty. Dunod, Paris, pp. 120-25.

America's image: U.S. tv and films abroad. *The Eleusis of Chi Omega*, 70, 4:732-41.

Recalling the lessons of history. *Educ./Instruc. Broadcasting*, 1, 5:29-31.

Television, radio and other new media in education. 1968 *IEEE Intl. Conf. Comm. Conf. Record*, pp. 854-58.

Reviews

Radio and television broadcasting on the European continent, by Burton Paulu. *Educ. Broadcasting Rev.*, 2, 2:53-55.

The farther vision: educational television today, ed. by Allen E. Koenig and Ruane B. Hill. *Educ./Instruc. Broadcasting*, 1, 2: 46-47.

The farther vision: educational television today, ed. by Allen E. Koenig and Ruane B. Hill. *English J.*, 57, 9:915-16.

The student journalist and broadcasting, by John Rider. *Journ. Qt.*, 45, 3:576.

RECREATION AND PARK ADMINISTRATION

BANNON, JOSEPH J., Assistant Professor

Articles

Winning votes. *Ill. Parks*, February, pp. 186-87.

The community school. *Rec. and Parks*, Natl. Rec. and Park Assn., January, pp. 26-28.

Glencoe attitude and interest survey. *Ill. Park and Rec.*, Spring, pp. 8-9.

Recreation — its value and contribution. In

Kansas recreation and park annual, pp. 12-13.

Cultural arts and the community. In *New Jersey recreation and park annual*, p. 9.

ELLIS, MICHAEL J., Assistant Professor

Articles

With R. A. Schmidt, M. G. Wade

Proprioception variables as determinants of lapsed time estimation. *Ergonomics*, 11: 577-83.

With M. G. Wade

Intertrial response strategy in learning time estimation. *Psychonomic Sci.*, 11:203.

FRYE, M. VIRGINIA, Assistant Professor

Articles

Crisis — challenge — change in personnel recruitment for therapeutic recreation. *Therapeutic Rec. J.*, 2, 4:4-8.

GARRET, MAXWELL R., Associate Professor

Bulletins and Technical Reports

A study of current recreation internship and field training programs at selected educational institutions and public agencies. Univ. Ill., Urbana, 51 pp.

PETERS, MARTHA L., Instructor

Articles

A survey of recreation services for the ill or disabled in Illinois. *Ill. Park and Rec. Qt.*, Spring, p. 8.

Music and the exceptional child. *Therapeutic Rec. J.*, 2, 3:3.

REGNIER, EARL H., Professor of Recreation and Park Administration and of Rural Recreation

Bulletins and Technical Reports

With W. N. Thompson, others

AID-university rural development contracts and U.S. universities. Dept. State Agency Intl. Devel., Wash., D.C., 192 pp.

AID-university rural development contracts, 1951-1966. Univ. Ill. CIC-AID Rural Devel. Res. Project, Urbana, 95 pp.

RUSSIAN LANGUAGE AND AREA STUDIES

SHIMKIN, EDITH M., Associate, Russian and East European Center

Articles

Translated; Radiocarbon dates from Soviet laboratories, 1 January 1962-1 January, 1966. Commission for the study of the quaternary period, Acad. Sci., USSR. Comments by D. B. Shimkin. *Radiocarbon*, 10, 2:417-67.

SLAVIC LANGUAGES AND LITERATURES

BRISTOL, EVELYN C., Associate Professor

Reviews

Mayakovsky, trans. and ed. by Herbert Marshall; The symbolic system of Majakovskij, by Lawrence Leo Stahlberger. *Slavic Rev.*, 27, 1:164-65.

GLADNEY, FRANK Y., Assistant Professor

Articles

Some rules for nasals in Polish. In *Studies presented to Prof. Roman Jakobson by his students*, ed. by C. Gribble, Slavica Pub., Cambridge, Mass., pp. 112-20.

- Reviews**
 Beginning Polish, I, by A. M. Schenker. *SEEJ*, 12, 2:222-27.
- HILL, STEVEN P.**, Assistant Professor
- Articles**
 Russia (its film view of world war I). *Film Soc. Rev.*, 4, 3:34-41.
 Russian film terminology. *SEEJ*, 12, 2:199-205.
 (Translation and annotation:) A mosaic of Soviet writings on the film. *Film Comment*, 5, 1:21-48.
- Reviews**
 Russian social science reader, by E. L. Johnson, R. E. F. Smith. *SEEJ*, 12, 2:236-38.
 Some recent Polish films. *Film Soc. Rev.*, 3, 6:18-22.
- KLEIN, KURT A.**, Associate Professor
- Articles**
 Russian in Ill. high schools. *Ill. J. Educ.*, 59, 3:45-50.
- Reviews**
 Laut- und formenbestand der niederdeutschen Mundart des altagebietes, by Hugo Jedig. *J.E.G.P.*, 67, 2:334-35.
 The expression of the passive voice, by W. Harrison. Agreement of the verb predicate with a collective subject, by J. Mullen. *SEEJ*, 12, 3:371-72.
 Slovesnoe udarenie v sovremennom russkom jazyke, by N. P. Jakovenko. *Ibid.*, 4:492-93.
- PACHMUSS, TEMIRA**, Professor
- Articles**
 A literary quarrel: Zinaida Hippus versus Tatjana Manukhina. *Yrbk. of the Estonian Learned Soc. in Amer.*, (1964-67), 4:63-83.
 Z. N. Hippus: *Posledny Krug. La Renaissance* (Paris, 1968), 198:7-51; 199:7-47.
 Z. Hippus: Dnevnik 1933 goda. *The New Rev.* (N.Y., 1968), 92:206-18.
 Zinaida Hippus: *Epokha Mira Iskusstva. La Renaissance* (Paris, 1968), 203:66-73.
- Reviews**
 Russian folk lit.: Skazki, liricheskie pesni byliny, istoricheskie pesni, dukhovnye stikhi, ed by D. P. Costello and I. P. Foote. *Can. Slav. Studies*, 2, 1:143.
 Soviet Russian literature: writers and problems, 1917-1967, by Marc Slonim. *Ibid.*, 2, 1:144.
 Tolstoy and the novel, by John Bayley. *SEEJ*, 12, 2:253-54.
 Westeuropa und Russland im Weltbild Alexander Bloks, by Rolf-Dieter Kluge. *Slavistische beitrage*, 27, *SEEJ*, 12, 3:354-55.
 The notebooks for "The idiot," ed. and introduced by Edward Wasiolek, trans. by Katherine Strelsky. *Comp. Lit. Studies*, Univ. Ill. Press, Urbana, 5, 4:506-8.
- THOMSON, R. DAVID B.**, Visiting Associate Professor
- Reviews**
 Alexander Blok. A study in rhythm and metre, by Robin Kemball. *SEEJ*, 46, 106:229-35.
 Sergej Esenin: A biographical sketch, by Frances de Graaff. *Ibid.*
 Marina Cvetaeva: Her life and art, by Simon Karlinsky. *Ibid.*
 The Serapion brothers: Theory and practice, by Hongor Oulanoff. *Ibid.*
- Maxim Gorky the writer: An interpretation, by F. M. Borrás. *Ibid.*, 107:506-11.
 The symbolic system of Mayakovsky, by Lawrence L. Stahlberger. *Ibid.*
 Pasternak's lyric: A study of sound and imagery, by Dale L. Plank. *Ibid.*
 Dnevnik moikh vstrech by Yuriy Annenkov. *Ibid.*
 Serebryanyj golub', Peterburg, Kotik letayev, by Andrey Belyy. *TLS*, March, p. 292.
- DOCTORAL DISSERTATIONS**
 Bilokur, Borys (Z. Folejewski, Adviser), Lexical elements of Tjutčev's poetry.
- SMALL HOMES COUNCIL—BUILDING RESEARCH COUNCIL**
- BROTHERSON, DONALD E.**, Research Associate Professor of Architecture
- Articles**
 Comparative heating performance—insulated school vs. non-insulated school. *Proc. 23rd Ann. Short Course in Resident. Constr.*, Univ. Ill. Small Homes Coun.—Building Res. Coun., Urbana, pp. 99-103.
- Bulletins and Technical Reports**
 Comparative heating performance—insulated school vs. non-insulated school. Univ. Ill. Small Homes Coun.—Building Res. Coun., Urbana, *Res. Rpt. 68-2*, 33 pp.
- JONES, RUDARD A.**, Director and Research Professor of Architecture
- Articles**
 The 7/4 house—new designs. *Proc. 23rd Ann. Short Course in Resident. Constr.*, Univ. Ill. Small Homes Coun.—Building Res. Coun., Urbana, pp. 14-20.
 Principles of low-cost construction. *Ibid.*, pp. 34-39.
 Small Homes Council—Building Research Council, what it is—what it does. *Proc. First Conf. Amer. Assn. Housing Educators*, pp. 53-59. 1967.
 Composite of cost-saving construction techniques. *Proc. Economy Housing Seminar*, 367:26-29.
- Bulletins and Technical Reports**
 With D. H. Percival, R. J. Pero
 Roof frames for 7/4 house designs. Univ. Ill. Small Homes Coun.—Building Res. Coun., Urbana, *Instr. Sheet #15*.
- KAPPLE, WILLIAM H.**, Research Associate Professor of Architecture
- Articles**
 The 7/4 house—what is it? *Proc. 23rd Ann. Short Course in Resident. Constr.*, Univ. Ill. Small Homes Coun.—Building Res. Coun., Urbana, pp. 6-13.
- PERCIVAL, DONALD H.**, Research Associate Professor of Wood Technology
- Articles**
 The 7/4 house—structure and construction. *Proc. 23rd Ann. Short Course in Resident. Constr.*, Univ. Ill. Small Homes Coun.—Building Res. Coun., Urbana, pp. 21-25.
 Wood framing for light commercial buildings. *Ibid.*, pp. 94-98.
 The potentialities of pressure-treated wood foundations in residential construction. *Proc. Amer. Wood Preservers Assn.*, 64:39-44.

Bulletins and Technical Reports

With R. A. Jones, R. J. Pero

- Roof frames for 7/4 house designs. Univ. Ill. Small Homes Coun.—Building Res. Coun., Urbana, Instr. Sheet #15.

SOCIAL WORK

COSTIN, LELA B., Associate Professor

Books Edited

- Proceedings of the centennial conference on the regulation of child-care facilities. Univ. Ill., The Jane Addams Graduate School of Social Work, Champaign-Urbana, 103 pp.

Articles

The regulation of child-care facilities. In *Proceedings of the centennial conference on the regulation of child-care facilities*, pp. 1-18.

Hard questions. Commentary on "Licensing for child care: a preventive welfare service," by Norris E. Class. *Children*, 15, 6:248.

HALE, MARK P., Professor

Reviews

- The social welfare forum 1967: official proceedings, 94th annual forum, national conference on social welfare. *Social Casework*, 49, 7:428.

LATHROPE, DONALD E., Professor

Articles

Comprehensive planning for social work services. In *Army social work: collected papers of the advanced seminar on the American family in the army community*, Fitzsimmons General Hospital, Denver, Colo., 1967, pp. 1-15.

TABER, MERLIN, Professor

Articles

With H. Mark

- A typology of organizational data. *Sociological Focus*, 1, 2:21-31.

SOCIOLOGY

BORDUA, DAVID J., Professor

Articles

- Comments on police-community relations. *Connecticut Law Review*, 1, 2:306-31.

DENZIN, NORMAN K., Assistant Professor

Books Edited

With S. P. Spitzer

- The mental patient: studies in the sociology of deviance. McGraw-Hill Book Co., N.Y., 486 pp.

Articles

The self-fulfilling prophecy and patient-therapist interaction. In *The mental patient: studies in the sociology of deviance*, ed. by Spitzer and Denzin, McGraw-Hill Book Co., N.Y., pp. 334-43.

On the ethics of disguised observation. *Soc. Problems*, 15, 4:502-4.

Incomplete professionalization: the case of pharmacy. *Soc. Forces*, 46, 3:375-81.

Collective behavior in total institutions: the case of the mental hospital and the prison. *Soc. Problems*, 15, 3:353-65.

With S. P. Spitzer

- Paths to the mental hospital and staff pre-

dictions of patient role behavior. In *The mental patient: studies in the sociology of deviance*, ed. by Spitzer and Denzin, McGraw-Hill Book Co., N.Y., pp. 334-43.

FARBER, BERNARD, Professor

Books

Comparative kinship systems. John Wiley and Sons, N.Y., 147 pp.

Mental retardation: its social context and social consequences. Houghton Mifflin Co., Boston, 287 pp.

FLIEGEL, FREDERICK C., Professor

See *Agricultural Economics*.

JACOBS, NORMAN G., Professor

Bulletins and Technical Reports

Ajia shokaku ni okeru kindaika to rodoundo (Modernization in various Asian countries and the labor movement). In *Japanese*, Kokusai Koryu, No. 86, Japanese Institute of Labor, Tokyo, 25 pp.

JOHNSON, HARRY M., Professor

Articles

Ideology and the social system. In *International encyclopedia of the social sciences*, The Macmillan Company and The Free Press, N.Y., pp. 76-85.

KARSH, BERNARD, Professor

See *Labor and Industrial Relations*.

LÜSCHEN, GÜNTHER, Associate Professor

See *Physical Education for Men*.

MARK, HAROLD, Assistant Professor

Articles

With M. A. Taber

A typology of organizational data. *Sociological Focus*, 1, 2:21-31.

SIMON, RITA J., Professor and Head of Department

Books Edited

The sociology of law. Chandler Pub. Co., San Francisco, 688 pp.

Articles

Use of the semantic differential in research on the jury. *Journalism Q.*, 45, 4:670-76.

What is important in sociology—1968. *Sociological Q.*, 9, 3:405-9.

Class, status, and savings of Negroes. *Amer. Sociologist*, 3, 3:218-20.

Bulletins and Technical Reports

Political violence directed at public office holders: a brief analysis of the American scene. Prepared for the National Commission on the Causes and Prevention of Violence.

Reviews

The apathetic majority, by Glock, Selznick, Spaeth. *Amer. J. of Soc.*, 73, 5:646-48.

Criminal justice, by Abraham S. Blumberg. *Amer. Soc. Rev.*, 33, 6:994-95.

SOLAUN, MAURICIO, Assistant Professor

Articles

Socialization and compromise through violence: a Latin American modality of sociopolitical change. *Razón y Fábula* (Bogota), No. 10, pp. 61-76.

SOUTHWOOD, KENNETH E., Instructor

Articles

A note on systemic frustration. *J. of Conflict Resolution*, 12, 3:393-95.

SUDMAN, SEYMOUR, Associate Professor
See Survey Research Laboratory.

SUMMERS, GENE F., Assistant Professor

Articles

With R. Allen

Communicative abilities among teacher trainees. *Contemporary Educ.*, Indiana State Univ., Terre Haute, 40, 1:43-48.

TIEN, H. Y., Associate Professor

Articles

Birth control in mainland China: ideology and politics. In *Population and society*, ed. by Charles Nam, Houghton Mifflin Co., Boston, pp. 677-87.

The intermediate variables, social structure and fertility change: a critique. *Demography*, 5, 1:137-58.

VUCINICH, ALEXANDER, Professor

Articles

Science and morality: a soviet dilemma. *Science*, 159, pp. 1208-12.

Science. In *Prospects for Soviet society*, ed. by Allen Kassof, Frederick A. Praeger, N.Y., pp. 318-54.

Reviews

Women in the soviet economy, by N. T. Dodge. *The J. of Developing Areas*, 2, 2:287-88.

A naturalist in Russia, ed. by C. Urness. *The Slavic Review*, 27, 2:360-61.

DOCTORAL DISSERTATIONS

Cole, Robert E. (B. Karsh, Adviser), Japanese blue collar workers: a participant observation study.

Dhindsa, Ragwinder K. (J. R. Gusfield, Adviser), Changing status of women in rural India.

Oestereicher, Emil (J. R. Gusfield, Adviser), Consciousness and social action: toward a structural-dialectical conceptualization of action and thought.

SPANISH, ITALIAN, AND PORTUGUESE

BLAYLOCK, WILLIAM C., Associate Professor

Articles

Latin L—, —LL— in the Hispanic dialects: retroflexion and lenition. *RPh*, 21, 4:392-409.

Reviews

Lengua y cultura, by Gerhard Rolf. *HR*, 36, 3:270-71.

COWES, HUGO W., Associate Professor

Articles

Dimensión dramática en un texto lírico de Antonio Machado. *La Nación* (13 de marzo).

Indicaciones sobre la estructura de *Luces de Bohemia*, de Valle-Inclán. *Razón y Fábula*, 10:35-50.

FORSTER, MERLIN H., Associate Professor

Articles

Three versions of a poem by Jaime Torres Bodet. *Romance Notes*, 10, 1:32-6.

Reviews

Manuel Gutiérrez Nájera: Vida y obra, by Carlos Gómez del Prado. *Symposium*, 22: 83-85.

KAHANE, HENRY R., Professor

Books

With Renée T. Kahane, Lucille Bremner

Glossario degli antichi portolani italiani. Olschki, Florence, 133 pp.

Articles

With Renée T. Kahane

Graeco-Romance etymologies (II). *Rom. Philol.*, 21:502-10.

Risk. In *Festschrift Ernst Gamillscheg*, Fink Verlag, Munich, pp. 275-83.

With Renée T. Kahane, Angelina R. Pietrangeli

On the sources of Chrétien's grail story. In *Festschrift Walther von Wartburg*, Niemeyer Verlag, Tübingen, pp. 191-233.

LEAL, LUIS, Professor

Books

Panorama de la literatura mexicana actual. Pan American Union, Washington, D.C., 203 pp.

With J. H. Silverman

Teacher's manual for *Siglo Veinte*. Holt, Rinehart and Winston, N.Y., 106 pp.

Books Edited

With J. H. Silverman

Siglo Veinte. Holt, Rinehart and Winston, N.Y., 429 pp.

Articles

Darío en México. In *Estudios sobre Rubén Darío*, ed. by Ernesto Mejía Sánchez, Fondo de Cultura Económica, Mexico, D.F., pp. 118-24.

Interpretaciones de la literatura mexicana. In *Humanitas*, ed. by Universidad de Nuevo León, Monterrey, Mexico, pp. 259-73.

Aspects of the Mexican novel: From Lizardi to Elizondo. *AQ*, 24, 1:53-64.

Rubén Darío, novelista. *Et Caetera*. Guadalajara, Mexico, 2a. época, 3, 11:51-62.

El *Album Mexicano*. *BBSCHP*, 2a. época, 14, 393:12-16.

Myth and social realism in Miguel Angel Asturias. *CLS*, 5, 3:237-47.

Reviews

Obras, by Xavier Villaurrutia. *IRB*, 18, 3: 323-26.

LOTT, ROBERT E., Associate Professor

Articles

Sobre el método narrativo y el estilo en las novelas de Azorín. *Cuadernos Hispano-americanos*, 76, 226-227:192-219.

Reviews

Historia de la crítica española contemporánea, by E. de Zuleta. *Hispania*, 51, 2:365.

Unamuno: an existential view of self and society, by Paul Ilie. *Books Abroad*, 42, 2:283-84.

Análisis de los Estados Unidos, by Julián Marías. *Ibid.*, 4:560-61.

MEEHAN, THOMAS C., Assistant Professor

Articles

Ernesto Sábato's sexual metaphysics: Theme and form in *El túnel*. *MLN*, 83, 2:226-52.

Reviews

All green shall perish. And other novellas

and stories, by Eduardo Mallea. *Novel: A Forum on Fiction*, 1, 2:198-200.

MONTANO, ROCCO, Professor

Articles

The intellectuals and the war: The viewpoint of a European intellectual. *Umanesimo*, 1, 5:2-13, 1967.

L'ultima sylvia del Poliziano: La più bella, più tragica lirica del Rinascimento. *Ibid.*, pp. 14-20.

Idea del Rinascimento: L'umanesimo come antiscienza e antifilosofia — Pietro Pomponazzi. *Ibid.*, pp. 42-61.

Notes on culture and moral life: Individualism, Communism, Catholicism. *Ibid.*, pp. 62-69.

Notes and comments. *Ibid.*, pp. 78-83.

From Montaigne to the Tempest. *Umanesimo*, 1, 6:9-36, 1967.

The Negro problem today and the intellectuals. *Ibid.*, pp. 55-64.

Note di cultura e di vita morale. *Ibid.*, pp. 65-73.

Notes and comments. *Ibid.*, pp. 74-80.

PIETRANGELI, ANGELINA R., Professor

Articles

With Henry R. and Renée T. Kahane

On the sources of Chrétien's grail story. In *Festschrift Walther von Wartburg*, Niemeyer Verlag, Tübingen, pp. 191-233.

PORQUERAS-MAYO, ALBERTO, Professor

Books

El prólogo en el manierismo y barroco españoles. Consejo Superior de Investigaciones Científicas, Madrid, 299 pp.

Articles

Noticia de rarezas bibliográficas cervantinas. *Rev. de Literatura*, 31, 61-62:38-55.

Nuevas aportaciones al topos no haber nacido en la literatura española. *Segismundo*, 3, 1-2:63-73.

Reviews

La mano de Dios pasa por este perro, by A. Serrano Plaja. *RHM*, 33, 3-4:349-50.

DOCTORAL DISSERTATIONS

Birkemoe, Diane S. (L. Leal, Adviser), Contemporary women novelists of Argentina (1945-1967).

Cypess, Sandra M. (L. Leal, Adviser), The dead narrator in modern Latin American prose fiction: a study in point of view.

Lewis, Marcia S. (W. H. Shoemaker, Adviser), *The modernismo* of Jacinto Benavente.

Penuel, Arnold M. (W. H. Shoemaker, Adviser), Charity in the novels of Galdos.

Sullivan, Constance A. (W. H. Shoemaker, Adviser), Narrative irony in the prose fiction of Ramón Pérez de Ayala.

SPEECH

BATEMAN, JOHN J., Professor

See Classics.

BROOKS, ROBERT D., Assistant Professor

Articles

With T. M. Scheidel

Speech as process: a case study. *SM*, 35, 1:1-7.

BURNS, KENNETH, Associate Professor

Articles

The declamatory events. *Ill. Speech J.*, 22: 23-25.

CRONEN, VERNON E., Instructor

Articles

Comparative advantage: a classification. *Central States Speech J.*, 19, 4:243-49.

DANILOFF, RAY G., Assistant Professor

Articles

With K. L. Moll

Coarticulation of lip rounding. *J. Speech Hearing Res.*, 11:707-21.

With W. R. Zemlin, T. H. Shriner

The difficulty of listening to time-compressed speech. *Ibid.*, 11:875-81.

Intelligibility of vowels altered in duration and frequency. *J. Acoust. Soc. Amer.*, 44: 700-707.

DIETER, OTTO A., Associate Professor

Articles

With W. C. Kurth

The De Rhetorica of Aurelius Augustine. *SM*, 35, 1:90-108.

INCE, ROBERT L., Assistant Professor

Books

With E. R. Davis

The status of secondary speech education in Illinois: a survey. *Ofc. Supt. Pub. Instruction*, State of Ill., Springfield, 99 pp.

Articles

The status of secondary school speech education in Illinois. *Ill. Speech J.*, 22:31-35.

MUELLER, HENRY L., Professor

Reviews

World of laughter: the motion picture comedy short, 1910-1930, by Kalton C. Lahue. *J. Aesthet. Educ.*, 2, 1:139.

MURPHY, RICHARD, Professor

Reviews

The politics of honor: a biography of Adlai E. Stevenson, by Kenneth S. Davis; Adlai Stevenson—a study in values, by Herbert J. Muller. *QJS*, 54:178-79.

A bibliography of Joseph Priestley, 1733-1804, by Ronald E. Crook. *QJS*, 54: 417-19.

NASCA, FRANCIS L., Assistant Professor

Articles

The role of speech pathology in communication disorders in children. *Ill. Speech Hearing Assn. J.*, 2, 1:6-9.

Preliminary postulations for the education of hard of hearing children within the public school systems of the United States. In *Proceeding of the institute on aural rehabilitation*, Univ. Denver, Colorado, pp. 90-93.

NICHOLS, MARIE H., Professor

Books Edited

Abstracts Speech Association of America 54th annual meeting. Stipes Pub. Co., Champaign, Ill., 111 pp.

SANDERS, LOIS J., Assistant Professor

Articles

Instrumentation for measurement of lingual strength. *J. Speech Hearing Res.*, 11, 1: 189-93.

SCHEIDEL, THOMAS M., Associate Professor

Articles

With R. D. Brooks

Speech as process: a case study. *SM*, 35, 1:1-7.

SHRINER, THOMAS H., Assistant Professor
See Children's Research Center.

SILVERMAN, FRANKLIN H., Assistant Professor

Articles

Intraclass correlation coefficient as an index of reliability of median scale values for sets of stimuli rated by equal-appearing intervals. *Percept. Mot. Skills*, 26, 3:878.

An approach to determining the number of judges needed for scaling experiments. *Ibid.*, 27, 4:1333-34.

With D. Sherman

Three psychological scaling methods applied to language development. *J. Speech Hearing Res.*, 11, 4:837-41.

With D. E. Williams

Loci of disfluencies in the speech of nonstutterers during oral reading. *Ibid.*, 2:444-46.

A note concerning articulation of school-age stutterers. *Percept. Mot. Skills*, 27, 3:713-14.

With D. E. Williams, J. A. Kools

Disfluency behavior of elementary school stutterers and nonstutterers: the adaptation effect. *J. Speech Hearing Res.*, 11, 3:662-30.

STARK, EARL W., Associate Professor

Articles

Beskey audiometry. *Maico Audiological Library Series*, Volume 6, Report 5.

Beskey audiometry with children. *Ibid.*, 6, Report 8.

UROFF, MARGARET D., Assistant Professor

Books

Becoming a city. Harcourt, Brace & World, Inc., N.Y., 154 pp.

WALLACE, KARL R., Professor Emeritus

Articles

Goals, concepts, and the teacher of speech. *The Speech Teacher*, 17, 2:91-100.

ZEMLIN, WILLARD R., Associate Professor

Books

Speech-hearing science — anatomy and physiology. Prentice-Hall, Englewood Cliffs, N.J., 588 pp.

Articles

With R. Daniloff, T. Shriner

The difficulty of listening to time-compressed speech. *J. Speech Hearing Res.*, 11:875-81.

Intelligibility of vowels altered in duration and frequency. *J. Acoust. Soc. Amer.*, 44:700-7.

DOCTORAL DISSERTATIONS

Benson, Richard L. (C. H. Shattuck, Adviser), Jarrett and Palmer's 1875 production of Julius Caesar: a reconstruction.

Cockerham, Louis W. (R. Murphy, Adviser), Alexander Bain's philosophy of rhetoric.

Engle, Ronald G. (B. W. Hewitt, Adviser), Franz Lang and the Jesuit stage.

Fischer, Raymond L. (M. H. Nichols, Adviser), The rhetorical principles of Robert Green Ingersoll.

Hill, Leslie B. (J. W. Wenzel, K. R. Wallace, Advisers), Charles Evans Hughes and United States adherence to an international court: a rhetorical analysis.

Martin-Trigona, Helen V. (H. L. Mueller, K. R. Wallace, Advisers), Logical proof and imaginative reason in selected speeches of Francis Bacon.

Miller, Tice L. (B. W. Hewitt, Adviser), The theatre criticism of John Ranken Towse.

Otis, John F., Jr. (C. H. Shattuck, Adviser), The Barrymore *Hamlet* 1922-1925.

Roman, Lisbeth J. (C. H. Shattuck, Adviser), The acting style and career of Junius Brutus Booth.

Watermeier, Daniel J. (C. H. Shattuck, Adviser), A critical edition of selected letters from Edwin Booth to William Winter.

Woolley, Dale E. (W. R. Zemlin, J. J. O'Neill, Advisers), Degrees of difference as predictors of perceptual confusions among phonemes in English.

Workman, John P. (B. W. Hewitt, Adviser), George C. Tyler star revivals, 1924 to 1928.

STUDENT COUNSELING SERVICE

SCHROEDER, PEARL, Clinical Counselor
with rank of Associate Professor

Articles

With Eunice Dowse

Selection, function, and assessment of residence hall counselors. *Personnel and Guidance J.*, 47, 2:151-56.

SURVEY RESEARCH LABORATORY

FERBER, ROBERT, Professor

Books

With W. Wilson

Education in the health fields for State of Illinois (Vol. 2). State Board of Higher Educ., Springfield, Ill., 110 pp.

Books Edited

With D. M. Slate

Proceedings of the Paul D. Converse awards symposium: systems research and applications for marketing. *Bur. Econ. and Bus. Res.*, Urbana, Ill., 65:132 pp.

Articles

Recent trends in marketing research. In *Research methods in librarianship: measurement and evaluation*. Ill. Grad. School of Lib. Sci., Univ. Ill., Urbana, pp. 33-39.

How not do research. *J. Mktg. Res.*, 5: 104.
The role of the university in business research. *Bus. Horizons*, April, pp. 17-22.

HAUCK, MATHEW, Research Associate

Reviews

The dynamics of interviewing, by Kahn and Cannell. *Viewpoints*, 9, 2:7.

Interviewing: its forms and functions, by Richardson, Dorenwend, Klein. *Viewpoints*, 9, 3:6.

SUDMAN, SEYMOUR, Associate Professor

Articles

With B. Frisbie

The use of computers in coding free responses. *Public Opin. Q.*, 32, 2:216-32.

WILSON, WALLACE, Assistant Professor

Books

With R. Ferber

Education in the health fields for State of Illinois (Vol. 2). State Board of Higher Educ., Springfield, Ill., 110 pp.

THEATRE

HEWITT, BARNARD, Professor

Articles

The stage. In *American civilisation: an introduction*, ed. by A. N. J. den Hollander and Sigmund Skard, Longmans, London, pp. 347-60.

RICHARDSON, GENEVIEVE, Associate Professor

Reviews

Costume in the theatre, by James Laver. *Speech Teacher*, 18, 3:257.

THEORETICAL AND APPLIED MECHANICS

BIANCHINI, ALBERT C., Associate Professor

Articles

With C. E. Kesler, J. L. Lott

Cracking of reinforced concrete under external load. In *Causes, mechanism, and control of cracking in concrete*, ACISP-20, pp. 73-85.

BORESI, ARTHUR P., Professor

Articles

With R. E. Miller

Analyses of circular bars and tapered twisted bars. In *Proc. 10th Midwestern Mech. Conf.*, 1968, pp. 601-14.

With H. L. Langhaar, R. E. Miller

Buckling of a cooling tower. In *Proc. Canadian Cong. Applied Mech.*, Laval University, Quebec, 1:130-31.

CARLSON, DONALD E., Associate Professor

Articles

With H. J. Petroski

Controllable states of rigid heat conductors. *ZAMP*, 19, 2:372-76.

Controllable states of elastic heat conductors. *Arch. Rat. Mech. Anal.*, 31, 3:127-50.

Reviews

Modern developments in the mechanics of continua, ed. by Salomon Eskinazi. *J. Astro. Sci.*, 15, 1:40.

CLARK, MARLYN E., Professor

Articles

With W. A. Himwich

Model studies of the Circle of Willis: pressure and flow changes. In *Progress in brain research, cerebral circulation*, ed. by W. Luyendijk, Elsevier Pub. Co., Amsterdam, 30:135-43.

With W. A. Himwich, J. D. Martin

A comparative examination of cerebral circulation models. *J. Neurosurg.*, 29, pp. 484-94.

With J. C. F. Chow

Theoretical and experimental analysis of wave propagation in an initially stretched viscous-fluid filled viscoelastic tube. In *Proc. 6th Intl. Cong. on Acoustics*, Tokyo, pp. 279-82.

With G. F. Ayala, J. Demules

Impedance analyses of model and prototype arterial systems for abnormality effects. In *Proc. 21st Ann. Conf. in Med. and Biology*, Houston, pp. 23-4.

COSTELLO, GEORGE A., Professor

Articles

An error evaluation of an approximate solution of the integral equation of Fredholm. In *Proc. 10th Midwestern Mech. Conf.*, pp. 139-45.

Reviews

Numerical methods for creep and rupture analysis. By J. B. Conway. *Materials Research and Standards*, March, p. 46.

DOLAN, THOMAS J., Professor

Articles

Properties of structural materials. Section 4, *Handbook for electrical engineers*, ed. by Fink & Carroll, McGraw-Hill Book Co., N.Y., pp. 4-438 to 4-572.

KESLER, CLYDE E., Professor

Articles

A door to fit the key. *Proc. Am. Concrete Inst.*, 65, pp. 353-56.

Concrete—Year 2000. (In Japanese.) *J. Japan National Council on Concrete*, 6, 6:1-12.

With A. C. Bianchini, J. L. Lott

Cracking of reinforced concrete under external load. ACI SP-20, *Causes, mechanism, and control of cracking in concrete*, pp. 73-85.

With A. Atlas, C. P. Siess

Control of cracking in slabs reinforced with welded wire fabric. *Ibid.*, pp. 205-9.

Bulletins and Technical Reports

With H. Rejali

Effect of rust on bond of welded wire fabric. *Tech. Bull. 265, Am. Road Build. Assn.*, 12 pp.

With E. M. Wallo

Prediction of creep in structural concrete. *Univ. Ill. Eng. Exp. Sta. Bull. 498*, 65 pp.

With J. P. Lloyd, J. L. Lott

Fatigue of concrete. *Ibid.*, Bull. 499, 25 pp.

LANGHAAR, HENRY L., Professor

Articles

With T. G. Carley

Transverse shearing stress in rectangular plates. *J. Eng. Mech. Div., Proc. ASCE*, 5795, EM 1, pp. 137-51.

MILLER, ROBERT E., Professor

Articles

With A. P. Boresi

Analyses of circular bars and tapered twisted bars. In *Proc. 10th Midwestern Mech. Conf.*, 1968, pp. 601-14.

With H. L. Langhaar, A. P. Boresi

Buckling of a cooling tower. In *Proc. Canadian Cong. Applied Mech., Vol. 1*, Laval University, Quebec, pp. 130-31.

ROBERTSON, JAMES M., Professor

Articles

Discussion: boundary-layer displacement thickness on flat plates. *J. Hydr. Div. Proc. ASCE*, 94, HY3:768-71.

Discussion: the turbulent waks of a body of revolution. *J. Basic Engr. Tr. ASME*, 90D:637-38.

Discussion: a suction scheme applied to flow through sudden enlargement. *Ibid.*, p. 552.

With J. D. Martin, T. E. Burkhart

Turbulent flow in rough pipes. *I & EC-Fundamentals*, 7:253-65.

Bulletins and Technical Reports

1968 Cavitation Forum. *Am. Soc. Mech. Engrs.*, N.Y., 26 pp.

STIPPES, MARVIN C., Professor

Articles

A representation theorem for biharmonic functions. *J. Math. Anal. and Appl.*, 22, 3:599-601.

With S.-K. Chan

The initial value problem in classical elasticity. *J. Franklin Inst.*, 285, 1:64-68.

With L. B. Freund

Initial shear stresses in the viscoelastic half-plane. *Devel. in Theor. & Appl. Mech.*, 3:485-93, 1967.

With J. Dundurs

Behavior of an edge dislocation in presence of a surface layer. *Devel. in Mechanics*, Johnson Pub. Co., 4:559-69.

With R. Weeks, J. Dundurs

Exact analysis of an edge dislocation near a surface layer. *Intnl. J. Eng. Sci.*, 6: 365-72.

TAYLOR, CHARLES E., Professor

Articles

With R. E. Rowlands, I. M. Daniel

Ultrahigh-speed framing photography employing a multiply-pulsed ruby laser and a "smear-type" camera: applications to dynamic photoelasticity. In *High speed photography*, Proceedings of the 8th Intl. Cong. on High-Speed Photography, Stockholm, June 1968. Almquist & Wiksell, Stockholm, pp. 275-80.

WORLEY, WILL J., Professor

Articles

With H.-c. Wang

An approach to optimum shape determination for a class of thin shells of revolution. *J. Applied Mech.*, 35, Series E, 3, September 1968, 524-29.

DOCTORAL DISSERTATIONS

Callahan, Joseph P. (C. E. Kesler, Adviser), Effect of stress on freeze-thaw durability of concrete bridge decks.

Corbin, Patrick L. (H. L. Langhaar, Adviser), Stresses in composite axisymmetric shells by the finite-difference method.

Fraser, Harvey R., Jr. (R. E. Miller, Adviser), Bifurcation type buckling of generally orthotropic plates.

Frederking, Robert M. (O. M. Sidebottom, Adviser), An experimental and analytical investigation into plasticity of anisotropic metals.

Gain, Brian R. (G. M. Sinclair, Adviser), Parameter representation of dynamic equilibrium in creep and fatigue.

Gallagher, Joseph P. (G. M. Sinclair, R. E. Miller, Advisers), Environmentally assisted fatigue crack growth rates in SAR 4340 steel.

Lehnhoff, Terry F. (R. E. Miller, Adviser), The influence of transverse shear on the small displacement theory of circular plates.

Lilienthal, Paul A. (O. M. Sidebottom, Adviser), An analysis of the torsion problem

with application to the determination of response functions for polyethylene.

Parry, Myron G. (H. L. Langhaar, Adviser), Post-buckling behavior of thin annular plates under torsional loading.

Petroski, Henry J. (D. E. Carlson, Adviser), Controllable states of elastic heat conductors. Sandor, Bela I. (J. D. Morrow, Adviser), Metal fatigue with elevated temperature rest periods.

Schlafer, John L. (O. M. Sidebottom, Adviser), An experimental study of the incremental and total strain theories for non-proportionately loaded thin-walled cylinders.

Smith, Frederick A., Jr. (J. O. Smith, Adviser), Energy-method analysis of effect of transverse bending load on a box-beam bracket with ends restrained from warping.

Vigneron, Frank R. (A. P. Boresi, Adviser), Configuration instability and despin of crossed-dipole satellites due to the earth's gravity field.

Weeks, Richard W., II (M. C. Stippes, Adviser), An exact analysis of the interaction between edge dislocations and a finite surface layer.

Yuan, Robert L. (C. E. Kesler, Adviser), Effect of temperature on the drying of concrete.

UNIVERSITY EXTENSION

ADELMAN, WILLIAM J., Assistant

Professor

Articles

Has this been the election of 1876. *Rebirth*, 3, 1:3-4.

ANDERSON, WENDELL G., Associate

Professor

Books Edited

Positive prescriptions, proceedings of the 5th annual junior high school workshop. North-ern Ill. Univ., DeKalb, 126 pp.

Direction of the junior high school in a new era. Interstate Printers and Pubs., Dan-ville, Ill., 80 pp.

ECKERT, WILLFORD J., Director of

Firemanship Training

Articles

Audience sees diagrams made by lecturer 150 miles away. *Fire Engineering Magazine*, 122, 1:38.

FARLOW, HELEN S., Editor of Information Services

Books

History, The University of Illinois Division of University Extension, 1933-1968: a progress report. The Division of Univer-sity Extension, Champaign, Ill., 90 pp.

Books Edited

State universities in Illinois: a counseling handbook for students, parents, teachers, and counselors. Univ. Ill. Press, Urbana, 115 pp.

HUFFMAN, WARREN J., Professor

See Health and Safety Education.

JOHNSON, ARTHUR L., Assistant Professor

Articles

Young audiences ensembles from five cam-puses. *Statewide Campus*, Feb., p. 2.

Here's an idea: "live musical ensembles will perform for Illinois students." *Ill. Educ.*, 56:398.

Young audiences ensembles from five campuses. *Instrumentalist*, 23, 1:28, 30.

JOHNSON, WALTER M., Professor

Articles

Arts and crafts workshop. In *Leisure hours: fact or fallacy*. Div. Univ. Ext., Champaign, Ill., pp. 41-48.

Reviews

Islamic art and architecture, by Ernest Kuhnelt. *Natl. Art Educ., Assn. J.*, 21, 5:32.

KLEBERG, JOHN R., Instructor

Articles

Police traffic accident investigation and highway safety. *Military Police J.*, 17, 9:14-16.
Training for Illinois sheriffs. *The Natl. Sheriff*, 20, 5:12-13, 22-23.

McLAUGHLIN, JOHN B., Instructor

Articles

The rumor and the police department. *Law and Order*, 16, 5:64-65.

O'CONNOR, JOHN A., Assistant Professor

Articles

Electronics facilitate music education. *State-wide Campus*, Apr., pp. 4-5.

PICKARD, J. RONALD, Professor

See Veterinary Medicine.

SLAYMAN, HERMAN H., Associate Professor

Books

First sessions for the guitar class (student's book). Canyon Press, Cincinnati, O., 84 pp.
First sessions for the guitar class (teachers' manual). *Ibid.*, 180 pp.

WISNIEWSKI, THOMAS J., Assistant Professor

Articles

Can strong education be improved by string teachers? *Lyons Music News*, 16:4.

URBAN PLANNING

GOODMAN, WILLIAM I., Professor

Books

With E. C. Freund

Principles and practice of urban planning. Intl. City Managers' Assn., Wash., D.C., 621 pp.

Articles

Commentary in problems of zoning and land-use regulations. U.S. Natl. Comm. on Urban Problems, Supt. Documents, Wash., D.C., pp. 77-78.

Who should rule in the fringe? In *Rural-urban Fringe Conference Proceedings*, Dept. Agr. Econ., Univ. Ill., Urbana, pp. 6-9.

701: what's wrong; what's right? Bureau of Community Planning, Univ. Ill., Urbana, *Newsletter*, 8, 4:1-4.

HEIFETZ, ROBERT J., Associate Professor

Articles

Residential segregation and the schools. *Urban Review*, 2, 4:30-34.

VETERINARY MEDICINE

ANDERSON, JOHN J. B., Assistant Professor

Articles

Effect of time on distribution of injected radiostrontium in the young pig. *Health Phys.* 15, 3:237-41.

With C. L. Comar

Strontium retention as a function of age in the dog. *Radiat. Res.* 24, 1:153-69.

Reviews

Radiosotopes and ionizing radiation in entomology, Vol. III, Anonymous. *BioScience* 18, 4:343.

Animal function: principles and adaptations, by G. S. Malcolm, G. A. Bartholomew, A. D. Grinnel, G. B. Jorgensen and F. N. White. *J.A.V.M.A.*, 153, 10:1340.

BARRIGA, OMAR O., Research Associate

Articles

Resistencia de las aves a la triquinosis. I. Estudios preliminares sobre le fase intestinal. *Bol. Chile. Parasite.*, 23:33-37.

BEAMER, PAUL D., Professor

Articles

With D. H. Ferris, M. Abou-Youssef, L. Badiali

A note on experimental rabies in the donkey. *Cornell Vet.*, 58:270-77.

BECKER, H. NEIL, Assistant Professor

Articles

With J. R. Pickard, G. W. Meyerholz, M. E. Mansfield

Gastrointestinal parasitism in feeder calves of southern Illinois. *Am. J. Vet. Res.*, 29, 7:1479-82.

BLUMSOM, NIGEL L., Associate Professor

Articles

With J. Baddiley, L. J. Douglas

The biosynthesis of the wall teichoic acid in *Staphylococcus lactis*. *Biochem. J.*, 110: 565-71.

With A. R. Archibald, J. Baddiley

The teichoic acids. In *Avances in enzymology*, ed. by F. F. Nord, Interscience, Pubs., 30:223-53.

BRODIE, BRUCE O., Associate Professor

Articles

Control of bovine trichomoniasis. *Mod. Vet. Pract.*, 49, 6:63-65.

With R. D. Hatch, J. C. Thurmon, B. G. Erwin

A clinical survey of retained fetal membranes and metritis in dairy cows. *Vet. Med./Sm. Ani. Clin.*, 63, 6:607-10.

With L. E. Hanson

Leptospira hardjo infections in cattle. *Proc. 71st Ann. Meet. U.S. Livestock San. Assn.*, pp. 210-15.

CASE, MARVIN T., Assistant Professor

Articles

With L. C. Helper, C. D. Knecht, E. Small

Four cases of canine intestinal carcinoma. *Vet. Med./Sm. Ani. Clin.*, 63:40-47.

With J. Simon

Transmission studies of swine lymphosarcoma: Hematologic and pathologic changes

- in pigs inoculated with whole cell suspensions. *Am. J. Vet. Res.*, 29:263-69.
- With D. F. Disque, J. A. Youngren
Feline infectious peritonitis. *J.A.V.M.A.*, 152:372-75.
- CONROY, JAMES D., Assistant Professor
- Articles
Epidermal cysts and sarcoptic mange. In *Current therapy III, small animal practice*, ed. by Kirk, W. B. Saunders Co., Philadelphia, pp. 263 and 305.
- Melanocystic tumors of domestic animals with special reference to dogs. *Ani. Hosp.*, 4:2-11.
- Alopecias of dogs and cats. *Ibid.*, pp. 200-209.
- Reviews
Atlas of canine and feline dermatoses, by R. M. Schwartzman and F. Kral. *J.A.V.M.A.*, 152:1165.
- DISQUE, DONALD F., Instructor
- Articles
With M. T. Case, J. A. Youngren
Feline infectious peritonitis. *J.A.V.M.A.*, 152:372-75.
- DORNER, JOSEPH L., Assistant Professor
- Articles
A hematologic study of babesiosis of the dog. *Am. J. Vet. Clin. Path.*, 1:67-75.
- With R. E. Olsen, L. J. Weber
Quizzes as teaching aids. *J. Med. Educ.*, 43:941-42.
- DOWNEY, H. FRED, Assistant Professor
- Articles
With E. S. Kirk
Coronary lymph: specific activities in interstitial fluid during uptake of ^{42}K . *Am. J. Physiol.*, 215, 5:1177-82.
- ERWIN, BENNIE G., Instructor
- Articles
With R. D. Hatch, B. O. Brodie, J. C. Thurmon
A clinical survey of retained fetal membranes and metritis in dairy cows. *Vet. Med./Sm. Ani. Clin.*, 63, 6:607-10.
- FERRIS, DEAM H., Associate Professor
- Articles
With L. Badiali, M. Abou-Youssef, P. D. Beamer
A note on experimental rabies in the donkey. *Cornell Vet.*, 58:270-77.
- With J. R. Reilly, L. E. Hanson
Experimental demonstration of the enteric route of infection with *Leptospira grippityphosa* in wild carnivores. *Am. J. Vet. Res.*, 29, 9:1849-54.
- With R. Todorovic, M. Ristic
Soluble antigens of *Plasmodium gallinaceum*. *Trans. Roy. Soc. Trop. Med. Hyg.*, 62: 51-57.
- A tube latex agglutination test for the diagnosis of malaria. *Ibid.*, pp. 58-68.
- Roles of the spleen in acute plasmodial and babesial infections in rats. *Exp. Parasitol.*, 21:354-72.
- Antigens of *Plasmodium gallinaceum*. I. Bio-physical and biochemical characterization of explasmodial antigens. *Am. J. Trop. Med. Hyg.*, 17:685-94.
- Antigens of *Plasmodium gallinaceum*. II. Im-
munoserologic characterization of explasmodial antigens and their antibodies. *Ibid.*, pp. 695-701.
- Factors associated with immunization of mice with soluble serum antigens of *Plasmodium gallinaceum*. *Z. für Tropenmed. und Parasitol.*, 19:110-21.
- Erythrocytic stages of *Plasmodium gallinaceum*. *Veterinar Medizinische Nachrichten*, 2:109-23.
- Significance and application of babesial and plasmodial ectoantigens to comparative medicine. *J.A.V.M.A.*, 153:1888-96.
- Bulletins and Technical Reports
Using the carrel for autotutorial instruction. Civ. Eng. Press, Urbana, 11 pp.
- A study guide to the visceral larva migrans autotutorial single concept film series. Civ. Eng. Press, Urbana, 12 pp.
- FITZGERALD, PAUL R., Professor
- Articles
Effects of ionizing radiation from cobalt-60 on oocysts of *Eimeria bovis*. *J. Parasit.*, 54, 2:233-40.
- GARNER, HAROLD E., Assistant Professor
- Articles
With J. C. Thurmon, F. E. Romack
Excursions of the bovine eyeball during gaseous anesthesia. *Vet. Med./Sm. Ani. Clin.*, 63, 10:967-70.
- Biopsy: surgical method for obtaining large samples of liver, kidney and muscle from cattle. *Am. J. Vet. Res.*, 29, 12:2407-9.
- With J. C. Thurmon
Repair of bilateral fracture of the maxilla, dremaxilla and mandible in a horse. *J.A.V.M.A.*, 152, 9:1402-6.
- HANNAH, HAROLD W., Professor
- Books
With N. G. P. Krausz
Law and court decisions on agriculture. Stipes Pub. Co., Champaign, 465 pp.
- Bulletins and Technical Reports
Illinois fence law. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 977, 14 pp.
- With N. G. P. Krausz
Law for the Illinois farmer. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 986, 92 pp.
- Condemnation: the public taking of Illinois farm land. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ.* 974, 16 pp.
- HANSON, LYLE E., Professor and Head of Department
- Articles
With B. O. Brodie
Leptospira hardjo infections in cattle. *Proc. 71st Ann. Meet. U.S. Livestock San. Assn.*, pp. 210-15.
- With U. K. Sharma, J. Simon
Histologic study of tissue reaction in canaries and chicken embryos infected with a pox agent isolated from parakeets. *Avian Dis.*, 12:594-605.
- With G. T. Woods, R. D. Hatch
Investigation of four outbreaks of acute respiratory disease in swine and isolation of swine influenza virus. *Health Lab. Sci.*, 5, 4:218-24.
- With J. R. Reilly, D. H. Ferris
Experimental demonstration of the enteric route of infection with *Leptospira grippityphosa*

- typhosa* in wild carnivores. *Am. J. Vet. Res.*, 29, 9:1849-54.
- With G. T. Woods, H. E. Rhoades, G. H. Swenson
Acute infectious bovine rhinotracheitis and salmonellosis in a dairy herd. *J.A.V.M.A.*, 152:1530-35.
- With H. A. Reynolds, A. M. Watrach
Development of the nuclear inclusion bodies of infectious laryngotracheitis. *Avian Dis.*, 12, 2:332-47.
- With A. M. Watrach, Marian Watrach
Crystalline aggregates of infectious laryngotracheitis virus. *Virology*, 35, 2:321-23.
- With B. R. Donaldson, W. A. Snyder, G. T. Woods
Serology of New Mexico Javelina (*Peccari angulatus*) for evidence of some zoonotic infections. *Bull. Wildlife Dis. Assn.*, 4:139.
- HATCH, RAY D., Professor**
Articles
With R. C. Meyer
Case study III: Shipping fever in the bovine. *Ill. Vet.*, 11, 2:15-20.
With B. O. Brodie, J. C. Thurmon, B. G. Erwin
A clinical survey of retained fetal membranes and metritis in dairy cows. *Vet. Med./Sm. Ani. Clin.*, 63, 6:607-10.
With G. T. Woods, L. E. Hanson
Investigation of four outbreaks of acute respiratory disease in swine and isolation of swine influenza virus. *Health Lab. Sci.*, 5, 4:218-24.
- HELPER, LLOYD C., Associate Professor**
Articles
With M. T. Case, C. D. Knecht, E. Small
Four cases of canine intestinal carcinoma. *Vet. Med./Sm. Ani. Clin.*, 63:40-47.
With J. A. Sokolowski, R. W. Medernach
Exogenous hormone therapy to control the estrous cycle of the bitch. *J.A.V.M.A.*, 153:425-28.
- HEMBROUGH, FREDERICK B., Instructor**
Articles
With R. P. Link
Capacitance change in the arterial system of swine induced by starvation and refeeding. *Proc. Soc. Exp. Biol. and Med.* 128: 1055-61.
- HUBER, T. L., Assistant Professor**
Articles
Effect of ration on liver oxidation of racemic lactate and of thiamine on blood lactate clearance. *J. Ani. Sci.* 28, 1:98-102.
- HUBER, W. G., Professor**
Bulletins and Technical Reports
Report on the ten-year plan survey by the College of Veterinary Medicine. *Ill. Vet.*, 2:2-5.
- JACKSON, GARY L., Assistant Professor**
Articles
With K. R. Stevens, A. V. Nalbandov
Activity of crude extracts of rat hypothalamus in hypophysectomized assay rats. *Endocrinology*, 83:234-38.
Gonadotropic activity of stalk median eminence extracts in hypophysectomized rats. *Ibid.*, pp. 225-33.
- KNECHT, CHARLES D., Associate Professor**
Articles
Clinical neurologic examination of the dog. Part I. *Ill. Vet.*, 11, 1:2-4.
Clinical neurologic examination of the dog. Part II. *Ibid.*, 2:6-10.
The honor code. *Ibid.*, 3:5, 20.
With E. Small
Clinical neurology. In *Canine medicine*, ed. by Catcott, American Veterinary Publications, Inc., Wheaton, Illinois, pp. 474-502.
With A. G. Schiller, R. Slusher
Technique for removal of Jonas pins from the dog. *J.A.V.M.A.*, 152, 1:51-54.
With E. Small, R. Slusher, H. A. Reynolds
Epiphenic diverticula of the esophagus in a dog. *J.A.V.M.A.*, 152, 3:268-70.
With M. T. Case, L. C. Helper, E. Small
Four cases of canine intestinal carcinoma. *Vet. Med./Sm. Ani. Clin.*, 63:40-47.
- LEVINE, NORMAN D., Professor**
Books
Nematode parasites of domestic animals and of man. Burgess Pub. Co., Minneapolis, Minn., iii + 600 pp.
Books Edited
Natural nidality of diseases and questions of parasitology. Trans. from Russian by F. K. Plous, Jr., Univ. Ill. Press, Urbana, xii + 483 pp. (Original title: Galuzo, I. G., et al., eds. Prirodnaya Ochagovost' Bolezney i Voprosy Parazitologii. Izdat. Akad. Nauk Kazakh. SSR, Alma-Ata.)
- Articles**
Ecology and host-parasite relationship. In *Infectious blood diseases of man and animals*, ed. by Weinman and Ristic, Academic Press. N.Y., pp. 3-21.
Parazitologiya, jej problemy i perspektivy. *Wiadomosci Parazytologiczne, Wroclaw, Poland*, 14:1-17.
Parasites—wildlife and man. *Trans. N. Am. Wildlife & Nat. Res. Conf.*, 33: 337-48.
With F. L. Andersen
Effect of desiccation on survival of the free-living stages of *Trichostrongylus colubriformis*. *J. Parasit.*, 54:117-28.
- Reviews**
Research in protozoology (Vol. 2), ed. by T.-T. Chen. *BioSci.*, 18:741.
Diseases of man acquired from his pets, by B. Bisseru. *Am. J. Trop. Med. Hyg.*, 17: 906-7.
Histocompatibility testing 1967, ed. by E. S. Curtoni, P. L. Mattiuz and R. M. Tosi. *BioSci.*, 18:1152-53.
- LINK, R. P., Professor and Head of Department**
Articles
With J. A. Pickrell, H. E. Rhoades, Jennifer Gossling
Histidine decarboxylase in strains of *Escherichia coli* isolated from normal swine and swine with edema disease and enteric disorders. *Am. J. Vet. Res.* 29, 7:1397-99.
With F. B. Hembrough
Capacitance change in the arterial system of swine induced by starvation and refeeding. *Proc. Soc. Exp. Biol. and Med.* 128: 1055-61.
- LOVELL, JAMES E., Professor and Head of Department**
Articles
Fate of semen in the uterus of the sow:

- histologic study of Endometrium during 27 hours after natural service. *Am. J. Vet. Res.*, 29:609-25.
- With Uria Marinov*
Cytology of the bovine uterine epithelium during the estrous cycle. *Ibid.*, pp. 13-30.
- MANSFIELD, MANFORD E.**, Professor
Articles
With J. R. Pickard, G. W. Meyerholz, H. N. Becker
Gastrointestinal parasitism in feeder calves of southern Illinois. *Am. J. Vet. Res.*, 29, 7:1479-82.
With G. T. Woods, G. Cmarik, Marcella Zinzilieta, G. Marquis
Vaccination of beef calves before weaning with a live-virus bovine myxovirus parainfluenza-3 vaccine. *Ibid.*, pp. 1349-53.
With F. C. Hinds, G. Cmarik, J. E. Zimmerman
Influence of aspiration biopsy of liver on cattle gains and liver vitamin A values. *J. Ani. Sci.*, 27, 2:505-8.
- MARTIN, RUSSELL J.**, Assistant Professor
Articles
With L. J. Held, P. R. Schnurrenberger, K. D. Quist, M. M. Galton
Prevalence of *Salmonella* spp. in domestic animals and wildlife on selected Illinois farms. *J.A.V.M.A.*, 153, 4:442.
With P. R. Schnurrenberger, F. L. Andersen, C. K. Hsu
Prevalence of *Trichinella spiralis* in wild animals on two Illinois farms. *J. Parasit.*, 54:108.
With R. M. Younglove, R. M. Terry, N. J. Rose, P. R. Schnurrenberger
An outbreak of histoplasmosis in Illinois associated with starlings. *Ill. Med. J.*, 132:259.
- MEYER, RICHARD C.**, Associate Professor
Articles
With H. E. Rhoades, S. P. Saxena
The effect of five *Escherichia coli* serotypes on gnotobiotic swine. *Proc. 71st Ann. Meet. U. S. Livestock San. Assn.*, pp. 345-48.
With R. D. Hatch
Case study III: Shipping fever in the bovine. *Ill. Vet.*, 11, 2:15-20.
With G. T. Woods, J. Simon
Experimental exposure of pigs to infectious bovine rhinotracheitis (IBR) virus. *Canad. J. Comp. Med.*, 32, 3:480-82.
- MEYERHOLZ, GEORGE W.**, Assistant Professor
Articles
With M. E. Mansfield, J. R. Pickard, H. N. Becker
Gastrointestinal parasitism in feeder calves of southern Illinois. *Am. J. Vet. Res.*, 29, 7:1479-82.
- Bulletins and Technical Reports**
With L. R. Fryman
The Illinois mastitis control program. *Univ. Ill. Coll. Agr. Coop. Ext. Serv. Circ. 979*, 8 pp.
- MONFORT, THOMAS N.**, Instructor
Articles
A radiographic survey of epiphyseal maturity in thoroughbred foals from birth to three years of age. *Ill. Vet.*, 11, 4:5.
- MYERS, WALTER L.**, Associate Professor
Articles
With D. L. Dawe, D. Segre
Passive transfer of Freund's adjuvant action with IgG from adjuvant-treated rabbits. *Fed. Proc.*, 27:564.
With A. El-Zein, D. Segre
Behavior of equine infectious anemia virus in cell culture and development of a diagnostic test for the disease. *J. Infect. Dis.*, 118:473-80.
- OLSEN, RAYMOND E.**, Assistant Professor
Articles
With L. J. Weber, J. L. Dorner
Quizzes as teaching aids. *J. Med. Educ.*, 43: 941-42.
- PICKARD, J. RONALD**, Professor
Articles
With M. E. Mansfield, G. W. Meyerholz, H. N. Becker
Gastrointestinal parasitism in feeder calves of southern Illinois. *Am. J. Vet. Res.*, 29, 7:1479-82.
- PICKRELL, JOHN A.**, Postdoctoral Fellow
Articles
With H. E. Rhoades, Jennifer Gossling, R. P. Link
Histidine decarboxylase in strains of *Escherichia coli* isolated from normal swine and swine with edema disease and enteric disorders. *Am. J. Vet. Res.*, 29, 7:1397-99.
- REYNOLDS, HARRY A.**, Associate Professor
Articles
With A. M. Watrach, L. E. Hanson
Development of the nuclear inclusion bodies of infectious laryngotracheitis. *Avian Dis.*, 12, 2:332-47.
With C. D. Knecht, E. Small, R. Slusher
Epiphrenic diverticula of the esophagus in a dog. *J.A.V.M.A.*, 152, 3:268-70.
- RHOADES, HARRY E.**, Assistant Professor
Articles
With H. L. Shah
Nannizzia incurvata, Stockdale isolated from soil samples. *Trans. Ill. Acad. Sci.*, 61: 91-93.
With G. T. Woods, L. E. Hanson, G. H. Swenson
Acute infectious bovine rhinotracheitis and salmonellosis in a dairy herd. *J.A.V.M.A.*, 152:1530-35.
With J. A. Pickrell, Jennifer Gossling, R. P. Link
Histidine decarboxylase in strains of *Escherichia coli* isolated from normal swine and swine with edema disease and enteric disorders. *Am. J. Vet. Res.*, 29, 7:1397-99.
With R. C. Meyer, S. P. Saxena
The effect of five *Escherichia coli* serotypes on gnotobiotic swine. *Proc. 71st Ann. Meet. U. S. Livestock San. Assn.*, pp. 345-48.
- RISTIC, MIODRAG**, Professor
Books Edited
With D. Weinman
Infectious blood diseases of man and animals. Special topics and general characteristics. Academic Press, N.Y., 492 pp.
Infectious blood diseases of man and animals. The pathogens, the infections, and the consequences. *Ibid.*, 576 pp.

Articles

Anaplasmosis. In *Infectious blood diseases of man and animals. The pathogens, the infections, and the consequences. Ibid.*, pp. 473-542.

Mechanisms of immunity and prospects for a protective vaccine in bovine anaplasmosis. *Ill. Vet.*, 11:7-10.

With W. F. Schroeder

Autoimmune response and pathogenesis of blood parasite diseases. In *Infectious blood diseases of man and animals. Special topics and general characteristics*, ed. by Weinman and Ristic, Academic Press, N.Y., pp. 63-77.

Blood serum factors associated with erythrocytopenia in calves with anaplasmosis. *Am. J. Vet. Res.*, 29:1991-95.

With A. Zuckerman

Blood parasite antigens and antibodies. In *Infectious blood diseases of man and animals. Special topics and general characteristics*, ed. by Weinman and Ristic, Academic Press, N.Y., pp. 79-122.

With J. P. Kreier

Haemobartonellosis, eperythrozoonosis, grahnellosis and ehrlichiosis. In *Infectious blood diseases of man and animals. The pathogens, the infections, and the consequences*, ed. by Weinman and Ristic, Academic Press, N.Y., pp. 387-472.

With H. Morris

Characterization of serum opsonins in anaplasmosis. *Proc. 5th Natl. Anaplasmosis Conf.*, Stillwater, Okla., pp. 101-4.

With E. Caletti, Alys von Lehmden-Maslin

Serologic detection of a virus of transmissible gastroenteritis of swine and determination of its nucleic acid type. *Am. J. Vet. Res.*, 29:1603-11.

With R. Todorovic, D. H. Ferris

A tube latex agglutination test for the diagnosis of malaria. *Trans. Roy. Soc. Trop. Med. Hyg.*, 62:58-68.

Roles of the spleen in acute plasmodial and babesial infections in rats. *Exp. Parasitol.*, 21:354-72.

Factors associated with immunization of mice with soluble serum antigens of *Plasmodium gallinaceum*. *Z. für Tropenmed. und Parasitol.*, 19:110-21.

Antigens of *Plasmodium gallinaceum*. I. Biophysical and biochemical characterization of explasmodial antigens. *Am. J. Trop. Med. Hyg.*, 17:685-94.

Antigens of *Plasmodium gallinaceum*. II. Immunoserologic characterization of explasmodial antigens and their antibodies. *Ibid.*, pp. 695-701.

Soluble antigens of *Plasmodium gallinaceum*. *Trans. Roy. Soc. Trop. Med. Hyg.*, 62:51-57.

Erythrocytic stages of *Plasmodium gallinaceum*. *Veterinär Medizinische Nachrichten*, 2:109-23.

Significance and application of babesial and plasmodial ectoantigens to comparative medicine. *J.A.V.M.A.*, 153:1888-96.

With K. H. Sibinovic, S. Sibinovic, H. W. Cox
Immuno-genetic properties of babesial serum antigens. *J. Parasit.*, 53:1121-29.

ROMACK, FRANK E., Associate Professor

Articles

Effect of T₃ and T₄ administration on body weight gains. *Proc. 3rd Midwest Conf. on*

the Thyroid, Univ. Missouri, Columbia, p. 115.

With S. P. Arora, E. E. Hatfield,
U. S. Garrigus, H. Motyka

Effect of adaptation to dietary nitrate on thyroxine secretion rate and growth in lambs. *J. Ani. Sci.*, 27, 5:1445-48.

With J. C. Thurmon, H. E. Garner

Excursions of the bovine eyeball during gaseous anesthesia. *Vet. Med./Sm. Ani. Clin.*, 63, 10:967-70.

With H. E. Garner, J. C. Thurmon

Biopsy: surgical method for obtaining large samples of liver, kidney and muscle from cattle. *Am. J. Vet. Res.*, 29, 12:2407-9.

ST. CLAIR, LORENZ E., Professor

Articles

With E. T. Littlelike, R. A. Notzold

Effects of parathyroidectomy of the pig. *Am. J. Vet. Res.*, 29:635-45.

SCHILLER, ALFRED G., Professor

Articles

With C. D. Knecht, R. Slusher

Technique for removal of Jonas pins from the dog. *J.A.V.M.A.*, 152, 1:51-54.

SCHNURRENBERGER, PAUL R., Associate Professor

Articles

With R. A. Masterson, J. H. Russell

The zoonoses in Ohio, 1958-1962. *Ohio St. Med. J.*, 64, 4:462.

With L. J. Held, R. J. Martin, K. D. Quist,
M. M. Galton

Prevalence of *Salmonella* spp. in domestic animals and wildlife on selected Illinois farms. *J.A.V.M.A.*, 153, 4:442.

With R. M. Younglove, R. M. Terry,
N. J. Rose, R. J. Martin

An outbreak of histoplasmosis in Illinois associated with starlings. *Ill. Med. J.*, 132:259.

With R. J. Martin, F. L. Andersen, C. K. Hsu
Prevalence of *Trichinella spiralis* in wild animals on two Illinois farms. *J. Parasit.*, 54:108.

SEGRE, DIEGO, Professor

Articles

Regulation of antibody formation. In *Gammopathies, infections, cancer and immunity*, ed. by Chini, Bonomo, and Sirtori, Carlo Erba Foundation, Milan, Italy, pp. 6-11.

Abrogation of immunologic tolerance as a model for autoimmunity. In *Infectious blood diseases of man and animals*, ed. by Weinman and Ristic, Academic Press, N.Y., pp. 37-61.

Comments on the role of natural antibody in immunologic competence. *J.A.V.M.A.*, 152:746-50.

With D. L. Dawe, W. L. Myers

Passive transfer of Freund's adjuvant action with IgG from adjuvant-treated rabbits. *Fed. Proc.*, 27:564.

With Mariangela Segre

Hemolytic plaque formation by mouse spleen cells producing antibodies to ovalbumin. *Immunochem.*, 5:206-12.

With A. El-Zein, W. L. Myers

Behavior of equine infectious anemia virus in cell culture and development of a diagnostic test for the disease. *J. Infect. Dis.*, 118:473-80.

SEGRE, MARIANGELA, Research Associate

Articles

With D. Segre

Hemolytic plaque formation by mouse spleen cells producing antibodies to ovalbumin. *Immunochem.*, 5:206-12.

SILVERMAN, PAUL H., Professor

See Zoology.

SIMON, JOSEPH, Professor

Articles

With M. T. Case

Transmission studies of swine lymphosarcoma: Hematologic and pathologic changes in pigs inoculated with whole cell suspensions. *Am. J. Vet. Res.*, 29:263-69.

With J. F. Van Vleet, B. V. Hall

Vitamin E deficiency—A sequential light and electron microscopic study of skeletal muscle degeneration in weaning rabbits. *Am. J. Path.*, 52:1067-80.

With G. T. Woods, R. C. Meyer

Experimental exposure of pigs to infectious bovine rhinotracheitis (IBR) virus. *Canad. J. Comp. Med.*, 32:480-82.

With U. K. Sharma, L. E. Hanson

Histologic study of tissue reaction in canaries and chicken embryos infected with a pox agent isolated from parakeets. *Avian Dis.*, 12:594-605.

SLUSHER, RALPH, Assistant Professor

Articles

With C. D. Knecht, A. G. Schiller

Technique for removal of Jonas pins from the dog. *J.A.V.M.A.*, 152, 1:51-54.

With C. D. Knecht, E. Small, H. A. Reynolds

Epiphrenic diverticula of the esophagus in a dog. *J.A.V.M.A.*, 152, 3:268-70.

SMALL, ERWIN, Professor

Articles

Urinary incontinence and atony of the bladder. In *Kirk's current veterinary therapy III*, ed. by Kirk, W. B. Saunders Co., Philadelphia, pp. 647-49.

With C. D. Knecht

Clinical neurology. In *Canine medicine*, ed. by Catcott, American Veterinary Publications, Inc., Wheaton, Ill., pp. 474-502.

With M. T. Case, L. C. Helper, C. D. Knecht

Four cases of canine intestinal carcinoma. *Vet. Med./Sm. Ani. Clin.*, 63:40-47.

With C. D. Knecht, R. Slusher,

H. A. Reynolds
Epiphrenic diverticula of the esophagus in a dog. *J.A.V.M.A.*, 152, 3:268-70.

THURMON, JOHN C., Assistant Professor

Articles

With F. E. Romack, H. E. Garner

Excursions of the bovine eyeball during gaseous anesthesia. *Vet. Med./Sm. Ani. Clin.*, 63, 10:967-70.

With H. E. Garner

Repair of bilateral fracture of the maxilla, dremaxilla and mandible in a horse. *J.A.V.M.A.*, 152, 9:1402-6.

With R. D. Hatch, B. O. Brodie, B. G. Erwin

A clinical survey of retained fetal membranes and metritis in dairy cows. *Vet. Med./Sm. Ani. Clin.*, 63, 6:607-10.

With H. E. Garner, F. E. Romack

Biopsy: surgical method for obtaining large

samples of liver, kidney and muscle from cattle. *Am. J. Vet. Res.*, 29, 12:2407-9.

TODD, KENNETH S., JR., Assistant

Professor

Articles

Weights of black-billed magpies from Southwestern Montana. *Auk*, 85:508-10.

With D. M. Hammond

Life cycle and host specificity of *Eimeria callospermophili* Henry, 1932 from the Uinta ground squirrel, *Spermophilus armatus*. *J. Protozool.*, 15:1-8.

Life cycle and host specificity of *Eimeria larinerensis* Vetterling, 1964 from the Uinta ground squirrel, *Spermophilus armatus*. *Ibid.*, pp. 268-75.

With D. M. Hammond, L. C. Anderson

Observations on the life cycle of *Eimeria bilamellata* Henry, 1932 in the Uinta ground squirrel, *Spermophilus armatus*. *Ibid.*, pp. 732-40.

With B. W. O'Gara

Eimeria montanaensis n. sp. and *Eimeria ernsti* n. sp. (Protozoa: Eimeriidae) from the Rocky Mountain goat, *Oreamnos americanus*. *Ibid.*, pp. 808-10.

TODOROVIC, RADMILO, Research Associate

Articles

With M. Ristic, D. H. Ferris

A tube latex agglutination test for the diagnosis of malaria. *Trans. Roy. Soc. Trop. Med. Hyg.*, 62:58-68.

Roles of the spleen in acute plasmodial and babesial infections in rats. *Exp. Parasitol.*, 21:354-72.

Factors associated with immunization of mice with soluble serum antigens of *Plasmodium gallinaceum*. *Z. für Tropenmed. und Parasitol.*, 19:110-21.

Antigens of *Plasmodium gallinaceum*. I. Bio-physical and biochemical characterization of explasmodial antigens. *Am. J. Trop. Med. Hyg.*, 17:685-94.

Antigens of *Plasmodium gallinaceum*. II. Immunoserologic characterization of explasmodial antigens and their antibodies. *Ibid.*, pp. 695-701.

Soluble antigens of *Plasmodium gallinaceum*. *Trans. Roy. Soc. Trop. Med. Hyg.*, 62: 51-57.

Erythrocytic stages of *Plasmodium gallinaceum*. *Veterinär Medizinische Nachrichten*, 2:109-23.

Significance and application of babesial and plasmodial ectoantigens to comparative medicine. *J.A.V.M.A.*, 153:1888-96.

TWARDOCK, A. ROBERT, Associate

Professor

Articles

With T. G. Lokman, W. J. Coffman,

B. C. Breidenstein, H. W. Norton
Factors affecting potassium-40 measurement in the whole body and body components. Proceedings of a "Symposium on Body Composition in Animals and Man." Columbia, Missouri, 1967. *National Academy of Sciences*, pp. 291-316.

VAVRA, JIRI, Visiting Associate Professor

Articles

Ultrastructural features of *Caudospora simulii* Weiser (Protozoa, Microsporidia). *Folia Parasitologica*, 15:1-9.

With H. P. Bulnheim

Infection by the microsporidian *Octospora effeminans* sp. n., and its sex determining influence in the amphipod *Gammarus duebeni*. *J. Parasit.*, 54, 2:241-48.

Von LEHMNDEN-MASLIN, ALYS, Research Associate

Articles

With E. Caletti, M. Ristic

Serologic detection of a virus of transmissible gastroenteritis of swine and determination of its nucleic acid type. *Am. J. Vet. Res.*, 29:1603-11.

WATRACH, ADOLF M., Professor

Articles

With L. E. Hanson, Marian A. Watrach

Crystalline aggregates of infectious laryngotracheitis virus. *Virol.*, 35, 2:321-23.

With H. A. Reynolds, L. E. Hanson

Development of the nuclear inclusion bodies of infectious laryngotracheitis. *Avian Dis.*, 12, 2:332-47.

WATRACH, MARIAN A., Research Associate

Articles

With A. M. Watrach, L. E. Hanson

Crystalline aggregates of infectious laryngotracheitis virus. *Virol.*, 35, 2:321-23.

WOODS, GEORGE T., Professor

Articles

The natural history of bovine myxovirus parainfluenza-3. *J.A.V.M.A.*, 152:771-77.

With L. E. Hanson, G. H. Swenson, H. E. Rhoades

Acute infectious bovine rhinotracheitis and salmonellosis in a dairy herd. *J.A.V.M.A.*, 152:1530-35.

With R. C. Meyer, J. Simon

Experimental exposure of pigs to infectious bovine rhinotracheitis (IBR) virus. *Canad. J. Comp. Med.*, 32, 3:480-82.

With L. E. Hanson, R. D. Hatch

Investigation of four outbreaks of acute respiratory disease in swine and isolation of swine influenza virus. *Health Lab. Sci.*, 5, 4:218-24.

With M. E. Mansfield, G. Cmarik, Marcella Zinzilieta, G. Marquis

Vaccination of beef calves before weaning with a live-virus bovine myxovirus parainfluenza-3 vaccine. *Am. J. Vet. Res.*, 29, 7:1349-53.

With B. R. Donaldson, W. A. Snyder, L. E. Hanson

Serology of New Mexico Javelina (*Peccari angulatus*) for evidence of some zoonotic infections. *Bull. Wildlife Dis. Assn.*, 4:139.

YOUNGREN, JAMES A., Veterinarian I

Articles

With D. F. Disque, M. T. Case

Feline infectious peritonitis. *J.A.V.M.A.*, 152:372-75.

DOCTORAL DISSERTATIONS

Case, Marvin T. (J. Simon, Adviser), Effects of whole-body irradiation on baby pigs (*Sus scrofa*).

Conroy, James D. (P. D. Beamer, Adviser), Melanoblasts and melanocytes in canine fetal skin and oral mucosa.

Dawe, Donald L. (W. L. Myers, Adviser),

Mechanism of action of Freund's complete adjuvant.

Dorner, Joseph L. (J. Simon, Adviser), Polymorphism of transferrins of bovine, porcine and canine sera as determined by means of acrylamide gel disc electrophoresis.

El-Zein, Abdellatif (W. L. Myers, Adviser), Behavior of equine infectious anemia virus in cell culture and development of a diagnostic test for the disease.

Paganin, Eddo C. (M. Ristic, Adviser), Comparative studies of strains of transmissible gastroenteritis virus.

Pedersoli, Waldir M. (R. P. Link, Adviser), The relationship between estrogen, biologic activity and synthesis of histamine in the rat uterus.

Pickrell, John A. (R. P. Link, Adviser), The definition of the biochemical changes associated with the paramount signs of experimental edema disease in swine.

Popovic, Neven A. (M. Ristic, Adviser), Attenuated and virulent strains of *Anaplasma marginale* in *Dermacentor andersoni*: survival, development, and transmission studies.

Rossi, Charles R. (D. Segre, Adviser), A modified mixed hemadsorption test and its application in the study of the avian leukosis-sarcoma viruses.

Taylor, Paul L. (L. E. Hanson, Adviser), Serologic, pathologic and immunologic features of experimental leptospiral nephritis in dogs.

Wang, Guang-Tsan (N. D. Levine, Adviser), Effects of microbes and gases on the free-living stages of *Trichostrongylus colubri-formis* and *Haemonchus contortus*.

VICE PRESIDENT'S OFFICE

JOHNSON, ELDON L., Vice President

Articles

Education: the cutting edge for social change. *Educ. Record*, 49, 4:359-65.

The tightening tension: The university's external relations. In *Colleges and universities as agents of social change*, Univ. Calif. and Western Interstate Comm. for Higher Educ., Boulder, Colo., pp. 40-54.

New collegiate options through joint action. *Lib. Educ.*, March, pp. 80-87.

ZOOLOGY

ALGER, NELDA E., Assistant Professor

Articles

Individually humidified closed plastic cages for rearing *Anopheles* mosquitoes. *Mosquito News*, 28:121-22.

In vitro development of *Plasmodium berghei* ookinetes. *Nature*, 218:774.

Haemonchus contortus: somatic and metabolic antigens of third and fourth larval and adult stages. *Exp. Parasit.*, 23:187-97.

With G. Meza-Ruiz

First parasitic ecdysis of *Haemonchus contortus* *in vitro* without stimulation by carbon dioxide. *Ibid.*, 22:219-22.

BANKS, EDWIN M., Professor

Articles

With S. F. Fox

Relative aggression of two sympatric rodents: A preliminary report. *Comm. Behav. Biol.*, 2:51-58.

With J. T. Allin

Behavioral biology of the collared lemming *Dicrostonyx groenlandicus* (Traill): I. Agonistic behavior. *Am. Behav.*, 16:245-262.

Behavioral biology of the collared lemming *Dicrostonyx groenlandicus* (Traill): II. Sexual behavior. *Ibid.*, pp. 263-70.

BLEYMAN, LEA K., Research Associate

Articles

Selfing in *Paramecium aurelia*, Snygen 5: Persistent instability of mating type expression. *J. Exp. Zool.*, 165:139-46.

With E. M. Simon

Clonal analysis of nuclear differentiation in *Tetrahymena*. *Develop. Biol.*, 18:217-31.

BROWN, EDWARD H., Assistant Professor

Articles

With Patricia G. Calarco

Cytological and ultrastructural comparisons of t^{12} / t^{12} and normal mouse morulae. *J. Exp. Zool.*, 168:169-86.

DAWSON, PETER S., Assistant Professor

Articles

Xenocide, suicide, and cannibalism in flour beetles. *Am. Naturalist*, 102, 924:97-105.

Developmental and genetic homeostasis in two species of flour beetles. *Evolution*, 22, 2:217-27.

Genetic evidence for an hypothesis concerning evolution in *Tribolium*. *J. Heredity*, 59, 3:188-190.

A mutant gene maintained at high frequency in spite of complete selection against the homozygote. *Genetics*, 59, 4:537-42.

GHENT, ARTHUR W., Associate Professor

Articles

Selected problems in biometry. Part 4. The concept of randomness. *Bios.*, 39, 1:1-20.

With B. P. Hanna

Application of the "broken stick" formula to the prediction of random time intervals. *Am. Midl. Nat.*, 79, 2:273-88.

HEATH, JAMES E., Associate Professor

See Physiology.

HIRSCH, JERRY, Professor

See Psychology.

HOFFMEISTER, DONALD F., Professor

See Natural History Museum.

KITZMILLER, JAMES B., Professor

Articles

Genetic control of insects of public health importance. *Bull. Wild. Hlth. Org.*, 38: 421-38.

Report to the Director General, World Health Organization. *Scientific group on the cytogenetics of vectors of diseases of man*, pp. 1-37.

Cytogenetics of vectors of disease of man. *WHO Technical Report Series*, 398:1-41.

LEE, M. RAYMOND, Associate Professor

Articles

With E. G. Zimmerman

Variation in chromosomes of the Cotton Rat, *Sigmodon hispidus*. *Chromosoma* (Berl.), 24:243-50.

METCALF, ROBERT L., Professor

See Entomology.

NANNEY, DAVID L., Professor

Articles

Patterns of cortical stability in *Tetrahymena*. *J. Protozool.*, 15:109-22.

Ciliate genetics: patterns and program of gene action. *Ann. Rev. Genetics*, 2:121-40.

Cortical patterns in cellular morphogenesis. *Science*, 160:496-502.

Some issues in biology teaching. *BioScience*, 18:104-7.

Biology in the future of man. *Phi Kappa Phi Journal*, 47, 4:3-10.

PHILLIPS, RUTH B., Assistant Professor

Articles

Mating-type alleles in Illinois strains of *Tetrahymena pyriformis*, syngen I. *Genetic Research*, 11:211-14.

PROSSER, C. LADD, Professor

See Physiology and Biophysics.

SALMON, MICHAEL, Assistant Professor

Articles

With H. E. Winn, N. Sorgente

Sound production and associated behavior in triggerfishes. *Pac. Sci.*, 22, 1:11-20.

With S. P. Atsides

Behavioral, morphological and ecological evidence for two new species of fiddler crabs from the Gulf Coast of the United States. *Trans. Wash. Acad. Sci.*, 81:275-90.

Visual and acoustical signalling during courtship of fiddler crabs. *Am. Zool.*, 8, 3: 623-40.

SANDERSON, GLENN C., Professor

Articles

With G. L. Storm

Housing and reproductive performance of an outdoor colony of voles. *J. Mammalogy*, 49, 2:322-24.

Reviews

The wolves of Isle Royale, by L. David Mech. *Ibid.*, 1:167-68.

SILVERMAN, PAUL H., Professor

Articles

With M. E. Schelling

The effect of route of injection upon the development of circulating antibody in response to a variety of antigens. *Immunology*, 14:781-85.

SIMON, ELLEN M., Research Assistant

Professor

Articles

With L. K. Bleyman

Clonal analysis of nuclear differentiation in *Tetrahymena*. *Develop. Biol.*, 18:217-31.

SMITH, PHILIP W., Professor

Articles

An assessment of changes in the fish fauna of two Illinois rivers and its bearing on their future. *Trans. Ill. State Acad. Sci.*, 61, 1:31-45.

Vertebrate animals first discovered in Illinois. *Living Museum*, 30, 4:28-29.

With Dorothy M. Smith

China dolls. *Ibid.*, 8:60-61.

STOCUM, DAVID L., Assistant Professor

Articles

The urodele limb regeneration blastema: A self-organizing system. I. Differentiation *in vitro*. *Develop. Biol.*, 18, 5:441-56.

The urodele limb regeneration blastema: A self-organizing system. II. Morphogenesis and differentiation of autografted whole and fractional blastemas. *Ibid.*, pp. 457-80.

SWEENEY, DARYL C., Assistant Professor

Articles

The anatomical distribution of monoamines in a freshwater bivalve mollusc, *Sphaerium sulcatum* (L.). *Comp. Biochem. Physiol.*, 25:601-13.

DOCTORAL DISSERTATIONS

Barnett, Leland B. (S. C. Kendeigh, Adviser), Seasonal changes in temperature acclimatization of the house sparrow, *Passer domesticus*.

Borst, Daryll C. (M. R. Matteson, Adviser),

A limnological study of Lake of the Woods, Champaign County, Illinois.

Gessaman, James A. (S. C. Kendeigh, Adviser), Metabolism and thermoregulation of the snowy owl, *Nyctea scandiaca*.

Kreutzer, Richard D. (J. B. Kitzmiller, Adviser), Genetic and cytogenetic relationships among certain nearctic anophelines.

Lee, Sue Y. (R. Davenport, Adviser), A histochemical study of the distribution of glycogen, lipids and succinic dehydrogenase in the twitch and tonic fibers of selected vertebrates.

Northcutt, Richard G. (H. M. Smith, Adviser), The telencephalon of the western painted turtle (*Chrysemys picta belli*).

Oppenheimer, John R. (E. M. Banks, Adviser), Behavior and ecology of the white-faced monkey, *Cebus capucinus*, on Barro Colorado Island, C. Z.

Owen, Ray B., Jr. (S. C. Kendeigh, Adviser), Energy requirements of blue-winged teal under free-living and captive conditions.

CHICAGO CIRCLE

ANTHROPOLOGY

BOHANNAN, LAURA A., Associate Professor

Books

With P. Bohannan

Tiv economy. Northwestern Univ. Press, Evanston, 265 pp.

Reviews

Stranger and friend: the way of an anthropologist, by H. Powdermaker. *Amer. Anthropol.*, 70, 3:574-75.

Man's rise to civilization, by P. Farb. *Chicago Trib. Book Rev.*, November 24:12-13.

FREEMAN, SUSAN T., Assistant Professor

Articles

Religious aspects of the social organization of a Castilian village. *Amer. Anthropol.*, 70, 1: 34-49.

Corporate village organization in the Sierra Ministra: an Iberian structural type. *Man*, 3, 3:477-84.

Reviews

Chanzeaux: a village in Anjou, by L. Wylie. *Amer. Anthropol.*, 70, 1:126-27.

GARBARINO, MERWYN S., Assistant Professor

Reviews

American Indian painting of the Southwest and Plains area, by D. Dunn. *Science*, 161:35.

HALL, ROBERT L., Associate Professor

Articles

The Goddard-Ramey Cahokia flight: a pioneering aerial photographic survey. *Wis. Archeol.*, 49:75-80.

HUNT, ROBERT C., Assistant Professor

Articles

Agentes culturales Mestizos: estabilidad y cambio en Oaxaca. *Amer. Indigena*, 28: 595-609.

With Eva Hunt, R. Weitlaner

From parallel-nominal to patri-nominal: changing Cuicatec personal names. *Instituto Nacional de Antopologia e Historia, Anales*, 19:191-223.

Reviews

Tzintzuntzan, by G. Foster. *Amer. Anthropol.*, 70:781-82.

REED, CHARLES A., Professor

Articles

With M. A. Baumhoff, K. W. Butzer, H. Walter, D. S. Boloyan

Preliminary report on the archaeological aspects of the research of the Yale University Prehistoric Expedition to Nubia, 1962-1963. *Fouilles en Nubie (1961-1963)*: 145-56.

Reviews

Comment on: The Pleistocene Epoch and the evolution of man, by C. Emiliani. *Cur. Anthropol.*, 9:41.

SHACK, WILLIAM A., Associate Professor

Articles

The Masqal-Pole: religious conflict and social change in Gurageland. *Africa*, 38: 457-68.

Reviews

Wax and gold: tradition and innovation in Ethiopian culture, by D. Levine. *Ibid.*, 36: 333-34.

Ethiopians speak: Harar, by W. Leslau. *Amer. Anthropol.*, 68:1281.

African law: adaptation and development, ed. by H. Kuper and L. Kuper. *J. Asian and Afr. Stud.*, 2:146-47.

Comment on: Urbanization and social change in Africa, by A. Epstein. *Cur. Anthropol.*, 8: 291-92.

ARCHITECTURE

AMON, RENE, Associate Professor

Articles

With J. Dundurs

Circular plate with supported edge-beam. *J. Eng. Mech. Div., ASCE*, 94, EM3, Proc. Paper 5971, pp. 731-42.

GERSTNER, ROBERT W., Associate Professor

Articles

Stresses in a composite cantilever. *J. Composite Materials*, 2, 4:498-501.

HINDS, GEORGE A., Professor of Architecture

Bulletins and Technical Reports

Perspectives on housing in a developing community, discussion paper series number 9. Center for Urban Studies — Univ. Ill., 174 pp.

WIESINGER, FREDERICK P., Professor of Structural Engineering

Articles

Aids for plastic design of continuous beams. *J. Str. Div., ASCE*, 94, ST11:2651-55.

ARCHITECTURE AND ART ADMINISTRATION

CURRIE, LEONARD J., Dean of College of Architecture and Art

Articles

A new tribute to Walter Gropius. *Arch. Record*, 143, 5:10.

ARCHITECTURE AND ART, HISTORY OF

EDMAN, ROSS, Assistant Professor

Articles

18th century Chinese taste. *Oriental Art*, 14, 3:205-7.

KOEPER, H. F., Associate Professor

Books

Illinois architecture from territorial times to the present. Univ. Chicago Press, 304 pp.

Reviews

Landmark architecture of Allegheny County, Pennsylvania, by James D. Van Trump and Arthur Ziegler, Jr. Survey of architectural history in Cambridge, report two: mid Cambridge, by Antoinette F. Downing, Elisabeth MacDougall and Eleanor Pearson. *J. Soc. Architectural Historians*, 27:305-6.

Minnesota houses: an architectural and historical view, by Roger Kennedy. *Minnesota History*, 41, 2:99-100.

SANDERSON, WARREN, Professor

Articles

Die Frühmittelalterlichen Krypten von St. Maximin in Trier, Paulinus Verlag, Trier, 172 pp. (+4 foldout plans); *Trierer Zeitschrift*, 31:5-172(+4 foldout plans).

BIOENGINEERING PROGRAM

AGARWAL, GYAN C., Assistant Professor

See Systems Engineering.

ARZBAECHER, ROBERT C., Associate Professor

See Information Engineering.

BRODKEY, JERALD S., Assistant Professor

Articles

With L. Stark

New direct evidence against intermittency or sampling in human smooth pursuit eye movements. *Nature*, 218:273.

With L. Stark, R. Arzbaecher, G. Agarwal, D. Hendry, W. D. O'Neill

Status of research in biomedical engineering. *IEEE Trans. Biomed. Eng.*, BME-15:210-31.

CAMPBELL, JOHN A., Assistant Professor

Articles

With P. H. Abbrecht

An analysis of the control of insulin secretion. *Proc. Ann. Conf. Eng. in Med. and Biol.*, 10:29.3.

GOSE, EARL E., Associate Professor

Articles

With A. H. Klopff

Evolutionary pattern recognition networks. *Proc. Hawaii Intl. Conf. Sys. Sci.*, Univ. Hawaii Press, pp. 542-45.

HENDRY, DEREK P., Associate Professor

Articles

With L. Stark, R. Arzbaecher, G. Agarwal,

W. D. O'Neill, J. S. Brodkey
Status of research in biomedical engineering. *IEEE Trans. Biomed. Eng.*, BME-15:210-31.

O'NEILL, WILLIAM D., Assistant Professor

See Systems Engineering.

TROELSTRA, ARNE, Associate Professor

Articles

Detection of time-varying light signals as measured by the pupillary response. *J. Opt. Soc. Amer.*, 58, 5:685-90.

With N. M. J. Schweitzer

Nonlinear analysis of electroretinographic B-wave in man. *J. Neurophysiol.*, 31:588-606.

ZUBER, BERT L., Assistant Professor

Articles

Eye movement dynamics in the cat: the final oculomotor pathways. *Experimental Neurol.*, 20:255-60.

Sinusoidal eye movements from brain stem stimulation in the cat. *Vis. Res.*, 8:1073-79.

Dynamic characteristics of the oculomotor system in the cat. *Proc. 24th Intl. Cong. Physiol. Sci.*, 7:482.

With L. Stark

Dynamic characteristics of the fusional

vergence eye movement system. *IEEE Trans. Sys. Sci. Cyb.*, SSC-4:72-79.

With J. L. Semmlow, L. Stark

Frequency characteristics of the saccadic eye movement. *Biophysical J.*, 8:1288-98.

With R. J. Reinhart

Control of eye position by the lateral rectus muscle in the cat. *Proc. Ann. Conf. Eng. in Med. and Biol.*, 10:25.4.

BIOLOGICAL SCIENCES

ANDERSON, LOUISE, Assistant Professor

Articles

With G. B. Price, R. C. Fuller

Molecular diversity of the ribulose 1,5-diP carboxylase from photo-synthetic micro-organisms. *Science*, 161:482-84.

With L. E. Worthen, R. C. Fuller

The role of ribose 5-P isomerase in regulation of the Calvin cycle in *Rhodospirillum rubrum*. In *Comparative biochemistry and biophysics of photosynthesis*, ed. by Fuller, Jagendorf, Shibata, and Takamiya, Univ. Tokyo Press, pp. 379-86.

BARDACK, DAVID, Assistant Professor

Articles

Fossil vertebrates from the cretaceous of Manitoba. *Canad. J. Earth Sci.*, 5:145-53.

An attack by a grizzly bear in the NWT of Canada. *Animals, London*, 11, 1:8-9.

Belonostomus sp., the first holostean from the Cretaceous Chalk (Cretaceous) of Texas. *J. Paleontology*, 42, 5:1307-9.

The first fossil lamprey: a record from the Pennsylvanian of Illinois. *Science*, 162: 1265-67.

Reviews

Dragons of the air, by H. G. Seeley. *Choice*, 4, 12:1410.

International association for quaternary research: Pleistocene extinction, search for a cause, ed. by Martin and Wright. *Ibid.*, 5, 9:1158.

International association for quaternary research: quaternary paleoecology, ed. by Cushing and Wright. *Ibid.*, 5, 7:820.

Treatise on invertebrate paleontology pt. V, Echinodermata, ed. by Moore. *Amer. Biol. Teacher*, 30, 4:333.

Fossil vertebrates, ed. by Patterson and Greenwood. *Systematic Zoology*, 17, 3: 337-38.

BUHSE, HOWARD E., Assistant Professor

Articles

With I. L. Cameron

A pattern of macromolecular events during microstome macrostome transformation in *Tetrahymena vorax* V₂S. *J. Exp. Zool.*, 132:1-8.

CORLISS, JOHN O., Professor and Head of Department

Articles

The value of ontogenetic data in reconstructing protozoan phylogenies. *Trans. Amer. Micros. Soc.*, 87:1-20.

General characteristics of the blood protists: definition and classification. In *Infectious blood diseases of man and animals*, ed. by Weinman and Ristic, Academic Press, N.Y., pp. 139-47.

With J. Lom

Observations on the fine structure of two

species of the peritrich ciliate genus *Scyphidia* and on their mode of attachment to their host. *Trans. Amer. Micros. Soc.*, 87: 493-509.

With J. Lom, C. Noirot-Timothee

Observations on the ultrastructure of the buccal apparatus in thigmotrich ciliates and their bearing on thigmotrich-peritrich affinities. *J. Protozool.*, 15:824-40.

Reviews

Scanning electron microscopy: applications to materials and device science, by P. R. Thornton. *Trans. Amer. Micros. Soc.*, 87, 4:537.

The marvelous animals—an introduction to the protozoa, by H. Curtis. *Ibid.*, 4:537. Research in protozoology, ed. by Tze-Tuan Chen. *Ibid.*, 2:272-73.

The microstructure of cells, by S. W. Hurry. *Ibid.*, 2:276.

Cell ultrastructure, by W. A. Jensen and R. B. Park. *Ibid.*, 2:276.

Protozoa, ed. by G. W. Kidder. *Ibid.*, 2:276.

The protozoa, by K. Vickerman and F. E. G. Cox. *Ibid.*, 2:277.

Introduction to parasitology, by A. W. Jones. *Ibid.*, 2:277.

EGGERT, DONALD A., Associate Professor

Articles

With T. N. Taylor

Petrified plants from the upper Mississippian of North America. II. *Lepidostrobus fayettevillense* n. sp. *Amer. J. Bot.*, 55:306-13.

GLASSMAN, SIDNEY F., Professor

Articles

New species in the palm genus *Syagrus* mart. *Fieldiana: Botany*, 31:285-99.

Studies in the palm genus *Syagrus* mart. *Ibid.*, 31:363-97.

Syagrus oleracea (mart.) becc. and closely related taxa. *Ibid.*, 32:13-33.

GREENBERG, BERNARD, Professor

Articles

Model for destruction of bacteria in the midgut of blow fly maggots. *J. Med. Ent.*, 5: 31-38.

Micro-potentiometric pH determinations of muscid maggot digestive tracts. *Annals Ent. Soc. Amer.*, 61:365-68.

Gnotobiotic insects in biomedical research. In *Advances in germfree research and gnotobiology*, ed. by M. Miyakawa and T. D. Lucky, II Life Books, Ltd., London, pp. 410-16.

Poland: barriers and purges. *Science*, 160: 1287.

GUTTMAN, HELENE N., Associate Professor

Articles

With E. S. Vitetta

Kinetics of the immune response of rabbits to lower Trypanosomatidae antigens. *J. Gen. Microbiol.*, 56:67.

KERSTER, HAROLD W., Instructor

Articles

Population age structure in the prairie forb, *Liatris aspera*. *Bioscience*, 18:430-32.

With D. A. Levin

Local gene dispersal in *Phlox*. *Evolution*, 22: 130-39.

LEVIN, DONALD A., Associate Professor

Articles

The structure of a polyspecies hybrid swarm in *Liatris*. *Evolution*, 22:352-72.

The genomic constitution of eastern polyploid *Phlox*. *Ibid.*, 22:612-32.

Multiple chromosome triplication in *Liatris*. *Science*, 161:183-84.

The breeding system of *Lithospermum carolinense*: adaptation and counter-adaptation. *Amer. Natur.*, 102:427-41.

With H. W. Kerster

Local gene dispersal in *Phlox*. *Evolution*, 22: 130-39.

NICOLETTE, JOHN A., Assistant Professor

Articles

With M. A. Lemahieu, G. C. Mueller

A role of estrogens in the regulation of RNA polymerase in surviving rat uteri. *Biochem. Biophys. Acta*, 166:403-9.

SHOMAY, DAVID, Associate Professor

Reviews

Human parasitology, by D. M. Jarry. *Choice*, 5, 1:78.

Charles Scott Sherrington; an appraisal, by R. Granit. *Ibid.*, 3:366.

The free-living lower invertebrates, by F. M. Bayer and M. B. Owre. *Ibid.*, 4:518.

The neuron, ed. by H. Hyden. *Ibid.*, 7:810.

Primitive nervous systems, by T. L. Lentz. *Ibid.*, 10:1326.

STARR, THEODORE J., Professor and

Associate Head of Department

Articles

Effect of antinomycin and puromycin on cytochemical staining properties of vaccinia virus. *Tex. Rep. Biol. Med.*, 25:281-93.

The cell's roll in viral infection. *Hosp. Practice*, 3:52-53.

With R. G. Considine

Inhibition of circulating interferon in gnotobiotic and conventional mice by vaccinia virus. *Bact. Proc.*, pp. 100.

Role of RES in interferon tolerance. *Interferon Scientific Memoranda*, Memo #28, Nov. 6.

Role of RES in interferon tolerance. *J. Ret. Soc.*, 4:315-26.

With O. A. Holtermann

Uncoating and development of vaccinia virus in miniature cells induced with extract from marine algae. *Nature*, 216:600-01.

With O. A. Holtermann, M. Kajima

Effects of actinomycin and puromycin on the cytochemical-staining characteristics of vaccinia infected cells. *Bact. Proc.*, p. 110.

With G. C. Lavelle

Interferon response and age-related resistance of germfree mice to mouse hepatitis virus. *J. Ret. Soc.*, 5:422-35.

Effects of cortisone on interferon response of germfree mice to mouse hepatitis virus. *Ibid.*, 5:436-44.

With M. Wagner

Microbial interactions in the gnotobiotic mouse. *Bact. Proc.*, p. 120.

TAYLOR, THOMAS N., Associate Professor

Articles

Application of the scanning electron microscope in paleobotany. *Trans. Amer. Micros. Soc.*, 87:510-15.

With D. A. Eggert

Petrified plants from the upper Mississippian of North America. II. *Lepidostrobus fayettevillense* n. sp. *Amer. J. Bot.*, 55: 306-13.

WAKE, MARVALEE H., Assistant Professor
Articles

Evolutionary morphology of the caecilian urogenital system. I. The gonads and the fat bodies. *J. Morphology*, 126, 3:291-332.

WILEY, ROBERT B., Associate Professor

Reviews

The free-living lower invertebrates, by F. M. Bayer and H. B. Owre. *Trans. Amer. Micros. Soc.*, 87, 2:273-74.

Biology of the invertebrates, by Cleveland Hickman. *Ibid.*, 87, 1:115-18.

Invertebrate zoology, by Paul A. Meglitsch. *Ibid.*, 1:115-18.

Biology of invertebrata, by James H. Wilmoth. *Ibid.*, 1:115-18.

Invertebrate zoology (vol. 1), by Alfred Kaestner. *Ibid.*, 2:274-75.

Natural history of marine animals (2nd ed.), by G. E. Mac Ginitie and Nettie Mac Ginitie. *Ibid.*, 2:275-76.

Invertebrate structure and function, by E. J. W. Barrington. *Ibid.*, 2:277.

The biology of marine animals (2nd ed.), by J. A. Colin Nicol. *Ibid.*, 2:277.

Animals without backbones, vols. I and II, by Ralph Buchsbaum; A biology of lower invertebrates, by W. D. Russell-Hunter. *Ibid.*, 3:537-39.

WILEY, RUTH L., Assistant Professor

Articles

The spiracular morphology of the Hawaiian damselfly *Megalagrion blackburni* (Odonata). *Proc. Hawaiian Ent. Soc.*, 20, 1:213-37.

Reviews

The use of the microscope, by Peter Gray. *Trans. Amer. Micros. Soc.*, 87:276.

BUSINESS ADMINISTRATION

BARTLETT, HALE C., Associate Professor of Management

Articles

Government in aerospace. In *The Encyclopedia of aviation and space sciences*, New Horizons Pubs., Chicago, 6:1000-10.

Jumbo jets: airline delight or dilemma? In *A new measure of responsibility for marketing*, Amer. Marketing Assn., June Conf. Proceedings, series no. 27, pp. 345-52.

BAUM, BERNARD H., Associate Professor of Management and Sociology

Books

With R. W. French

Basics for business. Whitehall Co., Chicago, 426 pp.

Articles

With T. Whisler, H. Meyer, P. Sorensen

Centralization of control: an empirical study of its meaning and measurement. In *Control in organizations*, ed. by A. S. Tannenbaum, McGraw-Hill Book Co., N.Y., pp. 283-305.

With R. H. Goodin

The effective de-specialization of jobs: a case study. *Public Personnel Rev.*, 29, 4: 222-26.

FRENCH, ROBERT W., Staff Associate

Books

With B. H. Baum

Basics for business. Whitehall Co., Chicago, 426 pp.

GLUSS, BRIAN, Associate Professor

Articles

Some new statistics for evaluating and predicting the support performance of complex multi-echelon logistics systems. In *Large scale provisioning systems*, co-authored with Paul Brock, English Universities Press, pp. 467-82.

KENT, LEONARD, Professor

Articles

Problems of a new product introduction in the framework of decision analysis. *ASA 1968 Proceedings*, pp. 177-80.

CHEMISTRY

BANGERTER, BENEDICT W., Assistant Professor

Articles

With S. I. Chan

Proton magnetic resonance study of the binding of purine to polyuridylic acid. *Biopolymers*, 6:983-91.

A proton magnetic resonance study of the interaction of adenosine with polyuridylic acid: evidence for both adenine-uracil base-stacking and base-pairing. *Proc. Natl. Acad. Sci. U.S.A.*, 60:1144-51.

BOYER, JOSEPH H., Professor

Articles

With J. D. Woodyard

Deoxygenation of organic nitrenes. *J. Org. Chem.*, 33:3329.

With P. J. A. Frints

Isomerization of carbodiimides into cyanamides. *Tetrahedron Letters*, p. 3211.

Nitrosoazomethine derivatives. Oxidation of amidoximes. *J. Org. Chem.*, 33:4554.

With W. K. Krueger, R. Modler

The formation of 2,6-diphenylpyridazine and 2,5-diphenyl-pyrole from α -styryl azide. *Tetrahedron Letters*, p. 5979.

BROWN, THOMAS H., Associate Professor

Articles

Quadratically convergent iteration procedure for self-consistent calculations. *J. Chem. Phys.*, 49, 5:2291-94.

CARLIN, RICHARD L., Associate Professor

Books Edited

Transition metal chemistry. A series of advances (Vol. 4). Marcel Dekker, Inc., N.Y., 355 pp.

EARGLE, DOLAN H., JR., Assistant Professor

Articles

Electron paramagnetic resonance. *Anal. Chem.*, 40:303R.

With W. B. Moniz

Anion-radicals of polyphenyl siloxanes. *J. Poly Sci.*, A-1:5530.

FREEMAN, WADE A., Instructor

Articles

With C. F. Liu

Stereochemistry of complexes of multidentate

ligands. II. Geometrical and optical isomers of bis (2,3-diamino-propionato) cobalt (III) ion. *Inorg. Chem.*, 7:764-68.

KAGAN, JACQUES, Associate Professor

Articles

Luteolin 7-glucoside, the flavonoid pigment of *Heliotropium tenellum*. *Phytochem.*, 7: 505-6.

The flavonoid pigments of *Liatris spicata*. *Ibid.*, 7:1205-7.

With H. B. Kagan

The dehydration of coronopilin. *J. Org. Chem.*, 33:2207-11.

LIU, CHUI FAN, Professor

Articles

With W. Freeman

Stereochemistry of complexes of multidentate ligands. II. Geometrical and optical isomers of bis (2,3-diamino-propionato) cobalt (III) ion. *Inorg. Chem.*, 7:764-68.

With L. N. Schoenberg, D. M. Cooke

Nuclear magnetic resonance determination of the absolute configuration of complexes of cobalt (III) with asymmetric tetradentate ligands. *Ibid.*, p. 2386.

With M. W. S. Chu

Cobalt (III) complexes of β -aminethylimino-diacetic acid. *Inorg. Chem.*, 7:2453.

MORIARTY, ROBERT M., Professor

Articles

With A. Knoasiewicz, A. Maccoll, A. Loudon

The mass spectra of some C₉ substituted cholesteryl derivatives. *J. Mass Spectrometry*, 1:53.

ROCEK, JAN, Professor

Articles

With A. E. Radowsky

Chromic acid oxidation of 1-methylcyclobutanol: The first example of a direct oxidation of a tertiary alcohol. *Tetrahedron Letters*, p. 2835.

The role of chromium (IV) in oxidations by chromic acid. The oxidative cleavage of cyclobutanol. *J. Am. Chem. Soc.*, 90:2986.

With P. Muller

Laboratory application of a chemical reactor column. The synthesis of perdeuteriotropilidene. *J. Org. Chem.*, 33:3001.

SACKHEIM, GEORGE I., Assistant Professor

Books

With R. Schultz

Chemistry for the health sciences. The Macmillan Co., N.Y., 470 pp.

WALTER, ROBERT I., Professor

Articles

With R. D. Allendoerfer, G. Smith

The A₂B₂ proton nuclear magnetic resonance spectra of *para*-substituted anilines, diphenylamines, and triphenylamines. *J. Phys. Chem.*, 72:1217-22.

An apparatus for large-scale sublimation. *J. Chem. Educ.*, 45:538.

Laboratory experiments for the introductory chemistry course. *Ibid.*, pp. 672-73.

COMPUTER CENTER

BROWN, THOMAS H., Associate Professor

See Chemistry.

GYLYS, VYTAS B., Assistant Professor

Articles

With C. M. Knop

Radiation conductance of an axial slot on a dielectric coated cylinder. *Radio science*, 3, 4:391-95.

CRIMINAL JUSTICE, ADMINISTRATION OF

BILEK, ARTHUR J., Associate Professor

Bulletins and Technical Reports

Survey of the rangers of the Forest Preserve District of Cook County. President of the Board of Commissioners of Cook County, Chicago, 283 pp.

NICOL, JOSEPH D., Professor

Articles

Present status in criminalistics. In *Law enforcement science and technology*, ed. by Yefsky, Thompson Book Co., Wash., D.C., pp. 245-46.

WEBSTER, JOHN A., Associate Professor

Reviews

Community relations and riot prevention, by Raymond M. Momboisse. *Issues in Criminology*, 4, 1:248.

ECONOMICS AND FINANCE

ELWERT, BERT E., Associate Professor

Articles

Social and ethical problems of marketing planning. In *Marketing and the new science of planning*, ed. by R. L. King, 1968 Proceedings, American Marketing Assn., Denver, pp. 535-40.

GRAMPP, WILLIAM D., Professor

Articles

An economic remedy for airport congestion. *Bus. Horizons*, 11, 5:21-30.

KOSOBUD, RICHARD F., Associate Professor

Articles

With H. Theil

How informative are consumer buying intentions surveys? *Rev. Econ. and Stat.*, 50, 1:50-59.

MILLER, OSCAR, Associate Professor

Reviews

The U.S. balance of payments and capital flows, by John D. Hogan. *Choice*, 5, 2:234. American banking structure, by Gerald C. Fischer. *Ibid.*, 10:1337.

REID, SAMUEL R., Associate Professor

Books

Mergers, managers, and the economy. McGraw-Hill Book Co., N.Y., 302 pp.

RICHMAN, RAYMOND L., Professor

Articles

Real estate tax reform as a solution to urban problems. In *Hearings before the National Commission on Urban Problems*, 1:343-52.

SINAI, ALLEN L., Assistant Professor

Articles

The role of rental price in distributed lag investment functions: a micro-econometric approach. *Amer. Stat. Assn. Proc.*, Bus. and Econ. Stat. Sect., pp. 403-15.

ENERGY ENGINEERING

HARTNETT, JAMES P., Professor and Head of Energy Engineering

Books Edited

Advances in heat transfer. Academic Press, N.Y.-London, 5, 538 pp.

Analytical heat diffusion theory. *Ibid.*, 685 pp.
 Proceedings 2nd All-Soviet Union Conference on Heat and Mass Transfer, University Microfilm Library Services, Ann Arbor, 1, 450 pp.

Ibid., 2, 500 pp.

Ibid., 3, 495 pp.

Ibid., 4, 381 pp.

Ibid., 5, 796 pp.

Ibid., 6, 672 pp.

Ibid., 7, 304 pp.

Articles

With Y. Taitel

On the application of Rosseland approximation and solution based on series expansion of the emission power to radiation problems. *AIAA Journal*, 6:80-89.

Equilibrium temperatures in a boundary layer flow over a flat plate of absorbing-emitting gas. *Trans. ASME, J. Heat Transfer*, 90, 2:257-66.

With A. L. Laganelli, W. F. Ames

On the analysis of transpiration cooling in a laminar boundary layer with solid wall upstream effects. *Ibid.*, 6, 2:192-97.

With C. S. Liu, H. A. Simon

Comparison of binary couette flow predictions with binary boundary layer results for hydrogen injected into carbon-dioxide and nitrogen free streams. *Proceedings 3rd All-Soviet Union Conference on Heat and Mass Transfer*, Minsk, B.S.S.R., U.S.S.R., 1:190-207.

With A. L. Laganelli

Mass transfer cooling on a porous flat plate in carbon-dioxide and air streams. *Trans. ASME, J. Eng. Ind.*, 90, 4:596-600.

CHOW, JOSEPH C. F., Assistant Professor

Articles

With Julia T. Apter

Wave propagation in a viscous incompressible fluid contained in flexible viscoelastic tubes. *J. Acoust. Soc. Amer.*, 44:437-43.

With M. E. Clark

Theoretical and experimental analyses of wave propagation in an initially stretched viscous-fluid-filled viscoelastic tube. *Reports 6th Intl. Cong. Acoustics*, Tokyo, Japan, 4, G:5-8.

Dispersion and attenuation of sound in a highly concentrated suspension. *Ibid.*, 5, J:81-84.

CHUNG, PAUL M., Professor

Articles

With J. F. Holt, S. W. Liu

Merged stagnation shock layer of non-equilibrium dissociating gas. *AIAA Journal*, 6, 12:2372-79.

COGLEY, ALLEN C., Assistant Professor

Articles

With W. G. Vincenti, S. E. Gilles

Differential approximation for radiative transfer in a nongrey gas near equilibrium. *AIAA Journal*, 6, 3:551-53.

KIEFER, JOHN H., Associate Professor

Articles

Classical isotope effect in vibrational relaxation: the relaxation of H₂ and D₂. *J. Chem. Phys.*, 48, 5:2332-37.

With R. W. Lutz

Effect of oxygen atoms on the vibrational relaxation of oxygen. *11th Symposium on Combustion*, The Combustion Institute, pp. 67-74.

MINKOWYCZ, WOŁODYMR J., Associate Professor

Articles

With E. M. Sparrow, E. R. G. Eckert

Thermodynamic coupling in combined heat and mass transfer processes. *Proceedings 2nd All-Soviet Union Conference on Heat and Mass Transfer*, Minsk, B.S.S.R., U.S.S.R., 2:3-25.

With E. M. Sparrow

Condensation heat transfer in a forced and free convection boundary layer flow. *Ibid.*, 9:370-91.

PIERSON, EDWARD S., Assistant Professor

Articles

Liquid-metal generator design and performance studies. *Proceedings of International Symposium on Magnetohydrodynamic Electrical Power Generation*, Warsaw, Poland, 6:24-30.

SAXENA, SATISH C., Professor

Articles

With V. K. Saxena

Measurement of the thermal conductivity of neon using hot-wire-type thermal diffusion columns. *J. Chem. Phys.*, 48, 12:5662-67.

Measurement of the thermal conductivity of helium using hot-wire-type thermal diffusion column. *Brit. J. Appl. Phys. (J. Phys. D.)*, 1, 2:1341-51.

Measurement of the thermal conductivity of argon using hot-wire-type thermal diffusion columns. *Chem. Phys. Letters*, 2, 1:44-46.

Gas mixture separation by thermal diffusion column. *Zeit. Für Naturforsch.*, 23A, 3: 471-72.

With G. P. Gupta

Thermal conductivity of binary, ternary and quaternary mixtures of polyatomic gases. *Natl. Bur. of Stand., Spec. Pub.*, 302: 605-13.

Calculation of viscosity and diffusion coefficients of nonpolar gas mixtures at ordinary pressures. *A.I.Ch.E. J.*, 14, 3:519-20.

With S. Mathur, P. K. Tondon

Thermal conductivity of gas mixtures: D₂-Xe, D₂-Ne-Kr, D₂-Ne-Ar and D₂-Ar-Kr-Xe. *J. Phys. Soc. Japan*, 25, 2:530-35.

With P. K. Tondon

Calculation of viscosities of mixtures containing polar gases. *Indian J. Pure and Appl. Phys.*, 6, 9:475-78.

Thermal conductivity of multi-component mixtures of rare gases. *Proc. 4th symposium on thermophysical properties*, pp. 398-404.

Modification of Brokaw's method for calculating viscosity of mixtures of gases. *I. & E. C. Fundamentals*, 7:314.

Calculation of thermal conductivity of polar-nonpolar gas mixtures. *Appl. Sci. Res.*, 19:163-70.

With V. K. Saxena, V. P. S. Nain

Thermal diffusion factors from the measure-

ments on a trennschaukel: Ne-Ar and Ne-Xe. *J. Chem. Phys.*, 48, 8:3681-85.

With C. M. Kachhava

Semi-empirical formulas for thermal expansion and Grüneisen constant of ionic crystals. *J. Appl. Phys.*, 39, 6:2973-75.

With S. Raman, W. W. Watson

Separation of isotopic mixtures of polyatomic gases by thermal diffusion columns: interpretation of data on oxygen. *J. Chem. Phys.*, 48, 7:2920-23.

With B. P. Mathur

Measurement of the concentration diffusion coefficient for He-Ar and He-Kr by a two-bulb method. *Appl. Sci. Res.*, 18: 325-35.

With G. P. Gupta, S. Mathur

Certain methods for calculating thermal conductivity of multi-component mixtures involving polyatomic gases. *Def. Sc. J. (India)*, 18, 4:195-204.

With J. M. Gandhi

Correlated thermal conductivity data of rare gases and their binary mixtures at ordinary pressures. *J. Chem. Eng. Data*, 13, 3: 357-61.

Measurement of thermal conductivity of gases. *Natl. Bur. of Stand., Spec. Pub.*, 302: 539-46.

On high temperature thermal conductivity of rare gases and gas mixtures. *Trans. ASME*, 90, C, 3:319-24.

SIMON, HAROLD A., Associate Professor

Articles

With C. S. Liu, J. P. Hartnett

Comparison of binary couette flow predictions with binary boundary layer results for hydrogen injected into carbon-dioxide and nitrogen free streams. *Proceedings 3rd All-Soviet Union Heat Transfer Conference*, Minsk, B.S.S.R., U.S.S.R., 1:190-207.

SZEPE, STEPHEN, Associate Professor

Articles

With O. Levenspiel

Optimal temperature policies for reactors subject to catalyst deactivation—I. Batch reactor. *Chem. Eng. Sci.*, 23:881-94.

ENGLISH

BENNETT, JOSEPHINE W., Visiting Professor

Articles

Benson's alleged piracy of Shakespeare's sonnets and of some of Jonson's works. *Studies in Bibliography*, 21:235-48.

New techniques of comedy in *All's well that ends well*. *Shakespeare Q.*, 18:337-62.

John Morer's Will: Thomas Linacre and Prior Sellyng's Greek teaching. *Studies in the Renaissance*, 15:70-91.

BILLIAR, DONALD E., Assistant Professor

Reviews

Poems of Arthur Hugh Clough, ed. by A. L. P. Norrington. *Choice*, 5:1304.

Arthur Hugh Clough: a descriptive catalogue, by Richard M. Gollin, others. *Choice*, 5: 1426.

BLUM, IRVING D., Associate Professor

Reviews

New rhetorics, ed. by Martin Steinman. *Coll. Comp. and Commun.*, 19:42-43.

BROWNING, PRESTON M., JR., Instructor

Articles

Flannery O'Connor and the grotesque recovery of the holy. In *Adversity and grace: studies in recent American literature*, ed. by Nathan A. Scott, Jr., Univ. Chicago Press, pp. 133-61.

CARROLL, PAUL, Visiting Professor

Books

The poem in its skin. Big Table Books, Follett Pub. Co., Chicago, 262 pp.

Books Edited

The young American poets. Big Table Books, Follett Pub. Co., Chicago, 512 pp.

Poems

In an Ozark flight over Iowa. *Paris Review*, Winter Quarter, pp. 67-68.

CONLEY, JOHN A., Professor

Articles

William Dunbar: additions to and corrections of *O. E. D.* and *D. O. S. T. Notes and Queries*, N.S., 15:169-72.

FIELDS, BEVERLY, Assistant Professor

Books

Reality's dark dream: dejection in Coleridge. Kent State Univ. Press, Kent, Ohio, 195 pp.

FLUDAS, JOHN P., Instructor

Reviews

Brecht's Tradition, by Max Spalter. *Genre*, 1, 2:164-65.

GRIEST, GUINEVERE L., Associate Professor

Reviews

The equivocal virtue: Mrs. Oliphant and the victorian literary market place, by Vineta and Robert A. Colby. *Modern Philology*, 65:415-17.

GROSS, LAILA, Assistant Professor

Articles

Oral-formulaic uses and meaning of *Riote* in the alliterative *Morte Arthure*. *Annuaire Medievale*, 9:98-102.

HERRON, DALE S., Assistant Professor

Articles

Poetic vision in two sonnets of Milton. *Milton Newsletter*, 2:21-29.

KARANIKAS, ALEXANDER, Professor

Articles

The lost sport of double running. *NH Profiles*, 17:17-18, 45-47.

Poems

For Dimitri Cheronis. *Chicago Tribune Sunday Mag.*, November 3, p. 16.

KIRK, CLARA M., Visiting Professor

Books Edited

With R. Kirk

The Altrurian romances, by W. D. Howells. (Text established by Scott Bennett.) Indiana Univ. Press, Bloomington, 494 pp.

KIRK, RUDOLF, Visiting Professor

Books Edited

With Clara Kirk

The Altrurian romances, by W. D. Howells. (Text established by Scott Bennett.) Indiana Univ. Press, Bloomington, 494 pp.

KOGAN, BERNARD R., Professor

Reviews

The Huxleys, by Ronald W. Clark; This tireless moment, by Laura Archera Huxley; Aldous Huxley, by John Atkins. Chicago Sunday *Sun-Times*, Pt. 3. p. 4.

LENFEST, DAVID S., Assistant Professor

Articles

A checklist of illustrated editions of "Gulliver's Travels," 1727-1914. *The Papers of the Bibliographical Society of America*, 62, First Quarter, pp. 85-123.

LEVINE, EDWIN B., Professor

Articles

With A. LaVonne Ruoff

Landor's letters to the Reverend Walter Birch. *BJRL*, 51, Fall, pp. 200-61.

MAKKAI, ADAM, Assistant Professor

Articles

Strukturalista iranyzatok a modern nyelvészeten (Structuralist movements in modern linguistics). *Magyar Muhely*, 7, 27:12-35.

Six poems by e. e. cummings (in Hungarian verse translation). *Ibid.*, 7, 28:30-31.

Socio-linguistics for a just peace in the Danubian Basin. In *Studies for a new central Europe*, Series 2, No. 2, pp. 18-31.

A Rokonszenvi szerzodes (The sympathetic contract). *Uj Latohatar* (New Horizon), 9, 4:358-66.

Reviews

The phonology and morphology of Ulu Muar Malay, by Rufus S. Hendon. *Amer. Anthropol.*, 70, 2:43.

MARDER, LOUIS, Professor

Articles

Reflections and suggestions on Shakespeare scholarship. *SNL*, 18, 1:1-3.

Shakespeare glossaries: 1710-1948. *SNL*, 18, 3:22-23.

The authorship controversy. *Ibid.*, 2:10.

Sex in Shakespeare. *Ibid.*, 2:10-11.

The new Norton-Hinman standard folio: its aim, background, and predecessors. *Ibid.*, 6:31-33.

First folio reproductions past and present: A brief (descriptive) bibliography. *Ibid.*, 6:33-34.

Hardin Craig—Shakespeare scholar emeritus: 1875-1968. *Ibid.*, 6:43-44.

Hamlet in Yugoslavia. *Ibid.*, 6:44.

MILLS, RALPH J., JR., Professor

Books Edited

Selected letters of Theodore Roethke. Univ. Washington Press, Seattle, 273 pp.

Articles

The poetry of James Dickey. *Tri-Quarterly*, 11, Winter, pp. 231-42.

Trance and craft: introductory notes on Robert Graves' poetry. *Poem*, 2, March, pp. 45-65.

Reviews

The works of Anne Bradstreet; The poems of Stephen Crane; D. H. Lawrence: poems. *Poetry*, 112, 2:127-30.

A:1-12, by Louis Zukofsky; Selected poems, by Karl Shapiro. *Modern Age*, 12, 4:423-26.

PEBWORTH, TED-LARRY, Assistant Professor

Articles

Aunt Loda's legacy. *La. Folklore Miscellany*, 2, 4:24-33.

RUNYAN, HARRY J., Professor

Reviews

Justice hunger: a short novel and nine stories, by Meyer Liben. *Choice*, 5, 2:195-96.

The curious death of the novel: essays in American literature, by Louis D. Rubin, Jr. *Ibid.*, 4:486-87.

Tough guy writers of the thirties, ed. by David Madden. *Ibid.*, 5-6:624.

RUOFF, A. LAVONNE, Assistant Professor

Articles

With E. B. Levine

Landor's letters to the Reverend Walter Birch. *BJRL*, 51, Fall, pp. 200-61.

SANDLER, FLORENCE R., Assistant Professor

Articles

Dickens and Langland in adjudication upon Meed. *The Victorian Newsletter*, 33:53-56.

SHIPLEY, JOHN BURKE, Associate Professor

Articles

The authorship of *The Cornish squire*. *PQ*, 47, 2:145-56.

A note on David Garrick's correspondence. *N & Q*, 213, 6:220-21.

The authorship of *The touch-stone* (1728). *PBSA*, 62, 2:189-98.

Ralph, Ellys, Hogarth, and Fielding: the cabal against Jacopo Amigoni. *ECS* 1, 4:313-31.

James Ralph's pamphlets, 1741-1744. *The Library*, 19:130-46.

Two Voltaire letters: to the 3rd Earl of Bute and to the duc de Richelieu. *Studies on Voltaire and the Eighteenth Century*, 62:7-11.

A new Carlyle letter. *English Studies*, 49, 5:441-44.

The Rev. Mr. Charles Churchill and Miss Carr, again. *N & Q*, 213, 12:464-65.

SORENSEN, GERALD C., Assistant Professor

Reviews

Northrop Frye in modern criticism, ed. by Murry Krieger. *Genre*, 1, 2:158-60.

STAR, MORRIS, Assistant Professor

Books

Contributing Scholar to: Herman Melville edition of works. Northwestern University Press and the Newberry Library.

STERN, FREDERICK C., Instructor

Articles

Pyrrhus, Fenians and Bloom. *James Joyce Q.*, 5, 3:211-28.

Eleven hours in Chicago. *The Nation*, 206, 17:533-35.

STRONKS, JAMES B., Professor

Articles

On W. D. Howells' *A modern instance*. *Amer. Literary Realism*, 4:87-89.

A Poe source for Faulkner? *Poe Newsletter*, 1:11.

Reviews

The middle western farm novel in the twen-

tieth century, by Roy W. Meyer. *Modern Philology*, 65:430-31.

The New York City sketches of Stephen Crane, ed. by R. W. Stallman and E. R. Hagemann. *Studies in Short Fiction*, 5: 195-96.

Years of transition: "The Dial," 1912-1920, by Nicholas Joost. *J. Ill. State Hist. Soc.*, 61:204-5.

THALE, MARY, Assistant Professor

Articles

T. S. Eliot and Mrs. Browning on the metaphysical poets. *CLA Journal*, 22:255-58.

The moviegoer of the 1950's. *Twentieth Century Literature*, 14:84-89.

VEST, EUGENE B., Professor

Articles

Names on the ocean bottom, or some observations on the invisible landscape. *Names*, 16, 2:79-88.

Reviews

Shakespeare and the classical tradition: a critical guide to commentary, 1660-1960, by John W. Velz. *Choice*, 5, 10:1292.

Shakespeare and the common understanding, by Norman Rabkin. *Ibid.*, 7:779.

Shakespeare's derived imagery, by John Erskine Hankin. *Ibid.*, 5-6:622.

WEISS, SAMUEL A., Professor

Articles

The ordeal of Malcolm X. *South Atlantic J.*, 63:53-63.

Reviews

Black power and urban unrest, by Nathan Wright. *Michigan Qt. Rev.*, 7:58-59.

Black power, by S. Carmichael and C. Hamilton. *Chi. Jewish Forum*, 26:300-01.

Soul on ice, by Eldridge Cleaver. *Ibid.*, 27: 38-39.

WILDMAN, EUGENE, Instructor

Poems

The subway singer. In *The young American writers*, ed. by R. Kostelanetz, Funk and Wagnalls, N.Y., pp. 353-65.

Ordeal as game. *Tri-Quarterly*, Spring, 11: 145-62.

Reality theater in Chicago. *Chicago Review*, Spring, 20, 2:81-92.

Process and design as value. *Northwest Review*, 10, 1:74-87.

Anthology of Concretism. *Chicago Review*, 19, 4:1-144.

The psychology of being a spectator. *De Tafelronde*, December, 13, 3 & 4:21-27.

Viet Hut. *Dramatika II*, October, 2:38-39.

Message, not message. *Carleton Miscellany*, Spring, 9, 2:98-100.

Reviews

A tale of two cities, by Emmet Williams. *Chicago Review*, 20, 2:99-104.

WILLETT, MAURITA, Associate Professor

Articles

The letter A, Gules, and the black bubble. In Melville and Hawthorne in the Berkshires, ed. by Howard Vincent, Kent State Univ. Press, Kent, Ohio, pp. 70-78.

Dostoevsky and romantic realism: a study of Dostoevsky in relation to Balzac, Dickens, and Gogol, by Donald Fanger. *Genre*, 1, 2:166-67.

WINE, MARTIN, Professor

Articles

Reprint of "Spenser's 'Sweete Themmes': Of Time and the River." In *Spenser: a collection of critical essays*, ed. Harry Berger, Jr., Prentice-Hall, Englewood Cliffs, N.J., pp. 40-46.

WRIGHT, ELIZABETH V., Professor

Articles

With G. Hendrick

Bibliography of short fiction explications, 1966. *Studies in Short Fiction*, 4:379-412.

Bibliography of short fiction explications, 1967. *Studies in Short Fiction*, 5:407-50.

Reviews

Night in funland, by William Peden. *Choice*, 5, 7:779.

An approach to Paterson, by Walter Scott Peterson. *Amer. Qt.*, 20, Summer, p. 375.

The musket and the cross, by Walter D. Edmonds. *Choice*, 5, Fall-Winter, p. 1130.

An hour of last things and other stories, by George P. Elliott. *Choice*, 5, December, p. 1306.

FRENCH

HALLOWELL, ROBERT E., Professor

Articles

"J'ayme mieux embrasser la gloire des morts"—une ode inconnue de Jodelle. *BHR*, 30, 1:133-38.

LEIN, MARIE E., Professor

Articles

Persistence et renouveau du gothique en France avant Chateaubriand. *Mod. Philol.*, 66, 2:121-35.

LOMBARD, CHARLES M., Associate Professor

Articles

The French Romantics in America. *BB*, 25, 4:25-29.

Mme. de Staël and nationality in American literature. *RLC*, 41, 2:101-6.

Lamartine's political reputation in America. *KFLQ*, 13, 5:80-89.

Harriet B. Stowe and French Romanticism. *CLAJ*, 2, 3:236-40.

GEOGRAPHY

CUTSHALL, ALDEN, Professor

Reviews

Shifting cultivation in Southeastern Asia, by J. E. Spencer. *J. Geog.*, 67:125-26.

The monsoon lands of Asia, by R. R. Rawson. *Ibid.*, pp. 326-27.

Japan advances: a geographic study, by Prue Dempster. *Ibid.*, pp. 452-55.

DRAINE, EDWIN H., Associate Professor

Articles

The development of industrial parks in Metropolitan Chicago. *Commerce*, 65, 6:35 ff.

FINNEY, MILDRED I., Associate Professor

Reviews

Introduction to physical geography, by H. M. Kendall, R. M. Glendenning, and C. H. McFadden. *J. Geog.*, 67, 6:388.

FISHER, JAMES S., Assistant Professor

Bulletins and Technical Reports

The information system: its perspective and some fundamental needs. Center for Urban Studies, Univ. Ill. at Chicago Circle Discussion Paper Series 6, 43 pp.

LANDING, JAMES E., Assistant Professor

Articles

Foci for geography. *J. Geog.*, 67, 2:76-78.

Peppermint and spearmint in the United States. *Ibid.*, 67, 9:548-53.

The Amish and Mennonite Settlement at Nappanee, Indiana. In *Amish-Mennonite directory*, Nappanee, Indiana, ed. by E. and M. Hochstetler, M. H. Mast Co., Arthur, Illinois, pp. 112-15 plus 38 maps.

LARSON, ALBERT J., Assistant Professor

Reviews

A catalogue of Latin American flat maps, 1926-1964, Vol. 1, by Palmyra V. M. Monteiro. *Choice*, 5, 2:182.

North America: its countries and regions, by J. Wreford Watson. *Ibid.*, 5, 7:867.

Latin America: a geographical survey, by Harry Robinson. *Ibid.*, 5, 9:1210.

McCOY, ROGER M., Assistant Professor

Bulletins and Technical Reports

An evaluation of Radar Imagery as a tool for drainage basin analysis, CRES Technical Report 61-31, Univ. Kansas Center for Research, 102 pp.

SCHWIND, PAUL J., Instructor

Articles

The geography of railroad piggyback operations. *Traffic Q.*, 21, 2:237-47.

SOLZMAN, DAVID M., Associate Professor

Articles

Waterfront industrial sites: an opportunity for industry. *Proceedings of the American Real Estate and Urban Economic Association*. 2:70-80. 1967.

Some effects of racial change and urban renewal on chain store operations. In *The impact of urban renewal on small business: the Hyde Park-Kenwood case*, Center for Urban Studies, Univ. Chicago, pp. 163-70.

TIEDEMANN, CLIFFORD, Assistant

Professor

Articles

With Shin-yi Hsu

A rational method for delimiting study areas for unevenly distributed point phenomena. *Prof. Geog.*, 20, pp. 376-81.

On the classification of cities into equal size categories. *Ann., Assn. Amer. Geogr.*, 58, pp. 775-86.

GEOLOGICAL SCIENCES

BAUR, WERNER H., Professor

Articles

With R. F. Zahrobsky

On the crystal chemistry of salt hydrates. V. The determination of the crystal structure of $\text{CuSO}_4 \cdot 3\text{H}_2\text{O}$ (Bonattite). *Acta Cryst.*, B24, 4:508-13.

With B. Rama Rao

The crystal structure and the chemical composition of vauxite. *Amer. Mineralogist*, 53, 5 and 6:1025-28.

De MAR, ROBERT E., Associate Professor

Articles

The Permian Labyrinthodont Amphibian *Dissorophus multicinctus*, and adaptations and phylogeny of the Family Dissorophidae. *J. Paleontology*, 42, 5:1210-42, 18 text figs., 1 pl.

ELDERS, WILFRED A., Associate Professor

Articles

Mantled feldspars from the granites of Wisconsin. *J. Geology*, 76:37-49.

Recent advances in geology, geochemistry and geophysics. 1969 *Britannica yearbook of science and the future*, Encyc. Britannica Inc., Chicago, pp. 321-33.

Reviews

Selected works: granites and migmatites, by J. J. Sederholm. *J. Geology*, 76:612.

FORBES, WARREN C., Assistant Professor

Articles

With S. H. Y. Wei

X-ray diffraction analysis of carious dentine treated with stannous fluoride. *Arch. Oral Biology*, 13:407-16.

X-ray diffraction analyses of the reactions between intact and powdered enamel and several fluoride solutions. *J. Dental Research*, 47, 3:471-78.

McCAMMON, HELEN M., Visiting Associate Professor

Articles

With R. Buchsbaum

Size and shape variation of three recent brachiopods from the Strait of Magellan: Biology of the Antarctic Seas III. *Antarctic Research Series*, 2:215-25.

McCAMMON, RICHARD B., Associate Professor

Articles

Multiple component and analysis and its application in the classification of environments. *AAPG Bull.*, 52, 11:2178-96.

The dendrograph: A new tool for correlation. *GSA Bull.*, 79, 11:1663-70.

SMITH, NORMAN D., Assistant Professor

Articles

Cyclic sedimentation in a Silurian intertidal sequence in eastern Pennsylvania. *J. Sedimentary Petrology*, 38, 4:1301-04.

TILLMANN, EKKEHART, Visiting Professor

Articles

Eine neue Verbindung im System Bariumoxid-Titandioxid. *Naturwissenschaften*, 55: 81.

GERMAN

JENNINGS, LEE B., Professor

Articles

Der aufgespessete Schmetterling: Justinus Kerner und die Frage der psychischen Entwicklung. *Antaios*, 10:109-31.

Probleme um Kerners "Seherin von Prevorst." *Ibid.*, pp. 132-38.

Reviews

Notter, Friedrich, *Eduard Mörike und andere Essays*, ed. Walter Hagen (Marbach a.N., 1966); *Germanistik*, 9:162-63.

KAUF, ROBERT, Professor

Articles

Das Wiener Volksschauspiel und die "Literatur." *Maske und Kothurn*, 14:351-53.

Reviews

Fasching, by Gerhard Fritsch. *Bks. Abroad*, 42:265-66.

Die Prosa Johannes Urzidils: Zum Verständnis seines literarischen Werdegangs vom Expressionismus zur Gegenwart, by Gerhard Trapp. *Ibid.*, 42:429.

Die Tür im Fenster, by Peter von Tramin. *Bks. Abroad*, 42:432.

Die Schrift an der Wand: Tagebücher 1941 bis 1946, by Günther Anders. *Ibid.*, 42:436.

Das fünfte Rad am Thespiskarren II: Theaterkritiken, by Friedrich Torberg. *Ibid.*, 42:574.

Ponce de Leon: Ein Lustspiel, by Clemens Brentano (Reclam). *The German Quarterly*, 41:762-63.

Leben der schwedischen Gräfin von G. . . ., by Christian Fürchtgott Gellert (Reclam). *Ibid.*, 41:762.

Die missbrauchten Liebesbriefe: Novelle, by Gottfried Keller (Reclam). *Ibid.*, 41:763-64.

Deutsche Literatur im 20. Jahrhundert, ed. by Otto Mann and Wolfgang Rothe. *Ibid.*, 41:764.

An der lauen Donau: Szenen und Spiele, by Carl Merz and Helmut Qualtinger. *Ibid.*, 41:765.

Herman Meyer's The Poetics of Quotation in the European Novel, transl. by Theodore and Yetta Ziolkowski. *Ibid.*, 41:764-65.

Neue deutsche Erzählgedichte, ed. by Heinz Piontek. *Ibid.*, 41:765.

Gedichte, by August von Platen (Reclam). *Ibid.*, 41:763.

Das Rollwagenbüchlein, by Georg Wickram (Reclam). *Ibid.*, 41:761-62.

SHAW, LEROY R., Professor

Articles

Modern Austrian dramatists on the New York stage. In *Österreich und die angelsächsische Welt: Kulturbegegnungen und Vergleiche*, vol. II, ed. by Otto Hietsch, Vienna, pp. 547-63.

GRADUATE COLLEGE ADMINISTRATION

KAUVER, GERALD B., Assistant Dean, Graduate College

Articles

Marlow as liar. *Studies in Short Fiction*, 5, 3:290-92.

HEALTH SERVICE

KYSAR, JOHN E., Associate Professor of Psychiatry and Director

The community psychiatrist and large organizations. *Mental Hygiene*, 52, 2:210-17.

The two camps in child psychiatry. *Amer. J. Psychiatry*, 125, 1:103-9.

Reactions of professions to disturbed children and their parents. *Arch. General Psychiatry*, 19:562-70.

HISTORY

EDIE, CAROLYN A., Associate Professor

Reviews

A coffin for King Charles, by C. V. Wedgwood. *Amer. Hist. Rev.*, 73:1148-49.

Privy Council registers preserved in the Public Record Office. Reproduced in facsimile. Volume 1, 1 June—31 October 1637. *Ibid.*, 74:597-98.

Vexed and troubled Englishmen 1590-1642, by Carl Bridenbaugh. *New York Hist.*, 49:455-57.

GOTTSCHALK, LOUIS, Visiting Professor

Books

With L. C. McKinney, E. H. Pritchard

Histoire du developpement culturel et scientifique de l'humanité, Vol. IV:1300-1775. Robert Laffont, Paris, 1118 pp. (in 2 tomes). Greek translation: UNESCO Ekdotikos Organismos, Athens, 1011 pp.

Articles

Writing world history. *Hist. Teacher*, 2, 1:17-23.

The Jewish faculty member and the Hillel Foundation. In *New frontiers for Jewish life on the campus*, ed. by Alfred Jospe, B'nai B'rith Hillel Foundations, Wash., D.C., pp. 68-73.

HOLLI, MELVIN G., Assistant Professor

Articles

Hazen S. Pingree: a saga of success. *Detroit Hist. Bull.*, 24, 5:4-11.

Mortimer E. Cooley: technocrat as politician. *Michigan Hist.*, 52, 2:133-46.

HUPPERT, GEORGE, Assistant Professor

Articles

Les Recherches d'Estienne Pasquier Annales (Economics, Sociétés, Civilisations) January, pp. 69-105.

Reviews

The life and works of Louis Le Roy, by W. L. Gundersheimer. *History and Theory*, 7:151-58.

JONES, PETER d'A., Professor

Books

The Christian Socialist revival, 1877-1914: religion, class, and social conscience in Late-Victorian England. Princeton Univ. Press, Princeton, N.J., 504 pp.

The robber barons revisited. D.C. Heath, Boston, 128 pp.

La Sociedad Consumidora: Historia del Capitalismo Estadounidense. Editorial Pax-Mexico, Mexico City, D.F., 544 pp.

Articles

The military-industrial complex, 1952-1964. In *Main problems in American history*, ed. by Quint, Albertson and Cantor, Dorsey Press, Homewood, Ill., pp. 370-407.

LEGON, RONALD P., Assistant Professor

Articles

Megara and Mytilene. *Phoenix*, 22, 3:200-25.

REMINI, ROBERT V., Professor

Books

Andrew Jackson and the Bank War. W. W. Norton, Inc., N.Y., 192 pp.

Reviews

Most uncommon Jacksonians: the radical

leaders of the early labor movement, by Edward Pessen. *J. Amer. Hist.*, 55:649-50.

THADEN, E. C., Professor

Articles

Liberals versus conservatives in Soviet art and literature. In *The triangle of power, conflict, and accommodation*, ed. by Prybyla, Penn State, University Park, Pa., pp. 53-60.

Reviews

M. N. Katkov, by Marvin Katz. *Russian Review*, 27:103-4.
Origins of the Russian intelligentsia, by Marc Raeff. *Ibid.*, 26:300-01.
Russia i Evropa, by Nikolai Ia. Danilevskii. *Slavic and East Eur. J.*, 11:502.

WOLF, JOHN B., Professor

Books

Louis XIV. W. W. Norton and Co., N.Y. 678 pp.

INFORMATION ENGINEERING

ARZBAECHER, ROBERT C., Associate Professor

Articles

With L. Stark, G. Agarwal, D. Hendry, W. O'Neill, J. Brodkey
Status of research in biomedical engineering. *IEEE Trans. Biomed. Eng.*, BME-15: 210-31.

With R. Dean, R. Price

Computer analysis of drug-induced changes in the electrocardiogram. *Proc. of the 21st Ann. Conf. on Eng. in Med. and Biol.*, Nov., pp. 40-41.

CENSOR, DAN, Assistant Professor

Articles

Relativistic doppler broadening diagnostics. *IEEE Trans. on Nuclear Sci.*, NS-15:27-30.
First-order propagation in moving media. *IEEE Trans. on Microwave Thry. and Techniques*, MTT-16:565-66.
Scattering by moving objects and scattering in moving media. *Proc. of the 6th Natl. Conv. of Electrical and Electronics Engrs. in Israel*, Tel Aviv: 467-80.

With A. Nathan

Extended ∇ relations with reference to E. M. waves in moving simple media. *Ibid.*, 498-505.

Extended ∇ relations with reference to E. M. waves in moving simple media. *IEEE Trans. on Microwave Thry. and Techniques*, MTT-16:883-84.

CONANT, ROGER C., Assistant Professor

Articles

Channel capacity of Moore automata. *Info. and Contr.*, 12, 5/6:453-65.

FERGUSON, JOHN D., Assistant Professor

Articles

With Z. V. Rekasius
Optimal linear control systems with incomplete state measurements. *Proc. of the 6th Ann. Allerton Conf. on Crct. and Sys. Thry.*: 671-79.

GOSE, EARL E., Associate Professor

See Bioengineering Program.

MASEK, GERALD A., Instructor

Articles

Midbrain single units correlating with pupil response to light. *Science*, 162:1301-03.

REDDY, DEVENDAR C., Assistant Professor

Articles

Eigenfunctions and solutions of sensitivity equations. *Electronics Ltrs.*, 4, 13:262.

With C. K. Sanathanan

Modal analysis and sensitivity reduction in distributed parameter systems. *Proc. of the 6th Ann. Allerton Conf. on Crct. and Sys. Thry.*, pp. 617-18.

SANATHANAN, CHATHILINGATH K., Associate Professor

Articles

With D. C. Reddy

Modal analysis and sensitivity reduction in distributed parameter systems. *Proc. of the 6th Ann. Allerton Conf. on Crct. and Sys. Thry.*, pp. 617-18.

With D. R. MacFarlane, N. A. McNeal
D. A. Meneley

Sodium boiling transients in oxide-fueled fast reactors. *Nucl. Eng. Design*, 7, 5:411-26.

Theoretical study of transient boiling of sodium in reactor coolant channels. *Proc. of the Intl. Natl. Conf. on Safety of Fast Breeder Reactors*, Aix-en-Provence, France, pp. 15.1-15.26.

SMITH, THOMAS M., Assistant Professor

Articles

With R. W. Larson, D. L. Sengupta

Radiation characteristics of a spherical array of circularly polarized elements. *IEEE Trans. on Antennas and Propagation*, AP-16, 1:2-7.

With D. L. Sengupta, J. E. Ferris

Experimental study of a spherical array of circularly polarized elements. *Proc. of the IEEE*, 56, 11:2048-51.

TROELSTRA, ARNE, Associate Professor

See Bioengineering Program.

LIBERAL ARTS AND SCIENCES

ADMINISTRATION

LITTLE, ELLIS B., Associate Professor, Biological Sciences; Associate Dean

Articles

With J. Creaser

What is the score? *J. Educ. Res.*, 61, 10: 451-55.

Epistemic curiosity and man's higher nature. *Psych. Rpts.*, 23:615-25.

LIBRARY

McCREE, MARY LYNN, Assistant Professor

Books

With P. M. Angle

Prairie state. Impression of Illinois, 1673-1967, by travelers and other observers. The Univ. Chicago Press, Chicago and London, 624 pp.

Maps (text and chronology)

With P. M. Angle

Illinois. History House, Inc.

MEIER, MARVIN O., Instructor

Reviews

A dictionary of philosophy, ed. by M. Rosenthal and P. Yudin. *QO* (American Library Assn. Ref. Serv. Div.), 8:65.

Popular names of U.S. government reports, compiled by Donald F. Wilson and William P. Kilroy. *Ibid.*, 8:67.

MARKETING

FELDMAN, LAURENCE P., Assistant Professor

Articles

With A. D. Star

Racial factors in shopping behavior. In *A new measure of responsibility for marketing*, ed. by Cox and Enis, Amer. Marketing Assn., Chicago, pp. 216-26.

LARSON, CARL M., Associate Professor

Articles

With W. Dunne, A. T. Malinosky

A study of the relationship between quarter rank in high school and performance in a first semester accounting course. *Natl. Public Acct.*, 13, 1:26-28.

Racial brand usage and media exposure differentials. In *A new measure of responsibility for marketing*. 1968 June conference proceedings, ed. by Cox and Enis, Amer. Marketing Assn., pp. 208-15.

STAR, ALVIN D., Lecturer

Articles

With L. P. Feldman

Racial factors in shopping behavior. In *A new measure of responsibility for marketing*, ed. by Cox and Enis, Amer. Marketing Assn., Chicago, pp. 216-26.

WALES, HUGH G., Professor

Books

With J. S. Dobrovolsky, W. O. Smith, Jr.

A report on the micro-precision and homological educational research project. U.S. Dept. HEW, Ofc. of Educ., Bur. of Res., Wash., D.C., 249 pp.

Articles

Marketing in South Africa. In *Comparative marketing systems*, ed. by Sommers and Kernan, Houghton-Mifflin Co., N.Y., pp. 382-91.

MATERIALS ENGINEERING

BELYTSCHKO, TED, Assistant Professor

Articles

With P. G. Hodge, Jr.

A program for the yield-point load of arches. *J. Struct. Div., ASCE*, 94:1383-96.

Numerical methods for the limit analysis of plates. *J. Appl. Mech.*, 35:796-802.

BLEWITT, THOMAS H., Professor

Articles

With M. E. Fine, J. A. Horak

Effect of neutron irradiation at 4.5°K on Guinier-Preston zone formation in aluminum-zinc alloys. *J. Appl. Phys.*, 39, 1: 326-35.

With C. A. Arenberg

Irradiation hardness in copper. *Trans. Japan Inst. Metals*, 9: (Suppl.) 226-33.

DOMAGALA, ROBERT F., Associate Professor

Articles

With R. Ruh, H. J. Garrett, N. M. Tallan

The zirconia-hafnia system. *J. Amer. Ceramic Soc.*, 15, 1:23-27.

With J. W. Lenke, R. J. Van Thyne

Application of the microprobe analyzer to biological material investigations. *J. Biomed. Mat. Res.*, 2:389-99.

DOYLE, JAMES M., Associate Professor

Articles

With W. D. O'Neill

A thin shell deformation analysis of the human lens. *Vision Research*, 8:193-206.

With S. L. Chu

Plastic design of flexible conduits. *J. Struct. Div., ASCE*, 94:1935-44.

MASUR, ERNEST F., Professor

Articles

With J. E. Taylor

Effect of shear deformation on the boundary layer of buckled circular plates. *J. Appl. Mech., ASME*, 35, 3:606-7.

With R. C. Shieh

Some general principles of dynamic instability of solid bodies. *J. Appl. Math. Phys. (ZAMP)*, 19, 6:927-42.

MOORE, CHARLES A., Assistant Professor

Articles

Quantitative analysis of naturally occurring multicomponent mineral systems by x-ray diffraction. *Clays and clay minerals. Clay Minerals Soc.*, 16, 3:325-36.

RANGAN, B. VIJAYA, Visiting Lecturer

Articles

With K. T. S. Iyengar

Strength and stiffness of reinforced concrete beams under combined bending and torsion. *Amer. Concrete Inst., SP-18*:403-40.

RIMAWI, WALID H., Assistant Professor

Articles

Reexamination of extended theorems of limit analysis of anisotropic and non-homogeneous solids. *Reinforced Concrete J.*, 7:1-14.

With T. Mura, S. L. Lee

A variational method for limit analysis of anisotropic and nonhomogeneous solids. *Proc., 3rd Southeastern Conf. on Theor. and Appl. Mech.*, Pergamon Press, pp. 57-71.

SCHEY, JOHN A., Professor

Articles

The more common fabrication processes. In *Techniques of metals research*, ed. by R. Bunshah, 1, 3:1409-1538.

SCHOEBERLE, DANIEL F., Associate Professor

Articles

With R. A. Valentin

Transient thermal stresses associated with sudden initiation of internal heat generation in an axial segment of a circular cylinder. *J. Nucl. Eng. and Design*, 9.

SCHULTZ, ALBERT B., Associate Professor

Articles

Material behavior in wires of 1100 aluminum

- subjected to transverse impact. *J. Appl. Mech.*, 35:342-48.
- Large dynamic deformations caused by a force traveling on an extensive string. *Intl. J. Solids Struct.*, 4:799-809.
- With T. C. T. Ting*
Determination of the stress-strain relation in a wire under transverse impact. *J. Appl. Mech.*, 35:406-8.
- With S. W. Tsai*
Dynamic moduli and damping ratios in fiber-reinforced composites. *J. Composite Materials*, 2, 3:368-79.
- SHAH, SURENDRA P., Assistant Professor
- Articles
With S. Chandra
Critical stress, volume change, and micro-cracking of concrete. *Journal, ACI, Proc.*, 65, 9:770-81.
- TING, THOMAS C. T., Associate Professor
- Articles
Contact problems in the linear theory of viscoelasticity. *J. Appl. Mech.*, 35, 2: 248-54.
- With A. B. Schultz*
Determination of the stress-strain relation in a wire under transverse impact. *Ibid.*, pp. 406-8.
- With R. J. Clifton*
The elastic-plastic boundary in one-dimensional wave propagation. *J. Appl. Mech.*, 35, 4:812-14.
- WIDERA, OTTO E., Assistant Professor
- Articles
On the dynamic theory of anisotropic cylindrical shells. *Proc. Intl. Cong. Acoustics, Part IV, G:25-28.*
- With C. H. Wu*
A boundary layer theory for the end problem of a circular cylinder. *J. Eng. Math.*, 2:343-53.
- WU, CHIEN H., Assistant Professor
- Articles
A nonlinear boundary layer for shells of revolution. *Intl. J. Eng. Sci.*, 6, 5:265-81.
The strongest circular arch—a perturbation solution. *J. Appl. Mech.*, 35, 3:476-80.
- With O. E. Widera*
A boundary layer analysis for the end problem of a circular cylinder. *J. Eng. Math.*, 2:343-53.
- MATHEMATICS**
- DWINGER, PHILIP, Professor
- Articles
On a class of reflective subcategories. *Indag. Math.*, 30, 1:36-45.
Generalized post algebras. *Bull. de l'Academie Polonaise des Sciences Seriel des Sciences Math., Astr. et Phys.*, 16, 7:559-65.
- FEDER, SAMUEL, Assistant Professor
- Articles
The reduced symmetric product of projective spaces and the embedding problem. *Bull. Soc. Mat. Mex.*, pp. 76-80.
- FEINSTEIN, IRWIN K., Professor
- Books
New Math II. Whitman Pub. Co., Racine, Wisconsin, 64 pages.
New Math III. *Ibid.*, 64 pp.
- Reviews
Basic mathematics for elementary teachers, by Ward D. Bowsma, Clyde G. Corle and Davis F. Clemson. *Arith. Teacher*, 15, 4: 376-77.
- FRANK, EVELYN, Professor
- Articles
Continued fraction expansions with real numerical elements. *Revista da Faculdade de Ciencias de Lisboa (2) A*, 12:25-40.
- Reviews
Matrizenkettenbrüche, by Pia Pflunger. *Math. Rev.*, 36:1309.
Matrices and linear transformations, by Charles G. Cullen. *Zlb. Math.*, 139:25-26.
- HARRIS, MORTON E., Assistant Professor
- Articles
A normalizer condition on a finite group. *Rend. Mat.*, 1:1-4.
- HERING, CHRISTOPH H., Associate Professor
- Articles
Zweifach transitive permutationsgruppen, in denen 2 die maximale Anzahl von Fixpunkten ist. *Math. Zeitschr.*, 104:150-74.
Über projektive Ebenen vom Lenz-Typ III. *Ibid.*, 105:219-25.
- ITO, NOBORU, Professor
- Articles
On a class of doubly, but not triply transitive permutation groups. *Archiv der Mathematik*, 18:564-70.
- KANTOR, WILLIAM, Assistant Professor
- Articles
4-homogeneous groups. *Math. Zeitschr.*, 103: 67-68.
- KANTOROVITZ, SHMUEL, Associate Professor
- Articles
The C^k -classification of certain operators in L_p . *Trans. Amer. Math. Soc.*, 132:323-33.
Local C^k -operational calculus. *J. Math. Mech.*, 17:181-88.
- KNIGHTEN, ROBERT LEE, Assistant Professor
- Articles
An application of categories of fractions to homotopy theory. In *Reports of the Midwest Category Seminar II*. Springer-Verlag, Lecture Notes in Mathematics No. 61, pp. 62-68.
- LASHER, SIM, Assistant Professor
- Articles
On Peano derivatives in $L^p(E_n)$. *Studia Math.*, 29:195-201.
- MILGRAM, JAMES R., Associate Professor
- Articles
With M. Mahowald
Embedding real projective spaces. *Ann. Math.* 87:411-22.
With M. Mahowald, S. Gitler
The non immersion problem for RP^n and

higher-order cohomology operations. *Proc. Natl. Acad. Sci.*, 60:432-37.

Steenrod squares and higher Massey products. *Bol. Soc. Mat. Mex.*, 12:1-27.

MOELLER, JAMES W., Associate Professor
Articles

The inner function in Rota's Model. *Acta Scientiarum Mathematicarum (Szeged)*, 29:87-90.

PATHAK, PRAMOD K., Assistant Professor
Articles

With R. N. Pillai

On a characterization of the normal law. *Sankhyā*, 30A:141-44.

SANDLER, REUBEN, Associate Professor

Books

With A. A. Albert

An introduction to finite projective planes. Holt, Rinehart and Winston, N.Y., 98 pp.

SEITZ, GARY, Assistant Professor

Articles

Finite groups having only one irreducible representation of degree greater than one. *Proc. Amer. Math. Soc.*, 10, April, pp. 459-61.

TWERSKY, VICTOR, Professor

Articles

With C. I. Beard, T. H. Kays

Scattering by random distributions of spheres vs. concentration. *IEEE Trans. Ant. Propagation*, AP-15, 1:99-118.

With J. E. Burke, T. H. Kays, J. L. Kulp

Scattering by two-component random distributions of spheres. *Applied Optics*, 7, 12:2392-2400.

Scattering by discrete random media. In *Proc. of the symposium on turbulence of fluids and plasma*, ed. by Jerome Fox, Polytechnic Press, N.Y., pp. 1-19.

Turbulence of fluids and plasmas: report. *Applied Optics*, 7, 9:1810,1817,1818.

MUSIC

KADERAVEK, MILAN, Instructor

Music

Let my prayer come like incense, for TBB and organ accompaniment. World Library Publications, Inc., Cincinnati, Ohio, 11 pp.

Talk not to me, for SATB chorus a cappella. Westwood Press, Inc., Cincinnati, Ohio, 6 pp.

PHILOSOPHY

DICKIE, GEORGE T., Professor

Articles

Art narrowly and broadly speaking. *Amer. Philos. Q.*, 5, 1:71-77.

I. A. Richard's phantom double. *Brit. J. Aesthetics*, 8, 1:54-59.

Meaning and intention. *Genre*, 1, 3:182-89.

Reviews

Validity in interpretation, by E. D. Hirsch, Jr. *J. of Aesthetics and Art Criticism*, 24, 4:550-52.

MARCUS, RUTH BARCAN, Professor

Articles

Modal logic. In *Contemporary philosophy*,

ed. by Klibansky, Firenze, Firenze, La Muova, Italia, pp. 87-103.

SKYRMS, BRIAN F., Associate Professor

Articles

With N. Rescher

A methodological problem in the evaluation of explanation. *Nous*, 2, May, pp. 121-29.

Superevaluations, identity, existence, and individual concepts. *J. Phil.*, 65, Aug., pp. 477-82.

THALBERG, IRVING, Associate Professor

Articles

Verbs, deeds and what happens to us. *Theoria*, 23, 3:259-77. 1967.

PHYSICAL EDUCATION FOR MEN

BERRAFATO, PETER R., Professor

Articles

Rating an intramural basketball referee. In *19th Ann. Conf. Proceedings*, 1968 National Intramural Assn., pp. 32-35.

PHYSICS

BERNSTEIN, SEYMOUR, Professor

Articles

With T. F. Hoang, D. P. Earty, J. J. Phelan, A. Roberts, others

$K_1^0 K_1^0$ threshold enhancement in $\pi^- p \rightarrow K_1^0 K_1^0 n$ at 4 and 5 GeV/c. *Phys. Rev. Letters*, 21:316-19.

BODMER, ARNOLD R., Professor

Articles

With S. Ali

The AA Hypernucleus ${}^6\text{He}$. II. *Nuovo Cimento*, 50:511. AA

EDELSTEIN, ALAN S., Associate Professor

Articles

Spin compensation in an element, cerium. *Phys. Rev. Letters*, 20:1348-51.

Observation of a Kondo effect in a concentrated system. *Physics Letters*, 27A: 614-15.

GARLAND, JAMES, Associate Professor

Articles

Effect of lattice disorder on the superconducting transition temperature. *Phys. Rev. Letters*, 21, 18:1315-19.

GARRELL, MARTIN H., Visiting Assistant Professor

Articles

With U. Timm, L. Criegee, W. Zimmermann, H. Sadrozinski

Rho production with polarized photons. *Physics Letters*, 28B, 4:283-85.

Collimation tests on a coherent photon beam from a silicon target. *Ibid.*, 2:140-42.

KRIEGER, STEPHAN J., Assistant Professor

Articles

With C. W. Nestor, Jr., K. T. R. Davies, M. Baranger

An effective nucleon-nucleon potential for use in nuclear Hartree-Fock calculations. *Nuclear Physics*, A113:14-26.

McLEOD, DONALD W., Assistant Professor

Articles

With T. F. Hoang, D. P. Eartly, J. J. Phelan, A. Roberts, others

$K_1^0 K_1^0$ threshold enhancement in $\pi^- p \rightarrow K_1^0 K_1^0 n$ at 4 and 5 GeV/c. *Phys. Rev. Letters*, 21:316-19.

MARGULIES, SEYMOUR, Assistant Professor

Articles

Fitting experimental data using the method of least squares. *Rev. Sci. Instr.*, 39:478.

With T. F. Hoang, D. P. Eartly, J. J. Phelan, A. Roberts, others

$K_1^0 K_1^0$ threshold enhancement in $\pi^- p \rightarrow K_1^0 K_1^0 n$ at 4 and 5 GeV/c. *Phys. Rev. Letters*, 21:316-19.

With J. J. Phelan

On the parametrization of resonances occurring near threshold. *Nuovo Cimento*, 58A: 804.

MATZKANIN, GEORGE A., Visiting Assistant Professor

Articles

With P. J. Haigh, P. C. Canepa, T. A. Scott
Nuclear resonance in the solid methylamines. *I. J. Chem. Phys.*, 48, 9:4234-41.

With M. Kuznietz, Y. Baskin

Knight shifts of ^{31}P in the paramagnetic state of the UP-US solid solutions. *Physics Letters*, 28A, 2:122-23.

SCHREIBER, DAVID S., Associate Professor

Articles

With J. P. Kopp

Nuclear magnetic resonance studies of magnetic properties of light rare earth hydrides. *J. Appl. Phys.*, 38:1373. 1967.

Proton knight shifts in the light rare earth hydrogen systems. *Physics Letters*, 24A: 323. 1967.

With L. D. Graham

Local moment saturation in a dilute giant moment alloy. *J. Appl. Phys.*, 39:963.

With E. Von Meerwall

NMR in high concentration vanadium hydride: VH_{x_1} $x < 2$. *Physics Letters*, 27A: 574.

SHARMA, RAM R., Associate Professor

Articles

On the alpha-function technique for two-center integrals. *J. Math. Phys.*, 9:505.

Binding energy of the excitonic molecule. *Phys. Rev.*, 170:770.

Binding energy of the positronium molecule. *Ibid.*, 171:36.

Spin-lattice coupling constants of an Fe^{3+} ion in MgO . *Ibid.*, 176:467.

With T. P. Das, R. Orbach

The zero-field splitting of S-state ions. III. Solid solutions and crystals under uniaxial stress. *Ibid.*, 171:378.

SOLOMON, JULIUS

Articles

With G. A. Sayer, E. F. Beall, T. J. Devlin, P. Shepard

Measurements of total cross sections for K_2^0 mesons on protons and selected nuclei from 168 to 343 MeV/c and measurement of K_2^0 meson life. *Phys. Rev.*, 169, 1045-73.

With P. E. Boynton, T. J. Devlin, V. Ponce-Mendez

Double charge exchange of positive π mesons on complex nuclei. *Ibid.*, 174:1083-92.

VARGA, BENDEGUZ, B., Assistant Professor

Articles

With S. Eckstein

Dispersion of phonons in Me^4 . *Phys. Rev. Letters*, 21:1311-14.

VEZZETTI, DAVID J., Assistant Professor

Articles

With A. J. F. Siegert

On the ising model with long range interaction. *J. Math. Phys.*, 9:2173-93.

WINSBERG, LESTER, Professor

Articles

With J. A. Panontin, L. L. Schwartz, A. F. Stehney, E. P. Steinberg

Nuclear recoil in the $\text{C}^{32}(\text{p}, \text{pn})\text{C}^{31}$ reaction. II. Energy distribution. *Phys. Rev.*, 169: 851-59.

With J. M. Alexander

Some equations for analysis of recoil experiments. In *Nuclear chemistry*, ed. by L. Yafec, Academic Press, N.Y., pp. 340-49.

POLITICAL SCIENCE

BEAM, GEORGE D., Assistant Professor

Books Edited

With J. C. Buechner

Readings on American government: concepts in context. Wadsworth Pub. Co., Inc., Belmont, California, 398 pp.

GOODALL, LEONARD E., Associate Professor

Books

The American metropolis. Charles E. Merrill Pub. Co., Columbus, Ohio, 246 pp.

Handbook for mayors and councilmen (rev. ed.). Institute of Public Administration, Arizona State Univ., Tempe, Arizona, 43 pp.

Articles

Emerging political patterns in Southwestern cities. In *Urbanization in the Southwest*, ed. by Clyde J. Wingfield, Texas Western Press, El Paso, pp. 33-42.

Reviews

Cities in a race with time, by Jeanne Lowe. *Psychology Today*, 3, 2:70-71.

GRABER, DORIS A., Associate Professor

Books

Public opinion, the president, and foreign policy. Holt, Rinehart and Winston, N.Y., 374 pp.

Articles

La controversia del Vietnam. *El Colombiano*, March, pp. 1-4.

KEENAN, BOYD R., Professor

Articles

High energy administration: big science model for the future. In *Public Admin. Rev.*, 28, 3:250-55.

Reviews

The politics of research, by Richard J. Barber. *Midwest J. Poli. Sci.*, 12, 1: 147-50.

- Contracting for atoms, by Harold Orlans.
Ibid., pp. 147-50.
- Reflections on big science, by Alvin M. Weinberg. *Ibid.*, pp. 147-50.

SHANNON, W. WAYNE, Assistant Professor

Books

- Party, constituency and congressional voting. Louisiana State Univ. Press, Baton Rouge, 202 pp.

Articles

- Electoral margins and voting behavior in the House of Representatives: the case of the Eighty-sixth and Eighty-seventh Congresses. *J. Politics*, 30, 4:1028-45.

SIMPSON, DICK W., Assistant Professor

Reviews

- Political change in a West African state, by Martin Kilson. *J. Politics*, 29, 3:673-74.

TACHAU, FRANK, Associate Professor

Reviews

- Golden river to golden road: society, culture and change in the Middle East, by R. Patai. *Choice*, 5, 10:1379.

PSYCHOLOGY

ASH, PHILIP, Professor

Articles

- State psychology board examining practices. *Amer. Psychol.*, 23, 10:764-65.

Reviews

- Conflict in human relations, by R. J. Hacon. *J. Business*, 40, 1:110.

BERKSON, GERSHON B., Associate Professor

Articles

- Maturation defects in kittens. *Amer. J. Ment. Defic.*, 72:757-77.

- Weight and tooth development during the first year. *Macaca irus. Lab. Ani. Care*, 18:352-55.

- Development of abnormal stereotyped behaviors. *Developm. Psychobiol.*, 1:118-32.

DAVIS, JOHN D., Associate Professor

Articles

- With G. Lulensky, N. E. Miller

- Comparative studies of barbiturate self-administration. *Intnl. J. Addiction*, 3:207-14.

With C. Oliphant

- Test of the information theory of secondary reinforcement. *Proc. 76th Ann. Conv. APA*, 3:137-38.

DOMINOWSKI, ROGER L., Associate Professor

Articles

- Anagram solving as a function of letter-sequence information. *J. Exp. Psychol.*, 76, 1:78-83.

- Stimulus memory in concept attainment. *Psychon. Sci.*, 10, 10:359-60.

With B. R. Ekstrand

- Solving words as anagrams: II. A clarification. *J. Exp. Psychol.*, 77, 4:552-58.

With H. Gadin

- Imagery in paired-associate learning. *Canad. J. Psychol.*, 22, 5:336-48.

FARBER, I. E., Professor

Articles

With J. S. Brown

- Secondary motivational systems. In *Annual review of psychology*, vol. 19, ed. by Farnsworth, Rosenzweig, and Poleska, Annual Reviews, Inc., Palo Alto, Calif., pp. 99-127.

FREEDMAN, PHILIP E., Assistant Professor

Articles

With Nan E. McGehee

- Facilitation of paired-associate learning by non-verbal mediators. *Psychol. Rpt.*, 23: 595-600.

With B. S. Callahan

- Discriminative compartmental CSs in shuttle-box avoidance acquisition. *Psychon. Sci.*, 12:341-42.

With T. Kamowski

- An inexpensive silent unlocking device for manipulanda. *Behav. Res. Meth. Instr.*, 1:34.

SEGAL, EVALYN F., Associate Professor

Articles

With D. L. Oden

- Concurrent facilitation of food-reinforced, spaced licking and depression of schedule-induced, polydipsic licking by amphetamine. *Psychon. Sci.*, 10:155-56.

TYLER, THOMAS A., Assistant Professor

Articles

With D. W. Fiske

- Homogeneity indices and test length. *Educ. and Psychol. Measurement*, 28:767-77.

WYER, ROBERT S., JR., Associate Professor

Articles

- Behavioral correlates of academic achievement: II. Pursuit of individual vs. group goals in a decision-making task. *J. Educ. Psychol.*, 59:74-81.

- Effects of task reinforcement, social reinforcement, and task difficulty on perseverance in achievement-related activity. *J. Pers. Soc. Psychol.*, 8:269-76.

With M. Dermer

- Effect of context and instructional set upon evaluations of personality-trait adjectives. *Ibid.*, 9:7-14.

- The effects of information redundancy on evaluations of social stimuli. *Psychon. Sci.*, 13:245-46.

With O. J. Harvey, J. W. Reich

- Effects of attitude direction, attitude intensity and structure of beliefs upon differentiation. *J. Pers. Soc. Psychol.*, 10: 472-78.

SOCIAL WORK

DINWOODIE, ADELAIDE, Associate Professor

Articles

With D. Pappenfort, D. Kilpatrick

- Children in institutions, 1966: a research note. In *Social Serv. Rev.*, 42:252-60.

Bulletins and Technical Reports

- Population of children's residential institutions in the United States. Center for Urban Studies, Univ. Chicago, 31 pp.

GRUENER, JENNETTE R., Professor

Articles

Values of social work students in two cultures. In *Social work education reports*, 16, 1, 44:57-59.

MAGNER, GEORGE W., Associate Professor

Reviews

Behavioral science for social workers, by Edwin J. Thomas (ed.). *Social work*, 13, 4:115-16.

TILLMAN, NAOMI L., Assistant Professor

Articles

A framework for planning. In *Day care for children in Chicago: needs and resources by community areas*, Welfare Council of Metropolitan Chicago, Chicago, Illinois, pp. 1-15.

WILLE, L. JANE, Professor

Reviews

School children in the urban slum, by Joan I. Roberts. *Social Serv. Rev.*, 43, 2:280.
Education for the disadvantaged, by Harry L. Miller. *Social Serv. Rev.*, 43, 2:281.

SOCIOLOGY

JOHNSTONE, JOHN W. C., Associate Professor

Articles

With L. Rosenberg

Sociological observations on the privileged adolescent. In *Understanding adolescence*, ed. by J. F. Adams, Allyn and Bacon, Boston, pp. 318-36.

Reviews

The foreign language press in Australia, 1848-1964, by Miriam Gilson and Jerzy Zubrucki. *Amer. J. Soc.*, 73, 5:654-55.
Citizenship and television, by J. G. Blumler, John Madge. *Pub. Opinion Q.*, 32, 3: 545-46.

LITTLE, ROGER W., Associate Professor

Articles

Military organization and national service. In *National service*, ed. by Donald J. Eberly, Russell Sage Foundation, N.Y., pp. 81-95.

Basic education and youth socialization in the armed forces. *Amer. J. Orthopsychiatry*, 38, 5:869-76.

Rangsysteme in Amerikanischen militar. *Kolner Zeitschrift*, Sonderheft 12:187-98.

McKINLAY, RICHARD J., Instructor

Bulletins and Technical Reports

With Ethel Shanas

Austin: civil rights and integration in a Chicago community. Community and Family Study Center, Univ. Chicago, 53 pp.

OPPENHEIMER, VALERIE, Assistant Professor

Articles

The sex-labeling of jobs. *Industrial Relations*, 7, 3:219-34.

SHANAS, ETHEL, Professor

Books

With P. Townsend, D. Wedderburn, H. Friis, J. Stehower
Old people in three industrial societies.

Atherton and Routledge Kegan Paul, N.Y. and London, 478 pp.

Books Edited

With J. Madge

Methodological problems in cross-national studies in aging. S. Karger, Basel and N.Y., 113 pp.

Articles

A note on restriction of life space: attitudes of age cohorts. *J. Health and Social Behavior*, 9, 1:86-90.

Problems in the organization and design of cross-national studies in aging. In *Methodological problems in cross-national research in aging*, ed. by Shanas and Madge. S. Karger, Basel and N.Y., pp. 1-13.

Discussion following Donald L. Spence's paper. In *The retirement process*, ed. by Carp, U.S. Govt. Printing Ofc., Wash., D.C., pp. 77-82.

Bulletins and Technical Reports

With R. McKinlay

Austin: civil rights and integration in a Chicago community. Community and Family Study Center, Univ. Chicago, 53 pp.

Reviews

Culture and aging, by M. Clark and B. Anderson. *A.S.R.*, 33, 3:481.

VANECKO, JAMES J., Instructor

Articles

With R. L. Crain

Elite influence in school desegregation. In *City politics and public policy*, ed. by James Q. Wilson, John Wiley and Sons, N.Y., pp. 127-49.

Reviews

The segregated covenant, by Willima Osborne. *Sociological Analysis*, 20:109-11.

SPANISH, ITALIAN, AND PORTUGUESE

BRAUN, LUCILLE V., Assistant Professor of Spanish

Articles

With M. Schwarz

New course in romance literature. *Foreign Language Courier*, 40:10-13.

El SAFFAR, RUTH S., Assistant Professor of Spanish

Articles

The function of the fictional narrator in Don Quijote. *Modern Language Notes*, 83, 2: 164-77.

SANCHEZ, JOSE, Professor

Books

Linguafilms. A directory of 16mm films of Spain and Latin America. Imprenta Cerón, Mexico City, 66 pp.

Reviews

Al pie de las letras, by Guillermo de Torre. *Hispania*, 4:929-30.

STUDENT COUNSELING SERVICE

BAER, JEAN H., Associate Professor of Education

Articles

New directions for the role of counselor in a small college. *J. Kansas Med. Society*, 69, 9:438-41.

BERMAN, LOUIS A., Associate Professor of Psychology

Books

Jews and intermarriage; a study in personality and culture. Thomas Yoseloff, A. S. Barnes and Co., Cranbury, N.J., 707 pp.

Articles

Decorum, prudery, and intermarriage. *Reconstructionist*, 34, 8:7-14.

CREASER, JAMES W., Instructor in Psychology

Articles

With E. B. Little

Undercorrection for chance success on multiple-choice examinations. *Improving College and University Teaching*, 16:106-9.

What is the score? *J. Educ. Res.*, 61:451-55.

Epistemic curiosity and man's higher nature. *Psych. Rpts.*, 23:615-25.

JOHNSON, JOHN E., Reading Therapist-Counselor

Articles

Improving habits of study-reading. *Western Coll. Rdg. Assn.*, 2, 1:5-6.

WOLF, THETA H., Counselor, Lecturer in Psychology

Articles

An individual who made a difference. In *Readings in educational psychology*, ed. by Rev. John B. Murray, C.M., St. John's Univ. Press, Jamaica, N.Y., pp. 152-55.

SYSTEMS ENGINEERING

AGARWAL, GYAN C., Assistant Professor

Articles

With R. Arzbaeher, J. Brodkey, D. Hendry, W. D. O'Neill, L. Stark

Status of research in biomedical engineering. *IEEE Trans. Biomed. Eng.*, BME, 15: 210-31.

With J. Schofer

Systems teams. *Consulting Engineer*, 30: 135-39.

With B. Berman, M. Hogins, P. Lohnberg, L. Stark

Achilles tendon reflex in normal human subjects. *Presbyterian-St. Luke's Hosp. Med. Bull.*, 7:74-93.

O'NEILL, WILLIAM D., Assistant Professor

Articles

With L. Stark

Triple function ocular monitor. *J. Opt. Soc. Amer.*, 58, 4:570-73.

With J. Doyle

A thin shell deformation analysis of the human lens. *Vision Research*, 8:193-206.

With G. Agarwal, R. Arzbaeher, J. Brodkey, D. Hendry, L. Stark

Status of research in biomedical engineering. *IEEE Trans. Biomed. Eng.*, BME, 15: 210-31.

SCHOFER, JOSEPH L., Assistant Professor

Articles

With E. N. Thomas

Information requirements for evaluating the social impacts of transportation. In *Transportation: a service*, The New York Academy of Sciences, N.Y., pp. 101-17.

Strategies for the evaluation of alternative transportation plans. *Urban Transportation*

Planning, AASHO Conference Proceedings, February, 1968, pp. 1-25.

Bulletins and Technical Reports

With E. N. Thomas

Prospects for innovative urban systems control. Center for Urban Studies, Univ. Ill. at Chicago Circle, Project H-980, U.S. Department of Housing and Urban Development, 44 pp.

URBAN STUDIES

GARRISON, WILLIAM L., Professor

Books Edited

With D. F. Marble

Quantitative geography, Vol. I. Studies in Geography, Dept. of Geography, Northwestern Univ., Evanston, Ill., 288 pp, 1967.

Quantitative geography, Vol. II. *Ibid.*, 323 pp.

Articles

Identifying alternative urban environments. In *Science, engineering, and the city*, a symposium sponsored jointly by the National Academy of Sciences and the National Academy of Engineering, publication 1498. National Academy of Sciences, Washington, D.C., pp. 99-102.

Bulletins and Technical Reports

With J. L. Schofer

Prospects for innovative urban systems control. Center for Urban Studies, Univ. Ill. at Chicago Circle, Project H-980, U.S. Department of Housing and Urban Development, 44 pp.

THOMAS, EDWIN N., Professor

Books

With J. L. Schofer

Strategies for the evaluation of alternative transportation plans. Report to National Cooperative Highway Research Program, Highway Research Board, National Research Council, Project 8-4, Transportation Center, Northwestern Univ., Evanston, Ill., 296 pp.

Articles

Transportation challenges. *JHSCT*, 2, 1: 8-21.

A system treatment of non-rail transit. Appendix C to *Decision and performance criteria for improved non-rail urban mass transit facilities and related urban transportation systems*. Report to Department of Housing and Urban Development by the Highway Research Board, Div. Engineering, National Research Council, National Acad. Sciences, Wash., D.C., pp. 93-109.

With J. L. Schofer

Toward the development of more responsive urban and transportation system models. *JHSCT*, 1, 2:154-201.

Information requirements for evaluating the social impacts of transportation. In *Transportation: a service*, The New York Academy of Sciences, N.Y., pp. 101-17.

Bulletins and Technical Reports

University responses to urban conditions: supportive relationships between HUD and the community. Center for Urban Studies, Univ. Ill. at Chicago Circle, Project H-980, U.S. Department of Housing and Urban Development, 66 pp.

With others

A goal achievement framework for implementation of social-physical planning in the City of Chicago. Center for Urban Studies, Univ. Chicago, 202 pp.

CHICAGO MEDICAL CENTER

ANATOMY

BARGHUSEN, HERBERT R., Assistant Professor

Articles

The lower jaw of Cynodonts (Reptilia, Therapsida) and the evolutionary origin of mammal-like adductor jaw musculature. *Postilla (Peabody Museum, Yale Univ.)*, 116:1-49.

LIEM, KAREL F., Associate Professor

Articles

Geographical and taxonomic variation in the pattern of natural sex reversal in the teleost fish order Symbranchiformes. *J. Zool., London*, 156:225-38.

With G. W. Barlow, W. Wickler

Babidae: A new fish family—behavioral, osteological and developmental evidence. *Ibid.*, pp. 415-47.

MacRAE, EDITH K., Professor

Articles

With G. D. Meets

Ammoniacal silver staining of the erythropoietic cells of the chick. *J. Histochem. Cytochem.*, 16:148-50.

Reviews

The cell biology of hydra, by Thomas L. Lentz, Yale. *J. Biol. Med.*, 49:249.

REYNOLDS, SAMUEL R. M., Professor and Head

Articles

With E. Freese, J. Bieniarz, R. Caldeyro-Barcia, C. Mendez-Bauer, L. Escarcena

Multiple simultaneous intervillous space pressures recorded in several regions of the hemochorial placenta in relation to functional anatomy of the fetal cotyledon. *Amer. J. Obstet. and Gynecol.*, 102, 8: 1128-34.

The female reproductive system. In *Reproduction and sexual behavior*, Indiana Univ. Press, Bloomington, Chapter 5.

The umbilical cord. In *The search for understanding*, ed. by Caryl P. Haskins, Carnegie Institution of Washington (*Distributed by Walker, New York*), p. 330.

REYNOLDS, W. ANN, Associate Professor

Books

With G. W. Parker, R. Reynolds

Mitosis and meiosis. Educational Methods, Chicago, 145 pp.

Articles

Teaching in four-year colleges and universities. *Amer. Biol. Teacher*, 33:276-79.

With R. M. Pitkin, R. C. Burchell

Contribution to amniotic fluid. *Amer. J. Obstet. and Gynecol.*, 100:834-38.

SCHMIDT, ANTHONY J., Professor

Books

Cellular biology of vertebrate regeneration and repair. Univ. Chicago Press.

Van ALTEN, PIERSON J., Associate Professor

Articles

With W. A. Cain, R. A. Good, M. D. Cooper

Gamma globulin production and antibody syn-

thesis in chickens bursectomized as embryos. *Nature*, 217:358-60.

With H. J. Meuwissen, F. H. Bach, R. A. Good

Influence of thymus and bursa on *in vitro* lymphocyte function. In *Birth defects*, (original article series IV), ed. by D. Bergsma and R. A. Good, pp. 253-56.

With A. M. Conway, A. A. Hirata

Passive cutaneous anaphylactic like reactions in young chicks. *Proc. Soc. Exp. Biol. and Med.*, 129:694-96.

ASSOCIATED MEDICAL SCIENCES

FIORELLA, BEVERLY J., Instructor, Curriculum in Medical Technology

Books Edited

With Others

Medical technology, a series, Lea and Febiger, Philadelphia.

Anti-microbial agents. Vol. 1, No. 3, 232 pp. Instrumental analysis using spectroscopy, Vol. 2, No. 1, 165 pp.

Instrumental analysis using physical agents, Vol. 2, No. 2, 179 pp.

FISHER, LAWRENCE A., Professor of Educational Psychology and Acting Director, School of Associated Medical Sciences

Articles

Training techniques in medical education—recent development in international techniques in general. *Indian J. Med. Educ.*, 7, 1,2:71-74.

Teacher training programme for medical education—the Illinois programme. *Ibid.*, 2:106-8.

FRENCH, RUTH M., Asst. Professor and Director, Curriculum in Medical Technology

Books

Dynamics of health care. McGraw-Hill Book Co., N.Y., 140 pp.

Books Edited

With Others

Medical technology, a series, Lea and Febiger, Philadelphia.

Anti-microbial agents, Vol. 1, No. 3, 232 pp. Instrumental analysis using spectroscopy, Vol. 2, No. 1, 165 pp.

Instrumental analysis using physical agents, Vol. 2, No. 2, 179 pp.

Articles

Education is becoming. *Amer. J. Med. Tech.*, 34:297-301.

Reviews

Learning medical terminology step by step, by C. G. Young and J. D. Barger. *Ibid.*, p. 128.

Complete planning for college, by Sidney Sulkin. *Ibid.*, p. 486.

Medicare in hospitals: issues and prospects, by H. M. and A. R. Somers. *Ibid.*, p. 623.

Elementary principles of instruments, by Leslie Lee. *Audio-Visual Lib. Bull. Suppl.*, p. 5.

Self-instruction in medical education, by Jerome Lysaught. *Ibid.*, p. 6.

Teacher-made tests, by John Green. *Ibid.*, p. 7.

Test scores and what they mean, by Howard Lyman. *Ibid.*, p. 7.

BIOLOGICAL CHEMISTRY

ARSENIS, CHARALAMPOS, Assistant Professor

Articles

With O. Touster

Purification and properties of an acid nucleotidase from rat liver lysosomes. *J. Biol. Chem.*, 243:5702-8.

With T. Maniatis, O. Touster

Intramitochondrial localization of the nicotinamide adenine dinucleotide and nicotinamide adenine dinucleotide phosphate-dependent xyloxy dehydrogenases. *Ibid.*, pp. 4396-99.

BEZKOROVAINY, ANATOLY, Associate Professor

Articles

With D. Grohlich, C. M. Gerbeck

Some physical-chemical properties of reduced-alkylated and sulphitolyzed human serum transferrins and hens-egg conalbumin. *Biochemistry*, 110, 4:765-70.

BINKLEY, STEPHEN B., Professor and Head of Department

Books

With M. E. Rafelson

Basic biochemistry. The Macmillan Co., N.Y., 383 pp.

Articles

With W. Asbun

Synthesis of 5-substituted pyrimidines. II. *J. Org. Chem.*, 33:140-42.

With C. Carpenter

Effect of p-fluorophenylalanine on chromosome replication in *Escherichia coli*. *J. Bacter.*, 96, 4:939-49.

With C. Hershberger

Chemistry and metabolism of 3-deoxy-d-mannoctulosonic acid. I. Stereochemical determination. *J. Biol. Chem.*, 243, 7:1578-84.

Chemistry and metabolism of 3-deoxy-d-mannoctulosonic acid. II. Practical synthesis and stability. *Ibid.*, pp. 1585-88.

BRUNNGRABER, ERIC G., Assistant Professor

Articles

With G. Whitney

Effect of ionic strength of eluting agents on behavior of sialomucopolysaccharides from rat brain on Sephadex G-200. *J. Chromatog.*, 32:749-50.

CENTURY, BERNARD, Assistant Professor

Articles

With M. K. Horwitt

Effect of dietary lipid upon some enzymes of significance in biogenic amine metabolism in the rat. *J. Nutrition*, 95:509-16.

With K. Rupp

Comment on microfluorometric determination of monoamine oxidase. *Biochem. Pharm.*, 17:2012.

COLE, EDMOND R., Assistant Professor

Articles

Hydrolysis of L-histidine methyl ester. I. The action of thrombin. *Thromb. Diath. Haemorrhag.*, 19, 3/4:321-33.

Hydrolysis of L-histidine methyl ester. II. Activity of various proteolytic enzymes with special reference to activators of human plasminogen. *Ibid.*, pp. 334-45.

DUBIN, ALVIN, Assistant Professor

Articles

With E. Berman, V. Valavanis

A micromethod for determination of lead in blood. *Clin. Chem.*, 14, 3:239-42.

With B. G. Sy, G. Dunea, F. Steigmann

The effect of glucose infusion on ammonia metabolism in liver failure. *Amer. J. Med. Sci.*, 256, 2:91-96.

A brief reminder of the role of body electrolytes. *Chicago Med.*, 71:23.

HANLON, MARY SUE, Assistant Professor

Articles

With I. M. Klotz

Near infra red spectroscopy in structural problems in biochemistry. *Devel. Appl. Spectroscopy*, 6:219-24.

With E. O. Major

Conformational studies on polyriboadenylic acid in ethylene glycol. *Biochemistry*, 7, 12:4350-58.

With B. B. Massie, E. B. Tüchener

Simultaneous schlieren and rayleigh interference optics in analytical ultracentrifugation. *Arch. Biochem. Biophys.*, 128, 3:753-61.

HARRISON, WILLIAM H., Associate Professor

Articles

With W. W. Whisler, B. J. Hill

Catecholamine oxidation and ionization properties indicated from H⁺ release, ³H exchange, and spectral changes which occur during ferricyanide oxidation. *Biochemistry*, 7, 9:3089-94.

With L. E. Scheving, P. Gordon, J. E. Pauly

Daily fluctuation (circadian and ultradian) in biogenic amines of the rat brain. *Amer. J. Physiol.*, 214, 1:166-73.

With L. E. Scheving, J. E. Pauly

A circadian rhythm in epinephrine levels in the rat suprarenal gland. *Ibid.*, 215, 4:799-802.

HAYASHI, JAMES A., Professor

Articles

With J. K. Pinter, A. N. Bahn

Extracellular streptococcal neuraminidase. *J. Bacteriol.*, 95, 4:1491-92.

With A. E. Kennedy, I. L. Shklair,

A. N. Bahn
Antibodies to cariogenic streptococci in man. *Arch. Oral Biol.*, 13:1275-80.

HORWITT, MAX K., Professor

Articles

With B. Century

Effect of dietary lipid upon some enzymes of significance in biogenic amine metabolism in the rat. *J. Nutrition*, 95:509-16.

With L. A. Witting, R. S. Krishnan

A. H. Sakr
Brain gangliosides of several species. *Anal. Biochem.*, 22:295-303.

Lipids, α -tocopherol, and the erythrocyte membrane. In *Vitamin and Hormones*, 26: 487-99.

KATHAN, RALPH H., Associate Professor

Articles

With L. E. Reichert, Jr., R. J. Ryan

Studies on the composition and properties of

immunochemical grade human pituitary follicle stimulating hormone (FSH): comparison with luteinizing hormone (LH). *Endocrin.*, 82:109-14.

Reviews

The chemical foundations of molecular biology, by Robert F. Steiner. *Amer. Biol. Teacher*, 30:62-63.

Introduction to molecular biology, by L. Jack Bradshaw. *Ibid.*, pp. 66-67.

The encyclopedia of biochemistry, by R. J. Williams, E. M. Landsford, Jr. *Ibid.*, pp. 224-25.

KUETTNER, KLAUS E., Assistant Professor

Articles

With H. L. Guenther, R. D. Ray

Lysozyme in proseous cartilage. *Calc. Tiss. Res.*, 1:299-305.

With L. W. Soble, R. Eisenstein, J. A. Yaeger

The influence of lysozyme on the appearance of epiphyseal cartilage in organ culture. *Ibid.*, 2:93-105.

MATTENHEIMER, HERMANN, Professor

Books

Current problems in clinical biochemistry. Vol. 1. *Praktische Enzymologie*, Verlag Hans Huber, Bern and Stuttgart, Switzerland and Germany, 388 pp.

Current problems in clinical biochemistry. Vol. II. *Enzymes in urine and kidney*, Verlag Hans Huber, Bern und Stuttgart, Switzerland and Germany, 308 pp.

Articles

With K. G. Thiele

The isoenzymes of lactate dehydrogenase in the nephron of the healthy human kidney. *Z. Klin. Chem. Klin. Biochem.*, 6:132-38.

Quantitative histochemie der enzyme. *Ibid.*, pp. 229-35.

RAFELSON, MAX E., JR., Professor

Books

With S. B. Binkley

Basic biochemistry. The Macmillan Co., N.Y., 383 pp.

Articles

With F. M. Booyse

Studies on human platelets. I. Synthesis of platelet protein in a cell-free system. *Biochim. Biophys. Acta*, 166, 3:668-97.

With F. M. Booyse, T. P. Hoveke

Studies on human platelets. II. Protein synthetic activity of various platelet populations. *Ibid.*, 157, 3:660-63.

With R. P. Sutter

Separation of β -factor synthesis from stimulated β -carotene synthesis in mated cultures of *Blakeslea trispora*. *J. Bacteriol.*, 95, 2:426-32.

RAJKUMAR, TARAKAD V., Assistant

Professor

Articles

With W. J. Rutter, E. Penhoet, M. Kochman, R. Valentine

Aldolase variants: structure and physiological significance. *Ann. N.Y. Acad. Sci.*, 151: 402-17.

SAMACHSON, JOSEPH, Assistant Professor

Articles

With J. Dennis, R. Fowler

Uptake of calcium strontium, and barium by

the surface of bone powder and bone mineral. *J. Dent. Res.*, 47:121-26.

With A. Schmitz

The reactions of H^+ and Zn^{2+} with the surfaces of bone and bone mineral. *Biochim. Biophys. Acta*, 170, 2:409-19.

With H. Spencer, E. P. Hardy, Jr., J. Rivera

Some aspects of the effects of age and of calcium intake on strontium-90 metabolism in man. *Health Physics*, 15:499-504.

Mechanism of exchange of inorganic phosphate with bone mineral and its relation to the mechanism of calcification. *Nature*, 218:1262-63.

SIMON, R. GERALD, Assistant Professor

Articles

With G. Rouser, G. Nelson, S. Fleischer

Lipid composition of animal cell membranes, organelles and organs. In *Biological membranes*, ed. by Chapman, Academic Press, N.Y., pp. 5-70.

With M. Cohon, J. Berry

Conversion of glutamate into aspartate in guinea pig cerebral-cortex slices. *Biochem. J.*, 107, 1:109-11.

With G. Rouser, G. Kritchevsky, A. Yomamoto

Accumulation of a glycerol phospholipid in classical Niemann-Pick disease. *Lipids*, 3:287-95.

SKY-PECK, HOWARD, Professor

Articles

With H. Wu, J. P. Lewis, F. E. Trobaugh, Jr.

Biochemical studies of spleens of heavily irradiated mice transfused with bone marrow. *Radiation Res.*, 33, 1:50-65.

SWIATEK, KENNETH R., Assistant

Professor

Articles

With D. M. Kipnis, G. Mason, K. L. Chao, M. Cornblath

Starvation hypoglycemia in newborn pigs. *Amer. J. Physiol.*, 214:400-05.

TITCHENER, EDWARD B., Associate

Professor

Articles

With D. E. Uddin

Rat liver carboxylesterase influence of age and sex on activity and kinetics of ester hydrolysis. *Comp. Biochem. Physiol.*, 26: 985-90.

With B. B. Massie, Mary Sue Hanlon

Simultaneous schlieren and rayleigh interference optics in analytical ultracentrifugation. *Arch. Biochem. Biophys.*, 128, 3:753-61.

WITTING, LLOYD A., Assistant Professor

Articles

With R. S. Krishnan, A. H. Sahr, M. K. Horwitz

Brain gangliosides of several species. *Anal. Biochem.*, 22:295-303.

WU, HSHIAO M., Instructor

Articles

With J. P. Lewis, H. H. Sky-Peck, F. E. Trobaugh, Jr.

Biochemical studies of spleens of heavily irradiated mice transfused with bone marrow. *Radiation Res.*, 33, 1:50-65.

CRANIOFACIAL ANOMALIES

ADUSS, HOWARD, Assistant Professor

Articles*With S. Pruzansky*Prevalence of arch collapse and malocclusion in complete unilateral cleft lip and palate. *Trans. Europ. Orthod. Soc.*, pp. 1-18.The width of the cleft at level of tuberosities in complete unilateral cleft lip and palate. *Plast. and Reconstr. Surg.*, 41, 2:113-23.

LAUTERSTEIN, AUBREY M., Associate Professor

Articles*With S. Pruzansky*Bilateral symmetry in mandibular apical tooth growth. *Arch. Oral Biol.*, 13, 9:1047-55.

PRUZANSKY, SAMUEL, Professor

ArticlesDiscussion of early treatment of cleft lip and palate including feeding of infants. *Trans. Europ. Orthod. Soc.*, pp. 410-14.Postnatal development of craniofacial malformations. *J. Dent. Res.*, 47:936.What is craniofacial biology? *Ibid.*, pp. 931-33.Congenital palatopharyngeal incompetence: Clinical radiographic, and genetic studies. *Ibid.*, p. 1013.*With H. Aduss*Prevalence of arch collapse and malocclusion in complete unilateral cleft lip and palate. *Trans. Europ. Orthod. Soc.*, pp. 1-18.The width of the cleft at level of tuberosities in complete unilateral cleft lip and palate. *Plast. and Reconstr. Surg.*, 41, 2:113-23.*With S. Berkowitz*Stereophotogrammetry of serial casts of cleft palate. *Angle Orthodont.*, 38, 2:136-49.*With C. Handelman*Occlusion and dental profile with complete bilateral cleft lip and palate. *Ibid.*, 3:185-98.*With A. Lauterstein*Bilateral symmetry in mandibular apical tooth growth. *Arch. Oral Biol.*, 13, 9:1047-55.*With L. Meskin, W. H. Gullen*An epidemiologic investigation of factors related to the extent of facial clefts. I. Sex of patient. *Cleft Palate J.*, 5:23-29.**DENTAL ADMINISTRATION**BRYANT, ROBERT E., Assistant Professor
Postgraduate and Teacher Education**Articles***With C. R. Berg, D. E. Killip*Application of the Getzels-Guba model to clinical teaching and teachers. *J. Dent. Educ.*, 32, 4:409-15.

MASSLER, MAURY, Assistant Dean, Postgraduate and Teacher Education and Professor in Pedodontics

Books*With L. Nedelsky*

Six seminars for dental educators. Univ. Ill. at Medical Center, Chicago, 75 pp.

ArticlesRole of research in the education of the dental student. *J. Dent. Educ.*, 32, 1:85-118.Clues to the creative mind (research on eidetic imagery). *Machine Design*, April 25, pp. 44-46.

NEDELSKY, LEO, Professor of Teacher Education

Books

Teaching and testing in dental education. Univ. Ill. at Medical Center, Chicago, 137 pp.

With M. Massler

Six seminars for dental educators. Univ. Ill. at Medical Center, Chicago, 75 pp.

WEISS, MARVIN B., Professor of Operative Dentistry

ArticlesThe preclinical technics curriculum. *J. Dent. Educ.*, 32, 4:385-89.

YALE, SEYMOUR H., Professor of Radiology and Dean, College of Dentistry

See Dental Radiology.**DENTAL RADIOLOGY**

WALLACE, DONALD A., Professor

Articles*With M. Lerner, B. L. Douglas, S. Coppersmith*Methodology in a study of the impact of water fluoridation on dental practice. In *Proceedings of the social statistics section of the American Statistical Association*, pp. 210-16.

YALE, SEYMOUR H., Professor and Dean, College of Dentistry

ArticlesThe application of computer programming principles to radiographic interpretation. *D. Clin. N. America*, Nov., pp. 625-30.The application of computer programming principles to radiographic interpretation. *Ibid.*, pp. 625-30.**DERMATOLOGY**

MANDREA, EUGENE, Clinical Assistant Professor

Articles*With L. Solomon*Pretibial myxedema recurring in graft. *Cutis*, 4, 4:442.

MEDANSKY, ROLAND S., Clinical Instructor

ArticlesTrends in the management of atopic dermatitis. *Cutis*, 4, 4:437-41.

POTTER, BRIAN, Associate Professor

ArticlesAutosensitivity erythema? *Arch. Derm.*, 97, Jan., pp. 42-49.Effective treatment of skin diseases. *Med. Times*, 96, 6:644-48.*With L. M. Solomon*How we treat superficial fungous infection. *Postgrad. Med.*, 43, 1:207-9.*With E. J. Liebner, H. Aram*Hodgkin's disease — cutaneous nodules preceding systemization. *Cutis*, 4, 4:415-19.

With M. Medenica

Ultramicroscopic phagocytosis of synthetic melanin by epidermal cells *in vivo*. *J. Invest. Derm.* 51, 4:300-03.

ROSTENBERG, ADOLPH, JR., Professor of Dermatology and Head of Department

Articles

With R. E. Pearson, H. Carlin

Non-prescription drugs in dermatology. *Cutis*, 4, 4:420-24.

With L. M. Solomon

Infantile eczema and systemic disease. *Arch. Derm.*, 98, July, pp. 41-46.

Jean Henri Fabre and the patch test. *Ibid.*, 98, August, pp. 188-190.

SHELLOW, HAROLD, Clinical Professor

Articles

Foreign body granuloma caused by snail shell — an enigma. *Cutis*, 4:53.

Botryoidal keloids — treatment with corticosteroids. *Cutis*, 4:462.

SOLOMON, LAWRENCE M., Assistant Professor

Articles

Cold dermatoses. *Derm. Dig.*, 7:51.

Quasimodo's diagnosis. *J.A.M.A.*, 204:190.

With B. Potter

How we treat superficial fungous infections. *Postgrad. Med.*, 43, 1:207-9.

With D. Fretzin, R. DeWald

The epidermal nevus syndrome. *Arch. Derm.*, 97:273-85.

With A. Rostenberg, Jr.

Infantile eczema and systemic disease. *Ibid.*, 98, July, pp. 41-46.

With A. Altman, K. Bader

Management of a giant nevus. *Cutis*, 4:434.

With B. Silver, K. Desai

Radiotherapy for erythema elevatum diutinum. *Cutis*, 4:425.

With E. Mandrea

Prebubial myxedema recurring in a graft. *Cutis*, 4, 4:442.

With L. Juhlin, B. Kirschenbaum

Prostaglandins on cutaneous vasculature. *J. Invest. Derm.*, 51:280-82.

With K. Desai

Phenylketonuria. *Cutis*, 4:1233-36.

With A. Rostenberg, Jr.

Jean Henri Fabre and the patch test. *Arch. Derm.*, 98, August, pp. 188-90.

With D. Fretzin

The epidermal nevus syndrome. *Cutis*, 4:1336.

Reviews

Textbook of dermatology, Vols. I and II, by A. M. Rook, M.D., D.S. Wilkinson, M.D., and E. J. G. Ebling, M.D. *Derm. Dig.*, November, p. 116.

The palms and soles in medicine, by Maurice J. Costello, M.D. and Richard C. Gibbs, M.D. *Arch. Intern. Med.*, 122, August, p. 187.

ENDODONTICS

CLEM, WILLIAM H., Associate Professor

Articles

Endodontics: advise and consent (editorial). *Dental Survey*, 44:60-62.

FOX, ROBERT Z., Instructor

Articles

With G. L. Hardy

Endodontic armamentarium for the general practitioner. *Dental Digest*, 47, 11:462-67.

MAURICE, CHARLES G., Professor and Head of Department

Articles

With members of Committee on Nomenclature, A.A.E.

An annotated glossary of terms used in endodontics. *Oral Surg., Oral Med., and Oral Path.*, 25, 3:491-512.

Reviews

Dental clinics of North America — November, 1967. Symposium on endodontics, by Herbert Schilder. *J.A.D.A.*, 76:837.

HISTOLOGY

GRIMM, ARTHUR F., Associate Professor

Articles

With W. V. Whitehorn

Myocardial length-tension-sarcomere relationships. *Amer. J. Physiol.*, 214:1378-87.

SABET, TAWFIK Y., Associate Professor

Articles

With C. Newlin, H. Friedman

The effect of RES blockade on cellular antibody formation to sheep erythrocytes. *Proc. Soc. Exp. Biol. and Med.*, 128:274-78.

With R. D. Ray

Failure of ribonuclease to inhibit the transfer of homograf sensitivity. *Clin. Orthopaedics and Rel. Res.*, 61:92-102.

WATERHOUSE, JOHN P., Acting Head

See Oral Pathology.

MEDICAL SOCIAL WORK

LARGE, DOROTHY L., Associate Professor

Reviews

Problems of psychotherapy, by Herbert Zucker. *Social Service Rev.*, 6:287.

MEUSER, MARY F., Assistant Professor

Articles

With H. L. Muslin, P. R. Singer, J. P. Leahy

Research and learning in psychiatric interviewing. *J. Med. Educ.*, 43, 3:398-404.

MEDICINE

ANDERSON, TRUMAN O., Associate Professor

Articles

With G. L. Bach, H. G. Griebble, R. H. Zschocke

Beitrag zum problem der standardisierung des latex-fixationstests zum nachweis des rheumafaktors. 1. Vergleich dreier verschiedener latex-fixationstests und nahere charakterisierung des gammaglobulin-"reaktant." *Acta Biol. Med. Germ.*, 20, 2:233-40.

With G. L. Bach, H. G. Griebble, R. Zschocke, F. Harter

Beitrag zum problem der standardisierung des latex-fixationstests zum nachweis des rheumafaktors. 2. Kunstliche polymere verschiedener grobe und chemischer struktur als Indikatoren beim nachweis des rheumafaktors. *Ibid.*, pp. 241-46.

With H. Levine, M. Szanto, H. G. Griebel, G. L. Bach
Rheumatoid factor in non-rheumatoid pleural effusions. *Ann. Int. Med.*, 69, 3:487-92.

BACH, GERHARD L., Instructor

Articles

With H. G. Griebel, R. Zschocke, T. O. Anderson

Beitrag zum problem der standardisierung des latex-fixationstests zum nachweis des rheumafaktors. 1. Vergleich dreier verschiedener latex-fixationstests und nahere charakterisierung des gammaglobulin-"reaktant." *Acta Biol. Med. Germ.*, 20, 2:233-40.

With H. G. Griebel, R. Zschocke, T. O. Anderson, F. Harter

Beitrag zur dem standardisierung des latex-fixationstests zum nachweis des rheumafaktors. 2. Kunstliche polymere verschiedener grobe und chemischer struktur als Indikatoren beim nachweis des rheumafaktors. *Ibid.*, pp. 241-46.

With H. Levine, M. Szanto, H. G. Griebel, T. O. Anderson

Rheumatoid factor in non-rheumatoid pleural effusions. *Ann. Int. Med.*, 69, 3:487-92.

Reviews

Pathologie des trauma, by Fischer and Spann. *Rev. Surgery*, 25, 3:225-26.

BENTLEY, DAVID W., Assistant Professor

Articles

With R. Haque, R. A. Murphy, M. H. Lepper
Biotyping, an epidemiologic tool for coagulase-negative staphylococci. In *Antimicrobial agents and chemotherapy*, pp. 54-59.

With M. H. Lepper

Septicemia related to indwelling venous catheter. *J.A.M.A.*, 206:1749-52.

BERG, MAX, Clinical Associate Professor

Articles

With M. Tausig, H. Heath, H. Necheles

Incidence of peptic ulcer complications, their relation to climate and age. *Amer. J. Gastroenterol.*, 50, 2:107-15.

BERNSTEIN, LIONEL M., Clinical Professor

Articles

With W. M. Hamby, M. B. Blumberg, K. Simpson

Unilateral renal function measurements: external ureteral compression compared with ureteral catheterization. *J. Lab. and Clin. Med.*, 71, 5:722-27.

BERRYMAN, GEORGE H., Clinical Associate Professor

Articles

On folic acid in pregnancy. *General Med.*, 38, 1:98-99.

With G. R. Hazel, J. D. Taylor, P. G. Sanders, M. S. Weinberg

A case for safety of cyclamate and cyclamate-saccharin combinations. *Amer. J. Clin. Nutr.*, 21, 6:673-87.

BEST, WILLIAM R., Associate Professor

Articles

Leukopenia, neutropenia, and agranulocytosis. In *Current therapy 1968*, ed. by H. F. Conn. W. B. Saunders Co., Philadelphia, pp. 227-29.

Coronary artery disease, diet, and statistics. *J.A.M.A.*, 203, 7:528.

With H. M. Schoolman, J. M. Becktel, A. F. Johnson

Statistics in medical research: principles versus practices. *J. Lab. and Clin. Med.*, 71, 3:357-67.

Reviews

Pathology of leukemia, by G. D. Amromin. *Arch. Int. Med.*, 122, 6:541-42.

The computer and medical care, by D. B. Lindberg. *J.A.M.A.*, 206, 8:1796.

The thymus. Its role in immune responses, leukemia development and carcinogenesis, by Dr. Melcalf. *Arch. Int. Med.*, 121, 4:386-87.

Clinical hematology, by M. M. Wintrobe. *J.A.M.A.*, 204, 2:179.

Laboratory medicine, hematology, by J. B. Miale. *Ibid.*, p. 179.

The principles of medical computing, by T. R. Taylor. *Ann. Int. Med.*, 68, 4:965.

BLAZEK, WILLIAM V., Instructor

Articles

With B. G. Nelson, J. R. Manaligod

Thymoma associated with pancytopenia and hypogammaglobulinemia. *Amer. J. Med.*, 44, 1:154-64.

BLUMBERG, MARTIN B., Clinical Instructor

Articles

With W. M. Hamby, L. M. Bernstein, K. Simpson

Unilateral renal function measurements. *J. Lab. and Clin. Med.*, 71, 5:722-27.

BRINEX, ALBIN M., Clinical Instructor

Articles

Electrocardiogram of the month. *Med-Dent. Staff Bull., St. Joseph Hosp.*, 11, 2:18-21.

BRONSKY, DAVID, Associate Professor

Articles

With R. T. Kiamko, S. S. Waldstein

Post therapeutic myxedema. *Arch. Int. Med.*, 121, 2:113-17.

Familial idiopathic hypoparathyroidism. *J. Endocrinol. and Metab.*, 28, 1:61-65.

With J. Eipe, S. A. Johnson, R. T. Kiamko

Hypoparathyroidism following I¹³¹ therapy for hyperthyroidism. *Arch. Int. Med.*, 121, 3:270-72.

With R. T. Kiamko, I. M. Rosenthal

Intrauterine hyperparathyroidism secondary to maternal hypoparathyroidism. *Pediatrics*, 42, 4:106-17.

CARLETON, RICHARD A., Professor

Articles

With P. H. Miller

Hemodynamic assessment during atrial fibrillation: the value of ventricular pacing. *Amer. J. Cardiol.*, 22:568-71.

With B. S. Chertov, L. J. Hertko

Pulmonary artery stenosis murmurs: a new diagnostic sign of pulmonary embolization. *Arch. Int. Med.*, 121, 1:97-100.

With J. G. Clark

Measurement of left ventricular diameter by cardiac catheterization: validation and physiologic meaningfulness of an ultrasonic technique. *Circulation Research*, 22:545-58.

CARTON, ROBERT W., Associate Professor

Articles

With J. C. Christolm, N. S. Cherniack

Results of pulmonary function in 5 persons

with the Marfan syndrome. *J. Lab. and Clin. Med.*, 71, 1:25.

Reviews

Lung calcifications in x-ray diagnosis, by Emanuel Salzman. *Ann. Int. Med.*, 69, 1:78.

CERCHIO, GERARD M., Assistant Professor

Articles

With A. L. Graber, B. Herl, D. Seiler

Organization of a diabetic clinic at a military hospital: a coordinated team approach. *Military Med.*, 133, 9:900-03.

COSTEA, NICOLAS V., Associate Professor

Articles

With V. Yakulis, P. Heller

The dependence of cold agglutinin activity on K chains. *J. Immunol.*, 99, 3:558-63.

With V. Yakulis, J. Schmale, P. Heller

Production of Fe fragments of IgM. *Ibid.*, 100, 3:525-29.

With V. Yakulis, J. A. Libnoch, C. G. Pitz, P. Heller

Two myeloma globulins (IgG and IgA) in one subject and one sell line. *Amer. J. Med.*, 42, 4:630-35.

Agranulocytosis. In *Current diagnosis #2*, ed. by Conn & Conn, W. B. Saunders Co., Philadelphia, pp. 336-37.

COTSONAS, NICHOLAS J., JR., Professor

Reviews

Emergencies in medical practice, by C. A. Birch. *Arch. Int. Med.*, 122, 1:88.

Bedside diagnosis of heart disease, armchair courses from Tampa Tracings. *Tampa Tracings*, 69, 3:645.

CZARNY, DANIEL, Instructor

Articles

With V. H. T. James, J. Landon, F. C. Greenwood

Corticosteroid and growth-hormone response to synthetic lysine-vasopressin, natural vasopressin, saline solution and venepuncture. *Lancet*, 2, 7560:126-29.

With J. Brostoff

Effect of intranasal betamethosone-17-valerate on perennial rhinitis and adrenal function. *Ibid.*, 2, 7561:188-90.

DEVETSKI, ROBERT L., Clinical Instructor

Articles

With Buechler, Shriber

Fetal heart rate monitoring in detection of drug-induced "Fetal Distress" syndromes. *Clinical Research*, 17, 3:432.

DOWLING, HARRY F., Professor and

Head of the Department

Articles

An overview of the use of combinations of antibiotics. In *Antimicrobial agents and chemotherapy*, pp. 234-35.

The changing character of clinical evaluation. In *Proceedings of the institute of drug literature evaluation, sponsored by the American Society of Hospital Pharmacists*, March 11-15, 1968, pp. 1-7.

The regulation of clinical investigation: some historical comments. In *Antimicrobial agents and chemotherapy*, pp. 13-15.

Why research on the subhuman primates? In *Proceedings of the conference on non-human primate toxicology, sponsored by*

the Food and Drug Administration, Department of Health, Education and Welfare, June 12-14, 1966.

FRIED, WALTER, Associate Professor

Articles

With C. W. Gurney

The erythropoietic stimulating effects of audiogens. *Ann. N.Y. Acad. Sci.*, 149, 1:356-65.

Regulation mechanism of the stem cell compartment. *J. Lab and Clin. Med.*, 71, 6: 948-54.

With J. Faura, C. W. Gurney

The effect of carbon dioxide on erythropoiesis. *Ann. N.Y. Acad. Sci.*, pp. 456-61.

With N. Rishpon-Meyerstein, T. Kilbridge, J. Simone

The effects of testosterone on erythropoietin levels in anemic patients. *Blood*, 31, 4: 453-60.

With H. Ward, A. Hopeman

Leiomyoma and erythrocytosis: a tumor producing a substance which increases erythropoietic production. *Ibid.*, 31, 6: 813-16.

With S. Krantz

In vitro behavior of stem cells. *J. Lab. and Clin. Med.*, 72, 1:157-64.

With T. Kilbridge

Response of mice with a decreased number of hematopoietic stem cells to doses of erythropoietin. *Ibid.*, pp. 85-92.

With C. W. Gurney, N. Rishpon-Meyerstein

The effect of testosterone of erythropoiesis of w_v mice. *Ibid.*, 70, 5:813-19.

The effect of hypoxia on colony forming units in bone marrow. *Ibid.*, 71, 3:422-28.

FRUIN, ROBERT C., Associate Professor

Articles

With P. B. Rozenthal, D. H. Hanscom

The endoscopic diagnosis of hiatus hernia. *Israel J. Med. Sci.*, 4:60-65.

GANTT, CLARENCE L., Associate Professor

Articles

With W. M. Hamby, G. J. Jankowski, J. M. Pouget, G. Dumca

Intravenous use of diazoxide in the treatment of severe hypertension. *Circulation*, 37, 2:169-74.

With L. R. Kizlaitis, D. R. Thomas, J. G. Greslin

Fluorescence of prostaglandin E₁. *Analyt. Chem.*, 40, 13:2190.

GOLDSTEIN, MELVIN J., Clinical Instructor

Articles

With H. Schachter, J. B. Kirsner

Surgery and clinical progression in patients with Crohn's disease of the small and large intestine. *Amer. J. Surg.*, 115, 3:376-84.

With G. L. Snider, M. Liberson, R. M. Poske
Bronchogenic carcinoma and giant bullous disease. *Amer. Rev. Resp. Dis.*, 97, 6: 1062-70.

With J. J. Fennessy

Esophageal biopsy utilizing a flexible brush. *Gastroint. Endosc.*, 15, 1:53-55.

GRAETTINGER, JOHN S., Professor

Articles

With J. J. Muenster

Chest pain in the surgical patient. *Med. Clin. N. Amer.*, 52, 1:91-101.

GRIEBLE, HANS G., Associate Professor

Articles

- With H. Levine, M. Szanto, G. L. Bach, T. O. Anderson
Rheumatoid factor in non-rheumatoid pleural effusions. *Ann. Int. Med.*, 69, 3:487-92.
- With G. L. Bach, R. H. Zschocke, T. O. Anderson
Beitrag zum problem der standardisierung des latex-fixationstests zum nachweis des rheumafaktors. 1. Vergleich dreier verschiedener latex-fixationstests und nahere charakterisierung des gammaglobulin-"reaktant." *Acta Biol. Med. Germ.*, 20, 2:233-40.
- With G. L. Bach, R. H. Zschocke, T. O. Anderson, F. Harter
Beitrag zum problem der standardisierung des latex-fixationstests zum nachweis des rheumafaktors. 2. Kunstliche polymere verschiedener grobe und chemischer struktur als Indikatoren beim nachweis des rheumafaktors. *Ibid.*, pp. 241-46.

GUNNAR, ROLF M., Professor

Articles

- With J. R. Tobin, Jr., J. P. Duffy
Acute rheumatic fever. In *Internal medicine based on mechanisms of disease*, ed. by P. J. Talso and A. P. Remenchik, pub. by C. V. Mosby Co., St. Louis, pp. 260-78.
- With J. R. Tobin, Jr.
Acquired valvular heart disease. *Ibid.*, pp. 279-300.
- With H. S. Loeb, A. Cruz, C. Y. Teng, J. Boswell, R. J. Pietras, J. R. Tobin, Jr.
Haemodynamic studies in shock associated with infection. *Brit. Heart J.*, 29, 6: 883-94.
- With H. S. Loeb, R. J. Pietras, J. R. Tobin, Jr.
Ineffectiveness of isoproterenol in shock due to acute myocardial infarction. *J.A.M.A.*, 202, 13:1124-28.
- Hemodynamic measurements in a coronary care unit. *Progress in Cardiovascular Diseases*, 11, 1:29-44.
- Paroxysmal ventricular fibrillation on two patients with hypomagnesemia. Treatment by transvenous pacing. *Circulation*, 37, 2: 210-15.
- With R. J. Pietras, C. Stavrakos, J. R. Tobin, Jr.
Phosphorus poisoning simulating myocardial infarction. *Arch. Int. Med.*, 122, 5:430-34.

HANSCOM, DONALD H., Clinical Assistant Professor

Articles

- Diseases of the pancreas. In *Internal medicine based on mechanisms of disease*, ed. by Talso and Remenchik, C. V. Mosby Co., St. Louis, pp. 538-44.
- Diagnostic tests in pancreatic disease. *Med. Clin. N. Amer.*, 52, 6:1483-1992.
- With P. Roenthal, R. C. Fruin
The endoscopic diagnosis of hiatus hernia. *Israel J. Med. Sci.*, 4:605.

HARDISON, WILLIAM G. M., Assistant Professor

Books Edited

- With J. C. Norman, F. Vieth, L. Rudolph, J. Folkman
Organ perfusion and preservation. Appleton-Century-Crofts, N.Y., 960 pp.

Articles

- With J. C. Norman
Electrolyte composition of the secretin fraction of bile from the perfused pig liver. *Amer. J. Physiol.*, 214, 4:758-63.
- HELLER, PAUL, Professor
- Articles
- The clinical significance of hemaglobulinopathies. *Postgraduate Med.*, Pt. 2, 43, 3:91-94; Pt. 1, 43, 2:63-67.
- With V. Yakulis
A simple and reliable test for sickling. *J.A.M.A.*, 203, 11:188.
- The clinical impact of abnormal hemoglobins. *Proc. Instit. Med. Chicago*, 27, 6:143-45.
- With N. V. Costea, V. Yakulis, J. Schmale
Light chain determinants of exocrine isoagglutinins. *J. Immunol.*, 101, 6:1248-50.
- With H. M. Ranney, L. Uden
Oxygen equilibrium off hemoglobin M hyde park. *Biochim. Biophys. Acta*, 160:112-15.

HOFFMAN, WILLIAM S., Lecturer

Articles

- Clinical evaluation of the effects of pesticides on man. *Indust. Med.*, 37, 4:289-92.
- HOLMES, ALBERT W., Associate Professor
- Articles
- With B. K. Buchner, J. C. Sinclair, F. Deinhardt
Studies to identify tissue culture isolates from patients with infectious hepatitis. *Canad. J. Pub. Health*, 59:399-404.
- With W. D. Hillis, V. Davison, E. V. Dahl
Serologic characterization of adenoviruses isolated from chimpanzees associate with viral hepatitis. *Proc. Soc. Exp. Biol. and Med.*, 129, 2:366-69.

HUSSEY, HUGH H., Clinical Professor

Articles

- Combating quackery. *Massachusetts Physician*, 27, 8:44-47.
- JACKSON, GEORGE G., Professor
- Articles
- With G. S. Saliba, S. L. Franklin
ECHO-11 as a respiratory virus: quantitation of infection in man. *J. Clin. Invest.*, 47, 6:1303-13.
- With M. J. Rosenbaum, P. DeBerry, E. J. Sullivan, E. A. Edwards, W. E. Pierce, R. L. Muldoon, R. O. Peckinpaugh
Characteristics of vaccine-induced and natural infections with adenovirus type 4 in naval recruits. *Amer. J. Epidemiol.*, 88:45-54.
- With W. E. Pierce, E. A. Edwards, R. O. Peckinpaugh, M. J. Rosenbaum
Live and inactivated adenovirus vaccines for the prevention of acute respiratory illness in naval recruits. *Ibid.*, 87, 1:237-46.
- Mass enteric live adenovirus vaccination during epidemic ARD. *J.A.M.A.*, 205, 1:5-10.

- With D. J. D'Alessio, V. M. Olexy
Oxilonic acid treatment of urinary tract infections. In *Antimicrobial agents and chemotherapy*, pp. 490-96.
- With L. P. Tremonti, J. S. Lin
Neutralizing activity in nasal secretions and serum in resistance of volunteers to para-influenza virus type 2. *J. Immunol.*, 101: 572-77.

- The pathogenesis and treatment of pyelonephritis. *J. Clin. Pharm. Therp. and Toxicol.*, 1, 5:408-12.
- JONES, PHILIP N.**, Clinical Associate Professor
- Articles**
 With R. B. Capps
 Cirrhosis of the liver. In *Current diagnosis*, ed. by H. F. Conn and R. B. Conn, Jr., pub. by W. B. Saunders Co., Philadelphia, pp. 492-94.
- KAPLAN, ERVIN**, Professor
- Articles**
 With M. Ben-Porath, L. Case
 The biological half life of 75-selenomethionine in man. *J. Nuclear Med.*, 9:168-69.
 With E. B. Miller, E. L. Kanabrocki, L. F. Case, L. A. Graham, T. Fields, Y. T. Oester
 Non-biolyzable manganese, copper and sodium in human bile. *Ibid.*, 8:891-95.
 With C. M. Cho, J. Greco
 Ion binding measurement by isotopic exchange. *Ibid.*, 9, 5:175-77.
 With E. L. Kanabrocki, L. F. Case, L. A. Graham, T. Fields, Y. T. Oester
 Neutron activation studies of trace elements in human fingernail. *Ibid.*, 9:478-81.
 With E. L. Kanabrocki, L. E. Sheving, J. E. Pauly
 Neutron activation analysis—a tool in medicine. *Chicago Med. School Qt.*, 27, 3: 151-63.
 A 24-hour rhythm in serum copper and manganese levels of normal and adrenal medullectomized adult male rats. *Texas Rep. Biol. and Med.*, 26:3L341-47.
- KARK, ROBERT M.**, Professor
- Articles**
 Some aspects of nutrition and the kidney. In *Modern nutrition in health and disease*, ed. by M. C. Wolf and R. S. Goodhard, pub. by Lee and Ferber, Philadelphia, pp. 819-51.
 Anatomy of the nephron. In *Renal failure*, ed. by A. N. Brest and J. H. Moyer, pub. by J. D. Lippincott Co., Philadelphia, pp. 3-12.
 With V. K. G. Pillay, D. M. Wilson, T. S. Ing
 Fungus infection in steroid-treated systemic lupus erythematosus. *J.A.M.A.*, 205, 5: 261-65.
 Renal biopsy. *Ibid.*, 4:80-86.
 The importance of urinalysis. *Eaton GU Review*, 2, 2:6-15.
 With F. D. Schwartz, V. K. G. Pillay
 Proteinuria in malignant hypertension. *Lancet*, 2, 7581:263-64.
- KATHAN, RALPH H.**, Associate Professor
 See Biological Chemistry.
- KEER, LARY M.**, Instructor
- Articles**
 Hypogonadism. In *Internal medicine based on mechanisms of disease*, ed. by A. P. Remenchik and P. J. Talso, pub. by C. V. Mosby Co., St. Louis, pp. 608-16.
- KILBRIDGE, THOMAS M.**, Instructor
- Articles**
 With N. Rishpon-Meyerstein, J. Simone, W. Fried
 The effect of testosterone on erythropoietin levels in anemic patients. *Blood*, 31, 4: 453-60.
 With W. Fried
 Response of mice with a decreased number of hematopoietic stem cells to doses of erythropoietin. *J. Lab. and Clin. Med.*, 72, 1:85-92.
- KNOSPE, WILLIAM H.**, Assistant Professor
- Articles**
 With R. Klatt, J. E. Bergin, C. B. Jacobson, M. E. Conrad
 Cytogenetic studies in chronic granulocytic leukemia during blast crisis: Two Ph chromosomes and hyperdiploidy. *Amer. J. Med. Sci.*, 254, 6:816-23.
 With J. Blom, W. H. Crosby
 Regeneration of locally irradiated bone marrow. II. Induction of regeneration in aplastic marrow cavities. *Blood*, 31:400-405.
 With M. E. Conrad, A. L. Fox, H. L. Williams
 Effect starvation and protein depletion upon ferro-kinetics and iron absorption. *Amer. J. Physiol.*, 213, 3:557-65.
- KORNEL, LUDWIG**, Professor
- Articles**
 With R. Takeda
 Studies on steroid conjugates: V. Urinary 17-hydroxycorticosteroids in essential hypertension. *J. Clin. Endocrinol. and Metab.*, 27, 2:233-41.
 With R. E. Schrohenloher, R. C. Caldwell
 Isolation from plasma of an α -1-glycoprotein resembling "orosomucoid." A simple method for its estimation in blood and tissues. *Arch. Biochim. Biophys.*, 122, 2: 280-88.
 A new diagnostic test in Cushing's syndrome. *Clinical Research*, 15, 61:61.
 Corticosteroids in human blood: III. Plasma levels of free and conjugated 17-hydroxycorticosteroids in normal subjects and patients with Cushing's syndrome before and after administration of corticotropin. *Acta Endocrinol.*, 59:797-803.
- LEVINE, HAROLD**, Assistant Professor
- Articles**
 Needle biopsy diagnosis of tuberculosis peritonitis. *Amer. Rev. Resp. Dis.*, 97:889-94.
 With P. Szanto, D. W. Cugell
 Tuberculosis pleurisy, an acute illness. *Arch. Int. Med.*, 122, 4:329-32.
 With M. Szanto, H. Griebler, G. L. Bach, T. O. Anderson
 Rheumatoid factor in non-rheumatoid pleural effusion. *Ibid.*, 69, 3:487-92.
- LEVITAN, RUVEN**, Associate Professor
- Articles**
 With S. Cohen, L. D. Harris
 Manometric characteristics of the human ileocecal junctional zone. *Gastroenterology*, 54, 1:72-75.
 With R. B. Zurier, J. F. Patterson
 Relationship between net water absorption and hexanoic acid absorption from the intact heman jejunum. *Amer. J. Digest. Dis.*, 13, 2:109-12.
 With F. Rodriguez-Erdmann
 Gastrointestinal and roentgenological manifestations of henoch-schoenlein purpura. *Gastroenterology*, 54, 2:260-64.
 The human colon: its study and absorptive functions. *Israel J. Med. Sci.*, 4, 1:140-45.

With S. L. Grobach, L. Nahas, A. G. Plaut, L. Weinstein, J. F. Patterson

Studies of intestinal microflora. V. Fecal microbial ecology in ulcerative colitis and regional enteritis: relationship to severity of disease and chemotherapy. *Gastroenterology*, 54, 4:575-87.

With E. Havivi

Hexokinase activity in intestinal mucosa of hypophysectomized rats. *Amer. J. Physiol.*, 215, 2:330-33.

With I. Maurer

Effect of intravenous antidiurectic hormone administration on salt and water absorption. *J. Lab. and Clin. Med.*, 72:739.

With T. J. Zaccheo

The effect of hypophysectomy on intestinal glucose transport in the rat. *Amer. J. Gastroenterol.*, 49, 4:349-54.

With Y. Havivi, E. Havivi

Histology and chemical composition of the small bowel of hypophysectomized rats. *Amer. J. Digest. Dis.*, 13, 8:735-42.

With S. A. Somkin

Effect of hypophysectomy on fat absorption in the rat. *Ibid.*, 13, 8:743-46.

LITTMAN, ARMAND, Professor

Articles

Disease of the stomach. In *Internal medicine based on mechanisms of diseases*, ed. by A. P. Remenchik and P. J. Talso, C. V. Mosby Co., St. Louis, pp. 488-97.

Disaccharidase deficiencies. *Ibid.*, pp. 514-15.

Disease of the gallbladder. *Ibid.*, pp. 516-18.

Functional disease. *Ibid.*, pp. 545-46.

With A. B. Cady, J. Rhodes

Lactase and other disaccharidase deficiencies in a hospital population. *Israel J. Med. Sci.*, 4:110-16.

With J. W. Yates, A. Treger

Camptodactyly: a kindred study. *J.A.M.A.*, 206, 7:1565-66.

Reviews

Functional gastrointestinal disease, by E. D. Palmer. *Ann. Int. Med.*, 68, 2:499-50.

LOEB, HENRY S., Assistant Professor

Articles

With R. J. Pietras, R. M. Gunnar, J. R. Tobin, Jr.

Paroxysmal ventricular fibrillation in two patients with hypomagnesemia. Treatment by tranvenous pacing. *Circulation*, 37, 2: 210-15.

Hemodynamic measurements in a coronary care unit. *Progress in Cardiovascular Diseases*, 11, 1:29-44.

LOURENCO, RUY V., Associate Professor

Articles

With E. P. Mueller

On-line subtraction of the cardiac activity from the esophageal electromyogram of the diaphragm. *IEEE Trans. on Bio-medical Engineering*, 15:115-18.

With J. A. Miranda

Influence of diaphragm activity on the measurement of total chest compliance. *J. Appl. Physiol.*, 24, 6:741-46.

Drive and permanence of the ventilatory apparatus in chronic obstructive lung disease. *New Engl. J. Med.*, 279, 2:53-59.

With G. M. Turino, G. McCracken

Role of connective tissues in large pulmonary airways. *J. Appl. Physiol.*, 25, 4:645.

McCREARY, PATRICIA A., Clinical Instructor

Articles

With H. Battifora, B. Hahneman, G. Laing, G. Hass

Chronic magnesium deficiency in the rat: studies of chronic myelogenous leukemia. *Arch. Pathol.*, 86:610-20.

MILLER, GEORGE E., Professor; Director, Office of Research in Medical Education

Articles

With J. W. Williamson, M. Alexander

Priorities in patient-care research and continuing medical education. *J.A.M.A.*, 204, 4:303-8.

Orthopaedic training study. *Ibid.*, 206, 3: 601-6.

MONTGOMERY, MAX M., Professor

Articles

With R. R. Wasserman, Y. T. Oester, R. S. Oryshkevich, R. M. Poske, A. Ruksha

Electromyographic, electrodiagnostic, and motor nerve conduction observations in patients with rheumatoid arthritis. *Arch. Phys. Med.*, 49:90-95.

With R. M. Poske

Less common types of arthritis. *Disease-a-month*, Year Book Med. Pubs., Chicago, 45 pp.

Reviews

Lectures in medicine, by C. W. H. Harvard. *Ann. Int. Med.*, 69, 1:177-78.

Guide to steroid therapy, by Picton Thomas. *Ibid.*, p. 850.

MUEHRCKE, ROBERT C., Clinical

Associate Professor

Articles

With K. Dunea, S. Nakamoto, F. D. Schwartz

Thrombocytic thrombocytopenic purpura with acute amuric renal failure. *Amer. J. Med.*, 41, 6:1000-1006.

With V. E. Pollak, S. Rosen, C. L. Pergni, R. M. Kark

The natural history of lipidnephrosis and of membranous glomerulonephritis. *Ann. Int. Med.*, 69, 6:1171-96.

Books

Emergency manual, treatment of modern medical emergencies (2nd ed.), ed. by Dr. John, Yearbook Med. Pubs., Chicago, 318 pp.

MUFSON, MAURICE A., Assistant Professor

Articles

With R. Kawana, H. H. Bloom, F. Gorstein, R. M. Chanock

Pathogenicity of coxackie A-21 virus for suckling mice. *Proc. Soc. Exp. Biol. and Med.*, 128:237-46.

Medical progress—*mycoplasma pneumoniae* pneumonia. *Ill. State Med. J.*, 133:267-72.

Therapy of viral infection of the respiratory tract. In *Current therapy* (20th ed.), ed. by H. H. Conn, pub. by W. B. Saunders, Philadelphia, pp. 123-24.

NAUGHTON, JOHN P., Associate Professor;

Coordinator, Rehabilitation Center

Articles

With C. Neal, C. Smith, K. Dubowski

3-methoxy-4-hydroxymandelic acid excretion during physical exercise. *J. Appl. Physiol.*, 24, 5:619-21.

With M. T. Lategola

Cardiorespiratory adjustment during exercise in patients with healed myocardial infarction. *J. Ark. State Med. Assn.*, 65:241-44.

With J. G. Bruhn, M. T. Lategola

Effects of physical training on physiologic and behavioral characteristics of cardiac patients. *Arch. Phys. Med. and Rehab.*, 49:131-37.

Regular physical activity and the cardiac patient. *Geriatrics*, 23, 9:157-64.

With M. T. Lategola, C. M. Brake, P. Lyne

Electrocardiographic monitoring during physical activity. *Cardiology Digest*, 3, 4:31-36.

Cardiorespiratory endurance before and after regular physical activity. *Minnesota Med.*, 51, 5:619-23.

With K. S. Shadaksharappa

An unusual triad of congenital cardiac defects. *J. Oklahoma M. A.*, 61:225-28.

NEUHAUS, HERBERT, Clinical Assistant Professor

Articles

With N. S. Cherniack

A bronchspirometric method of estimating the effect of pneumonectomy on the maximum breathing capacity. *J. Thorac. Surg.*, 55, 1:144-48.

NEUSTADT, JEROME E., Clinical Instructor

Articles

Hemorrhagic pleural effusion in Meig's syndrome. *J.A.M.A.*, 204, 1:179.

NORA, JOSEPH R., Clinical Assistant Professor

Articles

With E. H. Cohen

A case of post-pericardiectomy syndrome pathogenetic consideration. *Ill. Med. J.*, 134, 1:57, 8-101.

With G. E. Nora, M. Fitzgerald

Alkaptonuria: report of six cases. *Ibid.*, 132, 746:681-85.

NORTHROP, GRETAJO, Instructor

Articles

Effects of adrenergic blocking agents on epinephrine and 3',5'-AMP-induced in the perfused rat liver. *J. Pharm. Exp. Ther.*, 159, 1:22-28.

PAP, LUCIA T. F., Clinical Instructor

Articles

Environmental protection for the allergic asthmatic. *Bull. Winnebago County Med. Soc.*, 29, 6:4-6.

PERLIA, CHARLES P., Assistant Professor

Articles

With N. W. Ream, J. M. Wolter, S. G. Taylor, III

Mithramycin therapy in disseminated germinal testicular cancer. *J.A.M.A.*, 204, 12: 1030-36.

PFUETZE, KARL H., Clinical Professor

Articles

With R. H. Hubble

Non-tuberculous mycobacterial diseases. *Disease-a-month*, Year Book Med. Pubs., Chicago, 38 pp.

PIETRAS, RAYMOND J., Assistant Professor

Articles

With C. Stavrakos, R. M. Gunnar, J. R. Tobin, Jr.

Phosphorus poisoning simulating acute myocardial infarction. *Arch. Int. Med.*, 122, 5:430-34.

With H. S. Loeb, R. M. Gunnar, J. R. Tobin, Jr.

Paroxysmal ventricular fibrillation in two patients with hypomagnesemia. Treatment by transvenous pacing. *Circulation*, 37, 2: 210-15.

Hemodynamic measurements in a coronary care unit. *Progress in Cardiovascular Disease*, 11, 1:29-44.

POLLAK, VICTOR E., Clinical Associate Professor

Articles

With C. L. Pirani

Renal involvement in toxemia of pregnancy. In *Structural basis of renal disease*, ed. by E. L. Baker, pub. by Paul B. Hoeber, N.Y., pp. 401-27.

With A. Kanter, N. Nadler, R. M. Vertel

Peritoneal dialysis: indications and technique in the surgical patient. *Surg. Clin. N. Amer.*, 48, 2:47-56.

With M. Gaizutic, J. Rezaian

Serum proteins in urine: an examination of a new method for concentrating urine. *J. Lab. and Clin. Med.*, 71:338-44.

With E. Rosenmann, C. L. Pirani

Renal vein thrombosis: a clinical and pathologic study based on renal biopsies. *Medicine*, 47, 4:269-335.

With R. A. Bacani, F. Velaquez, A. Kanter, C. L. Pirani

Rapidly progressive (non-streptococcal) glomerulonephritis. *Ann. Int. Med.*, 69, 3: 463-85.

With S. Rosen, C. L. Pirani, R. C. Muehrcke, R. M. Kark

The natural history of lipid nephrosis and of membranous glomerulonephritis. *Ann. Int. Med.*, 69, 6:1171-96.

With T. B. Strom, B. S. Levin, G. J. Dohrmann

The effects of antithymocyte globulin in NZB-NZW₁ mice. *Proc. Soc. Exp. Biol. and Med.*, 129:261-64.

POSKE, ROBERT M., Associate Professor

Articles

With R. R. Wasserman, Y. T. Oester, R. S. Oryshkevich, M. M. Montgomery, A. Ruksha

Electromyographic, electrodiagnostic, and motor nerve conduction observations in patients with rheumatoid arthritis. *Arch. Phys. Med.*, 49:90-95.

With M. M. Montgomery

Less common types of arthritis. *Disease-a-month*, Year Book Med. Pubs., Chicago, 45 pp.

Reviews

The surgical relief of pain in arthritis disease, the hip and knee joints, by R. A. Herfort. *Ann. Int. Med.*, 69, 1:186-87.

POUGET, JEAN M., Assistant Professor

Articles

With W. M. Hamby, G. J. Jankowski, G. Dunea, C. L. Gantt

Intravenous use of diazoxide in the treatment

of severe hypertension. *Circulation*, 37, 2: 169-74.

PYLE, MARJORIE M., Clinical Associate Professor

Articles

With H. T. Langston, W. L. Barker

Pulmonary surgery for tuberculosis. In *Leavis' practice of surgery*, ed. by F. H. Ellis, pub. by W. F. Prior Co., Inc., Hagerstown, pp. 1-70.

Treatment of tuberculosis. In *Current therapy*, ed. by H. F. Conn, pub. by W. B. Saunders Co., Philadelphia, London, pp. 113-23.

RYAN, WILL G., Assistant Professor

Articles

With W. R. Tucker, B. F. Martin, T. B. Schwartz

Studies in a patient with retroperitoneal sarcoma associate with severe hypoglycemia. *Ann. N.Y. Acad. Sci.*, 150, 2:395-405.

With A. F. Nibbe, T. B. Schwartz, R. D. Ray
Fibrous dysplasia of bone with vitamin D resistant rickets—a case study. *Metabolism*, 17, 2:988-98.

Reviews

Textbook of endocrinology, by R. H. Williams. *Ann. Int. Med.*, 69, 1:184.

SAMTER, MAX, Professor

Articles

With N. V. Costea, M. Schulman, M. E. Tardy
Answers to questions on allergic emergencies. *Hospital Med.*, 4, 11:61-74.

With R. F. Beers, Jr.

Intolerance to aspirin. *Ann. Int. Med.*, 68, 5:975-83.

Reviews

Bronchial asthma—a genetic, population and psychiatric study, by D. Leigh and E. Marley. *Ann. Int. Med.*, 69, 1:178-79.

Delayed hypersensitivity, by A. Neuberger and E. L. Tatum. *J.A.M.A.*, 206, 7:1577.

SAPIENZA, ANTHONY R., Clinical Assistant Professor

Articles

With R. Stoner, A. Vass

Serum creatine phosphokinase activity in myocardial infarction: its diagnostic and prognostic significance. *Chicago Med. School Q.*, 27, 2:114-17.

SCHMIDT, ALEXANDER M., Associate Professor; Associate Dean, College of Medicine

Articles

With G. Tikoff, T. J. Tsagaris

Isoproterenol induced right ventricular infundibular obstruction. Study in an adult with a large ventricular septal defect. *Amer. J. Cardiol.*, 20:873-78.

With R. Q. Marston

Regional medical programs—a progress report. *Amer. J. Pub. Health*, 58, 4:726-30.

With G. Tikoff, H. H. Hecht

Atrial fibrillation in atrial septal defect. *Arch. Int. Med.*, 121, 5:402-5.

SCHWARTZ, THEODORE B., Professor

Books

Yearbook of endocrinology. Yearbook Publishers, Chicago, 423 pp.

Articles

With C. L. Meinert

The relationship of treatment to weight in a randomized study of maturity onset-diabetes. *Ann. N.Y. Acad. Sci.*, 148, 3:875.

Who is diabetic? *Ann. Int. Med.*, 69, 1: 161-63.

SHARP, JOHN T., Professor

Articles

With R. VanLith, C. V. Nuchpragoon, R. Brinen, F. N. Johnson

The thorax in chronic obstructive lung disease. *Amer. J. Med.*, 44, 2:39-46.

With G. J. Kanber, F. W. King, V. R. Eshchar

The alveolar-arterial oxygen gradient in young and elderly men during air and oxygen breathing. *Amer. Rev. Resp. Dis.*, 97, 3:376-81.

STEIGMANN, FREDERICK, Clinical Associate

Articles

With D. Long, R. Mejicano

Lymphatic decompression therapy of "intractable" ascites. *Amer. J. Gastroenterol.*, 50, 1:47-54.

With F. Villa, S. De Guzman

Peritoneoscopy findings in ascites. *Gastroint. Endoscopy*, 15, 1:48-50.

With F. Sy, G. Dunea, A. Dubin

The effect of glucose infusion on ammonia metabolism in liver failure. *Amer. J. Med. Sci.*, 256, 2:91-96.

STERN, IVAN J., Lecturer

Articles

With F. Cosmas, L. Smith

Urinary polyuronic acid excretion in man after enzymic dissolution of the chondromucoprotein of the intervertebral disc or surgical stress. *Clinica Chimica Acta*, 21:181-90.

SUSMANO, ARMAND, Instructor

Articles

With C. K. Tashima

Idiopathic hypertrophic osteoarthropathy touraine-solents-gole syndrome. *Amer. Heart J.*, 76, 4:582-84.

TAYLOR, SAMUEL G., III, Professor

Articles

With N. W. Ream, C. P. Perlia, J. M. Wolter

Mithramycin therapy in disseminated germinal testicular cancer. *J.A.M.A.*, 204, 12: 1030-36.

TENG, CHENG Y., Clinical Instructor

Articles

With H. E. Bessinger, J. Silver, E. Evaristo, E. Chuea, F. Becker, P. Rothmund

Intense cardiac care—two years experience. *Ill. Med. J.*, 134, 6:737-41.

TOBIN, JOHN R., JR., Lecturer

Articles

With J. P. Duffy

Congenital heart malformations. In *Internal medicine based on mechanisms of disease*, ed. by P. J. Talso, A. P. Remenchik, pub. by C. V. Mosby Co., St. Louis, pp. 217-59.

With H. S. Loeb, R. J. Pietras, R. M. Gunnar
Paroxysmal ventricular fibrillation in two patients with hypomagnesemia. Treatment by transvenous pacing. *Circulation*, 37, 2: 210-15.

Hemodynamic measurements in a coronary care unit. *Progress in Cardiovascular Diseases*, 11, 1:29-44.

With J. P. Duffy, R. M. Gunnar

Acute rheumatic fever. In *Internal medicine based on mechanisms of disease*, ed. by P. J. Talso and A. P. Remenchik, pub. by C. V. Mosby Co., St. Louis, pp. 260-78.

With R. M. Gunnar

Acquired valvular heart disease. *Ibid.*, pp. 279-300.

TRAUT, EUGENE E., Clinical Associate Professor

Articles

With C. B. Thrift

Fibrositis. *J. Amer. Geriatrics Soc.*, 16, 5:531-38.

TROBAUGH, FRANK E., Professor

Articles

With L. F. O'Grady, J. P. Lewis

The effect of erythropoietin in differentiated erythroid precursors. *J. Lab. and Clin. Med.*, 71, 4:693-701.

With H. M. Wu, J. P. Lewis, H. H. Sky-Peck

Biochemical studies of spleens of heavily irradiated mice transfused with bone marrow. *Radiation Research*, 33, 1:50-65.

With R. D. Lange, L. F. O'Grady, J. P. Lewis

Application of erythropoietin antisera to studies of erythropoiesis. *Ann. N.Y. Acad. Sci.*, 149:281-91.

The effect of erythropoietin on transplanted hematopoietic tissues. *Amer. J. Physiol.*, 215, 1:176-82.

With J. P. Lewis, M. Passovoy, M. Frceman

The repopulating potential and differentiation capacity of hematopoietic stem cells from the blood and bone marrow of normal mice. *J. Cell Physiol.*, 71, 2:121-32.

Studies of hematopoiesis in murine spleens: significance of hematopoietic colonies formed on the surface of spleens. *Cell and Tissue Kinetics*, 1:101-9.

TUCKER, W. RANDOLPH, Assistant Professor

Books

With J. A. Campbell, I. R. Turner

Report of education in the health fields for state of Illinois board of higher education. State Board of Higher Education, Ill. 625 pp.

With B. D. Martin, T. B. Schwartz

Studies in a patient with retroperitoneal sarcoma associated with severe hypoglycemia. *Ann. N.Y. Acad. Sci.*, 150, 2:395-405.

WILLIAMS, GERALD A., Associate Professor

Articles

Pituitary diseases. In *Textbook of gynecologic endocrinology*. Hoeber Med. Div. of Harper & Row, pub., N.Y., pp. 51-63.

Diseases of the parathyroid glands and calcium metabolism. In *Internal medicine based on mechanisms of disease*, ed. by P. J. Talso and A. P. Remenchik, pub. by C. V. Mosby Co., St. Louis, pp. 569-79.

ZELKOWITZ, LEO, Assistant Professor

Articles

With G. K. Arimura, A. A. Yunis

Chloramphenicol and protein synthesis in mammalian cells. *J. Lab. and Clin. Med.*, 71, 4:596-609.

MICROBIOLOGY

ANDERSON, TRUMAN O., Associate Professor

See Medicine.

DEINHARDT, FRIEDRICH, Professor

Articles

With R. D. Smith

Unique cytoplasmic membranes in rous virus-induced tumors of a subhuman primate. *J. Cell. Biology*, 37:819-23.

With Barbara B. Buchner, J. C. Sinclair, A. W. Holmes

Studies to identify tissue culture isolates from patients with infectious hepatitis. *Canad. J. Public Health*, 59:399-404.

DRAY, SHELDON, Professor

Articles

With D. E. Thor, R. E. Jureziz, S. R. Veach, Ellen Miller

Cell-migration-inhibition factor released by antigen from human peripheral lymphocytes. *Nature*, 219:755-57.

With D. E. Thor

The cell-migration-inhibition correlate of delayed hypersensitivity. Conversion of human nonsensitive lymph node cells to sensitive cells with an RNA extract. *J. Immunol.*, 101:469-80.

A correlate of human delayed hypersensitivity: Specific inhibition of capillary tube migration of sensitized human lymph node cells by tuberculin and histoplasmin. *J. Immunol.*, 101:51-61.

With Katherine L. Knight

Identification and genetic control of two rabbit alpha₂-macroglobulin allotypes. *Biochemistry*, 7:1165-71.

Contribution of allelic genes to the formation of individual alpha₂-macroglobulin molecules. *Biochemistry*, 7:3830-35.

With J. J. Albers

Identification and genetic control of two rabbit low-density lipoprotein allotypes. *Biochem. Genetics*, 2:25-35.

With Marian E. Koshland, R. A. Reisfeld

Differences in amino acid composition related to allotypic and antibody specificity of rabbit IgG heavy chains. *Immunochem.*, 5: 471-83.

With R. E. Jureziz, D. E. Thor

Transfer with RNA extracts of the cell-migration-inhibition correlate of delayed hypersensitivity in the guinea pig. *J. Immunol.*, 101:823-29.

HAQUE, RIAZ-UL, Assistant Professor

Articles

With D. W. Bently, R. Murphy, M. H. Lepper

Biotyping an epidemiological tool for coagulase-negative staphylococci. In *Antimicrobial agents & chemotherapy*, pp. 54-59.

KEMPF, JOHN E., Professor

Articles

With J. V. Kopp, A. V. Kroeger

Cytoplasmic inclusions observed by electron microscopy late in influenza virus infection of chicken embryo fibroblasts. *Virology*, 36: 381-83.

KNIGHT, KATHERINE, Assistant Professor

Articles

With S. Dray

Contribution of allelic genes to the formation of individual alpha₂-macroglobulin molecules. *Biochemistry*, 7:3830-35.

Identification and genetic control of two rabbit alpha₂-macroglobulin allotypes. *Ibid.*, pp. 1165-71.

KROEGER, ARTHUR V., Associate Professor

Articles

With J. V. Kopp, J. E. Kempf

Cytoplasmic inclusions observed by electron microscopy late in influenza virus infection of chicken embryo fibroblasts. *Virology*, 36: 681-83.

LANGE, CHARLES F., Assistant Professor

Articles

With Rosita Lee

Chemistry of M protein of group A streptococci. *Fed. Proc.*, 27:296.

With F. T. Rapaport, A. S. Markowitz, A. C. Soloney, A. Fukade, T. Hanaoka

Induction of skin allograft rejection by anti-sera to streptococcal membranes. *Ibid.*, p. 1630.

MARKOWITZ, ABRAHAM S., Associate Professor

Articles

With H. Battifora, F. Schwartz, C. Aseron

Immunological aspects of Goodpasture's Syndrome. *Clin. and Exp. Immunol.*, 3:585-92.

NISONOFF, ALFRED, Professor

Articles

With S. Zappacosta, W. J. Mandy

Mechanism of cleavage of rabbit IgG in two stages by soluble papain and reducing agent. *J. Immunol.*, 100:1268-76.

With G. Rossi

Crystallization of fragment Fab of human IgG myeloma proteins. *Biochem. Biophys. Res. Commun.*, 31:914-18.

With S. Zappacosta

Complementarity of heavy and light chains from antibodies of the same specificity derived from different rabbits. *J. Immunol.*, 100:781-87.

With C. Souleil

Measurement of an antigen-antibody reaction by a static method utilizing a porous gel. *Nature*, 217:144-46.

With H. P. Avey, R. J. Poljak, G. Rossi

Crystallographic data for the Fab fragment of human myeloma immunoglobulin (IgG). *Ibid.*, 220:1248-50.

PUMPER, ROBERT W., Associate Professor

Articles

With W. E. Walker

Lysosome response of virus infected serum and serum-free mammalian cells cultured *in vitro*. *Exp. Cell Research*, 49:441-47.

With M. B. Engel, N. R. Joseph

Electrometric determination of surface charge of cultured mammalian cells. *Proc. Soc. Exp. Biol. and Med.*, 128:990-96.

TAYLOR, WELTON I., Assistant Professor

Articles

With Dorothy Schelhart

Isolation of Shigellae V. Comparison of en-

richment broths with stools. *Appl. Microbiol.*, 16:1383-86.

Isolation of Shigellae VI. Performance of media with stool specimens. *Ibid.*, pp. 1387-93.

THOR, DANIEL E., Assistant Professor

Articles

Human delayed hypersensitivity: an *in vitro* correlate and transfer by an RNA extract. *Fed. Proc.*, 27:16-20.

With S. Dray

A correlate of human delayed hypersensitivity: Specific inhibition of capillary tube migration of sensitized human lymph node cells by tuberculin and histoplasmin. *J. Immunol.*, 101:51-61.

The cell-migration-inhibition correlate of delayed hypersensitivity: Conversion of human nonsensitive lymph node cells to sensitive cells with an RNA extract. *Ibid.*, pp. 469-80.

With R. E. Jurezic, S. R. Veach, Ellen Miller, S. Dray

Cell-migration-inhibition factor released by antigen from human peripheral lymphocytes. *Nature*, 219:755-57.

With R. E. Jurezic, S. Dray

Transfer with RNA extracts of the cell-migration-inhibition correlate of delayed hypersensitivity in the guinea pig. *J. Immunol.*, 101:823-29.

VICHER, EDWARD E., Associate Professor

Articles

With L. L. Kostiw, I. Lyon, B. M. Bolewicz

The effect of sodium propionate and sodium caprylate on the fatty acid content of *Trichophyton rubrum*. *Mycopath. et Mycol. Appl.*, 35:208-15.

WIDRA, ABE, Associate Professor

Articles

With S. McMillen, H. J. Rhodes

Problems in serodiagnosis of cryptococcosis. *Mycopath. et Mycol. Appl.*, 36:353-56.

DOCTORAL DISSERTATIONS

Ben-Porath, Edna (R. L. Northrop, Adviser), Biochemical analysis of a cell line persistently infected with mumps virus.

Thor, Daniel E. (S. Dray, Adviser), Delayed hypersensitivity in man: A correlate *in vitro* and transfer by an RNA extract.

Winters, Wendell D. (N. Khoobyarian, Adviser), Fate of adenovirus types in serially passaged infected cells of non-primate origin.

NEUROLOGY AND NEUROLOGICAL SURGERY

AMADOR, LUIS V., Associate Professor, Clinical

Articles

With C. Luis-Porras

Medical progress in the care of subdural hematomas in infants and children. *Ill. Med. J.*, 134, August, pp. 165-170; 204.

BAILEY, ORVILLE T., Professor of Neurology

Books

With J. Minkler, I. Feigin, G. Jervis, R. Lindenbcrg, K. Neubuerger

Pathology of the nervous system (Vol. I). McGraw-Hill Book Co., N.Y., 1256 pp.

With D. E. Smith

Some experimental models of neurological

disease. Williams and Wilkins Co., Baltimore, 364 pp.

Articles

With A. Wolf, S. A. Schneck, L. B. Rorke
Iatrogenic modification of tissue responses to infectious agents in the central nervous system. *Res. Pub. Assn. Nerv. Ment. Dis.*, 44:445-62.

Reviews

Jakob-Creutzfeldt disease, by Walter R. Kirschbaum. *J.A.M.A.*, 206:2746.

BEATTY, ROBERT A., Instructor

Articles

With A. E. Richardson
Predicting intolerance to common carotid artery ligation by carotid angiography. *J. Neurosurg.*, 28:9-13.

With O. Sugar, T. A. Fox

Protrusion of the posterior longitudinal ligament simulating herniated lumbar intervertebral disc. *J. Neuro., Neurosurg., Psychiat.*, 31:61-66.

BOSHES, LOUIS D., Clinical Associate
Professor of Neurology

Articles

With H. W. Kienast
Clinical trials of Carbamazepine in suppressing pain. *Headache*, 8, 1:1-5.

Contributions in "psychiatry" and "neurology" sections. *World Book Encyc.* 1967.

Clinical trials of Carbamazepine in suppressing pain. *Inst. Med. Chicago*, 27, 3:50.

With J. M. Levin

Auto-immunity and the central nervous system. *Ibid.*

Contributions in "psychiatry" and "neurology" sections. *World Book Encyc.*

Book Reviews

The neurologic examination, by Russell N. DeJong, M.D. *Dis. Nerv. Syst.*, 29, 4:281.

Drug therapy for epilepsy, by Samuel Livingston, M.D. *Ibid.*, 29, 5:345.

Disease of the nervous system in infancy, childhood and adolescence, by Frank R. Ford. *Ibid.*, 29, 6:421.

A textbook of neurology, by H. Houston Merritt, M.D. *Ibid.*, 29, 8:563-65.

Exercises in neurological diagnosis, by John H. Tyrer, M.D., and John M. Sutherland, M.D. *Cur. Med. Dig.*, 25, 10:1007.

A textbook of physiological psychology by Segastian P. Grossman, M.D. *Dis. Nerv. Syst.*, 29, 10:711.

Treatment of Parkinson's disease and allied disorders, by Warren V. Huber, M.D.; Treatment of acquired hemorrhagic disorders, by Oscar D. Ratnoff, M.D. *Cur. Med. Dig.*, 25, 12:1183.

A guide to psychotherapy, by Saul I. Harrison, M.D., and Donald M. Carek, M.D. *Med. World News*, No. 9, December, pp. 74-75.

GARVIN, JOHN S., Clinical Professor
of Neurology

Articles

Psychomotor variant pattern. *Dis. Nerv. Syst.*, 29, May, pp. 307-9.

GIBBS, FREDERIC A., Professor of
Neurology

Articles

With Edna Gibbs, E. L. Gibbs, T. J. Gibbs
Relation between specific types of occipital

dysrhythmia and visual defects. *Johns Hopkins Med. J.*, 122:343-49.

With D. Becka

Reappraisal of the electroencephalogram in multiple sclerosis. *Dis. Nerv. Syst.*, 29: 589-92.

RAIMONDI, ANTHONY J., Associate
Professor

Articles

With D. Yashon, C. Reyes, L. Yarzagaray
Intracranial false aneurysms. *Neurochirurgia*, 11:219-33.

With H. Torres

Head injuries in adults. In *Current Therapy*, W. B. Saunders Co., Philadelphia, pp. 702-6.

With T. Norton

Neurosurgery. In *Ped. Surg. Nurses*, R. B. Little, Brown and Company, Boston, pp. 187-223.

SUGAR, OSCAR, Professor, Neurological
Surgery

Articles

With D. Yashon, J. A. Jane, J. R. White
Protrusion of the posterior longitudinal ligament simulating herniated lumbar intervertebral disc. *J. Neuro., Neurosurg., Psychiat.*, 31:61-66.

The non-surgical care of the head-injured patient. *J. Okla. Med. Assn.*, July, pp. 364-67.

The diagnosis of cerebrovascular disease. *J. Okla. Med. Assn.*, 61, August, pp. 419-21.

NURSING

BLISS, RACHEL, Associate Professor

Articles

Covert behavior: recognition and intervention. In *ANA clinical sessions*, Appleton-Century-Crofts, N. Y., pp. 309-14.

KING, JOAN M., Associate Professor

Articles

The initial interview: assessment of the patient and his difficulties. *Perspect. in Psychiat. Care*, 5, 6:256-61.

MULLANE, MARY K., Professor and Dean

Articles

Unmet needs in nursing in local health departments and the cost to meet them. *Chart*, 65, 10:316-20.

SMYTH, SISTER MARY P., Assistant
Professor

Articles

Nursing education curriculums 1968: direction or drift? *NO*, 16, 12:41-43.

OBSTETRICS AND GYNECOLOGY

BURCHELL, R. CLAY, Associate Professor

Articles

Physiology of internal iliac artery ligation. *J. Obstet. and Gynaecol. Brit. Cwllth.*, 75: 642-51.

DASKAL, JAY L., Instructor

Articles

With R. M. Pitkin

Cone biopsy of the cervix during pregnancy. *Obstet. and Gynecol.*, 32:1-5.

KAMINETZKY, HAROLD A., Professor

Articles

With M. Swerdlow

Experimental cervical dysplasia in the rhesus monkey. *Amer. J. Obstet. and Gynecol.*, 102:404-14.

KELLER, JOHN M., Associate Professor

Articles

With J. S. Krohmer

Insulin transfer in the isolated human placenta. *Obstet. and Gynecol.*, 32, 1:77-80.

MENGERT, WILLIAM F., Professor

Articles

Lifetime observations on the etiology of eclampsia. *South. M. J.*, 61:459-64.

PITKIN, ROY M., Assistant Professor

Articles

Amniocentesis and amniotic fluid analysis in clinical obstetrics. *Ill. Med. J.*, 133:170-72.
Medical progress in the use of drugs in pregnancy. *Ibid.*, 134:265-68.

With W. A. Reynolds, R. C. Burchell

Fetal contribution to amniotic fluid. *Amer. J. Obstet. and Gynecol.*, 100:834-38.

RICKS, PHILANDER, JR., Clinical

Assistant Professor

Articles

Further experience with exchange transfusion in sickle cell anemia and pregnancy. *Amer. J. Obstet. and Gynecol.*, 100:1087-91.

STEPTO, ROBERT C., Clinical Associate

Professor

Articles

Clinical use of wine. *The New Physician*, 17:23-25.

ZWIREF, STEPHEN J., Instructor

Articles

With R. M. Pitkin

Direct spectrophotometric estimation of amniotic fluid volume. *Amer. J. Obstet. and Gynecol.*, 101:934-37.

WYNN, RALPH M., Professor and Head

Books

Third conference on fetal homeostasis, Appleton-Century-Crofts, N.Y. 298 pp.

Carcinoma *in situ*. (Translation of the German text of Gunther Kern.) Springer-Verlag, 212 pp.

Articles

Morphology of the placenta. In *Biology of gestation* (Vol. I), ed. by N. S. Assali, Academic Press, N.Y., pp. 93-184.

Fine structural effects of intrauterine contraceptives on the human endometrium. *Fertil. and Steril.*, 19:867-82.

With G. L. French

Comparative ultrastructure of the mammalian amnion. *Obstet. and Gynecol.*, 31:759-44.

With N. Bjorkman

Ultrastructure of the feline placental membrane. *Amer. J. Obstet. and Gynecol.*, 102:34-43.

Bulletins and Technical Reports

Intrauterine contraceptives: action and acceptability. International Planned Parenthood Federation Medical Bulletin. Vol. 2, No. 1.

Comparative ultrastructural studies of normal and neoplastic trophoblastic invasion. Pro-

ceedings Fourth Rochester Trophoblast Conference, 19 pp.

Report on intrauterine contraceptive devices. Advisory Committee in Obstetrics and Gynecology of the Food and Drug Administration.

Book Reviews

Contributions to embryology. Carnegie Institution of Washington. *Amer. J. Obstet. and Gynecol.*, 100:308-10.

The pathology of the human placenta, by K. Benirschke, S. G. Driscoll. *Ibid.*, 101:863-65.

OPERATIVE DENTISTRY

BALATY, JERRY, Associate Professor

Articles

With W. F. Malone

The rubber dam dilemma. *Ill. State Dental J.*, 37, 3:138-43.

MALONE, WILLIAM F., Professor

Articles

With J. Balaty

The rubber dam dilemma. *Ill. State Dental J.*, 37, 3:138-43.

With J. L. Manning

Caries control. *Dental World*, 23, 1, First Quarter, p. 8.

With J. W. Paul

Completed amalgam restorations. *Ill. State Dental J.*, 37, 5:296-300.

MANNING, JOHN L., Associate Professor

Articles

With W. F. Malone

Caries control. *Dental World*, 23, 1, First Quarter, p. 8.

PAUL, JAMES W., Assistant Professor

Articles

With W. F. Malone

Completed amalgam restorations. *Ill. State Dental J.*, 37, 5:296-300.

OPHTHALMOLOGY

FELDMAN, VICTOR F., Clinical Instructor

Articles

With H. M. Burian

The effect of glare in the electroretinogram of normal human observers. *Amer. J. Ophth.*, 65:91-97.

FRENKEL, MARCEL, Assistant Professor

Articles

Laminography in management of mucoceles. *Amer. J. Ophth.*, 65:522-26.

Serodiagnosis of syphilis—editorial. *Ibid.*, 66:972.

Reviews

Les mouvements conjugués oculaires et leurs diverses modalités d'atteinte, by Jean de Recondo. *Ibid.*, 65:124.

Comptes rendus due ler congrès international de neurogèndue et neuro-ophtalmologie, ed. by D. Klein, P. Amalric, B. Karger. *Ibid.*, 66:759.

HUGHES, WILLIAM F., Clinical Professor

Articles

With R. C. Ey, M. A. Bloome, C. B. Tallman

Prevention of corneal vascularization. *Amer. J. Ophth.*, 66:1118-31.

KAPLAN, JOEL A., Clinical Instructor

Articles

With D. B. Freilich

Effect of cryosurgery on vitreous hemorrhage. *Intr. Surg.*, 50:1.

KRONFELD, PETER C., Professor Emeritus

Articles

Some basic statistics of clinical tonography. *Invest. Ophthalm.*, 7:319-29.

URIST, MARTIN J., Associate Professor

Articles

Recession and upward displacement of the medial rectus muscles in A-pattern esotropia. *Amer. J. Ophthalm.*, 65:769-73.

ORAL ANATOMY

Du BRUL, E. LLOYD, Professor

Articles

Biology of artistic behavior. *Persp. in Biol. and Med.*, 2, 4:631-48.

DOCTORAL DISSERTATIONS

Scapino, Robert P. (E. L. Du Brul, Adviser), Biomechanics of feeding in Carnivora.

ORAL AND MAXILLOFACIAL SURGERY

ATTERBURY, ROBERT A., Associate Professor

Articles

Suture materials — an important accessory in the art of oral surgery. *Dent. Digest*, 74, 6:258-61.

Suture removal — an important accessory in the art of oral surgery. *Ibid.*, 74, 7:298-300.

With S. J. Vacirani

Maxillary sinus perforations and closures. *Oral Surg., Oral Med. and Oral Path.*, 25, 4:534-39.

Pain — recognition and understanding. *J. Indian Dent. Assn.*, pp. 179-84.

Adequate oral examination — a prerequisite for early detection of oral cancer. *J. Amer. Dent. Assistants*, 37, 4:10-13. Part I.

Oral manifestations of diabetes mellitus. *J. Amer. Soc. Geriatric Dentistry*, 3:3.

The general practitioner and facio-dental emergencies. *Dent. Digest*, 74, 12:502-5.

GREENE, CHARLES S., Instructor

Articles

Dental care program in action for children — Part I. *Dental Econ./Oral Hygiene*, 58:54.

Dental care program in action for children — Part II. *Ibid.*, p. 52.

LASKIN, DANIEL M., Professor and Associate Head

Articles

A new look at an old problem. *J. Oral Surg.*, 26:773.

Management of odontogenic infections of the head and neck. In *Current therapy in dentistry*, ed. by Byrd, C. V. Mosby Co., St. Louis, Mo., pp. 528-40.

With S. Peskin

Surgical aids in orthodontics. *Dent. Clin. N. Amer.*, pp. 509-24.

PESKIN, SIDNEY, Assistant Professor

Articles

With D. M. Laskin

Surgical aids in orthodontics. *Dent. Clin. N. Amer.*, pp. 509-24.

ORAL DIAGNOSIS

COHEN, LAWRENCE, Professor and Head of Department

Articles

The intercellular cement substance of oral epithelium in man and *Macaca irus*. *Archs. oral Biol.*, 13:163-69.

Isolated trigeminal neuropathy. *J. Oral Medicine*, 23, 3:107-10.

With A. H. Young

The white sponge naevus. *Brit. J. Oral Surg.*, 5, 3:206-10.

DOUGLAS, BRUCE L., Professor

Articles

With J. C. Gleeson

The role of the dental school in the development of community dental programs. *Qt. Natl. Dental Assn., Inc.*, 26, 3:65-67.

MEDAK, HERMAN, Professor

Articles

With S. Nawakovsky, E. A. McGrew, P. Burlakow, S. Nanos

Manifestations of viral infections in exfoliated cells. *ACTA Cytologica*, 12, 3:227-36.

TIECKE, RICHARD S., Professor and Visiting Lecturer

Articles

Early diagnosis of oral cancer. *Geriatrics*, 23:114-17.

ORAL PATHOLOGY

ALVARES, OLAV F. Instructor

Articles

With Julia Meyer

Regional differences in parakeratotic response to mild zinc deficiency. *Arch. Derm.*, 98: 191-201.

With L. B. Silverglade, E. Olech

Central mucoepidermoid tumors of the jaws. Review of the literature and case report. *Cancer*, 22, 3:650-53.

GERSON, STANLEY J., Associate Professor

Articles

With L. Quackenbush

Quantitative histochemistry of rat oral mucosa: acid phosphatase. *Enzym. biol. clin.*, 9:74-78.

GRAND, NICHOLAS G., Professor

Articles

With P. P. Goland

Chloro-s-triazines as markers and fixatives for study of growth in teeth and bones. *Amer. J. Phys. Anthropol.*, 29, 2:201-18.

MEYER, JULIA, Professor

Articles

With D. K. Daftary, J. J. Pindborg

Studies in oral leukoplakias. XI. Histopathology of leukoplakias in Indians chewing "pan" with tobacco. *Acta Odont. Scand.*, 25, 4:397-435.

With O. F. Alvares

Regional differences in parakeratotic response to mild zinc deficiency. *Arch. Derm.*, 98: 191-201.

SILVERGLADE, LEE B., Assistant Professor
Articles

With O. F. Alvares, E. Olech

Central mucoepidermoid tumors of the jaws. Review of the literature and case report. *Cancer*, 22, 3:650-53.

WATERHOUSE, JOHN P., Professor and Head, Oral Pathology; Acting Head, Histology

Articles

With G. T. Hankey

A calcifying chondroma in the cheek. *Brit. J. oral Surg.*, 5:239-44.

With C. A. Squier

The ultrastructural localisation of non-specific esterase in dendritic cells of human and rat oral epithelium. *Archs. oral Biol.*, 13:1157-58.

Quantitative comparison of acid phosphatase in oral epithelium at light and electron microscope levels. *J. R. microsc. Soc.*, 88: 557-70.

ORTHODONTICS

ENGEL, MILTON B., Professor

Articles

With R. W. Pumper, N. R. Joseph

Electrometric determination of surface change of cultured mammalian cells. *Proc. Soc. Exp. Biol. and Med.*, 128:990-96.

SCHNEIDER, BERNARD J., Assistant Professor

Articles

Lead acetate as a vital marker for the analysis of bone growth. *Amer. J. Phys. Anthropol.*, 29:197-200.

ORTHOPAEDIC SURGERY

DEWALD, RONALD L., Clinical Assistant Professor

Articles

With L. M. Solomon, D. Fritzin

The epidermal nevus syndrome. *Arch. Derm.*, 97:273-85.

GALANTE, JORGE O., Assistant Professor

Reviews

Fatigue fractures. A clinical study, by J. M. Morris, L. D. Blickenstaff. *Rev. Surg.*, 25, 5:313.

HOWARD, FRANCIS M., Clinical Associate Professor

Articles

With T. W. McNeill

Ski injuries. *Pres.-St. Luke's Hosp. Med. Bull.*, 7, 1:2-8.

JACOBS, RICHARD L., Assistant Professor

Articles

Complications of supracondylar fractures of the humerus. *Pres.-St. Luke's Hosp. Med. Bull.*, 7, 1:40-47.

Bone and joint trauma. In *Medical and surgical emergencies* (2nd ed.), ed. by J.

Schneewind, Year Book, Chicago, pp. 140-55.

With R. D. Ray

Studies of Vitamin D binding in normal and rachitic serum. *Clin. Ortho. and Rel. Res.*, 56:275-81.

In vitro binding of histologic stains by collagen. *Ibid.*, 60:256-60.

LAMBERT, CLAUDE N., Clinical Professor
Articles

Early evaluation and prosthetic fitting of juvenile amputees. *Proc. Inst. Med.*, 27, 3:54.

With R. J. Pellicore, L. V. Amador, W. R. Peterson

Fractures of the neck and back. *Indus. Med. and Surg.*, 37, 4:263-74.

PELLICORE, RAYMOND J., Clinical Assistant Professor

Articles

With C. N. Lambert, L. V. Amador, W. R. Peterson

Fractures of the neck and back. *Indus. Med. and Surg.*, 37, 4:263-74.

RAY, ROBERT D., Professor

Articles

Circulation and the skeletal system. *J. Bone and Joint Surg.*, 50-A:764-65.

With R. L. Jacobs

Studies of Vitamin D binding in normal and rachitic serum. *Clin. Ortho. and Rel. Res.*, 56:275-81.

In vitro binding of histologic stains by collagen. *Ibid.*, 60:256-60.

With K. E. Kuettner, H. L. Guenther, G. F. B. Schumacher

Lysozyme in preosseous cartilage. *Calc. Tiss. Res.*, 1:298-305.

With M. J. Schrodt, R. Eisenstein, K. E. Kuettner

Ontogenic studies of lysozyme in embryonic cartilage. *Surg. Forum*, 19:461-62.

With T. Y. Sabet

Failure of ribonuclease to inhibit the transfer of homograft sensitivity. *Clin. Ortho. and Rel. Res.*, 61:92-102.

With I. M. Siegel, J. E. Miller

Subcutaneous lower limb tenotomy in the treatment of pseudo-hypertrophic muscular dystrophy: description of technique and presentation of twenty-one cases. *J. Bone and Joint Surg.*, 50-A, 7:1437-43.

SCHRODT, MERLE J., Instructor and Resident

Articles

With R. D. Ray

Ontogenic studies of lysozyme in embryonic cartilage. *Surg. Forum*, 19:461-62.

SHAPIRO, JULES S., Clinical Associate

Articles

The wrist in relation to ulnar drift of the fingers in rheumatoid arthritis. *Pres.-St. Luke's Hosp. Med. Bull.*, 7:69-74.

The etiology of ulnar drift: report of a related finding. *Acta Ortho. Scand.*, 39, 3: 346-53.

The wrist in relation to ulnar drift of the fingers. *Bull. Louis A. Weiss Mem. Hosp.*, 9:49-60.

SIEGEL, IRWIN M.

Articles

Subcutaneous lower limb tenotomy in the treatment of pseudo-hypertrophic muscular dystrophy: description of technique and presentation of twenty-one cases. *J. Bone and Joint Surg.*, 50-A, 7:1437-43.

Jogger's heel. *J. Amer. Med. Assn.*, 206, 13: 289.

The osteochondroses, Part I. *Amer. J. Ortho. Surg.*, 10, 10:246-49.

The osteochondroses, conclusion. *Ibid.*, 10, 11:266-78.

Lead poisoning in uptown: a medical social problem. *Bull. Louis A. Weiss Mem. Hosp.*, 9:42-46.

OTOLARYNGOLOGY

DERBYSHIRE, ARTHUR J., Research Professor

Articles

The philosophy behind audiometry in infants. *E.E.N.T. Monthly*, 47:405-7.

With N. Torok

Computation of the nystagmogram. *Acta Oto-Laryngologica*, 65:70-78.

HAMILTON, LEE R., Research Assistant

Articles

With K. H. Siedentop, M. E. Tardy

Eustachian tube function. *AMA Arch. Otolaryng.*, 88, 4:386-95.

HOLINGER, PAUL H., Professor

Articles

Axioms on hoarseness. *Hosp. Med.*, 4, 2: 4-12.

Cancer of the larynx. In *Cancer management*, a special graduate course on cancer sponsored by American Cancer Society, Inc., J. B. Lippincott Co., pp. 319-22.

Benign tumors of the trachea and bronchi. *Otol. Clinics N. Amer.*, June, pp. 219-38.

Management of esophageal lesions caused by chemical burns. *Ann. Otol., Rhin., and Laryng.*, 77, 5:819-29.

With N. L. Shipkowitz, J. C. Holper, M. C. Worland

Studies of etiology of laryngeal papilloma and an autogenous laryngeal papilloma vaccine. *Acta Oto-Laryngologica*, 65:63-69.

With Joyce A. Schild, D. G. Maurizi

Internal and external trauma to the larynx. *Laryngoscope*, 78, 6:944-54.

Laryngeal papilloma; review of etiology and therapy. *Ibid.*, 78, 9:1462-74.

LAKER, HAROLD I., Clinical Instructor

Articles

With A. Loewy

Tracheal stoma problems. *AMA Arch. Otolaryng.*, 87, 5:477-84.

LEDERER, FRANCIS L., Professor Emeritus

Articles

With B. J. Soboroff

The lanthanic neck mass. *Trans. Amer. Laryngol. Assn.* (89th vol.), pp. 96-106.

The lanthanic neck mass. *Ann. Otol., Rhin., and Laryng.*, 77:547-57.

With L. T. Tenta

Emergencies in otolaryngology. In *Medical and surgical emergencies*, ed. by J. H.

Schneewind. Yearbook Medical Publishers, Chicago, pp. 225-39.

LOEWY, ARTHUR, Professor

Articles

With H. I. Laker

Tracheal stoma problems. *AMA Arch. Otolaryng.*, 87, 5:477-84.

MARCUS, RICHARD E., Associate Professor

Articles

Vestibular function and additional findings in Waardenburg's syndrome. *Acta Oto-Laryngologica*, Supplementum 229, p. 30.

With H. Field, P. Copack, A. J. Derbyshire, G. J. Driessen

Responses of newborns to auditory stimulation. *J. Auditory Research*, 7:271-85.

Hearing loss in infants: restatement and summary of the forum. *E.E.N.T. Monthly*, 47, 9:420-21.

SABERMAN, MARK N., Clinical Instructor

Articles

With E. M. Skolnik, B. J. Soboroff,

L. T. Tenta, H. C. Jones

Preoperative radiation in head and neck cancer. *Trans. Amer. Acad. Ophthal. and Otol.*, 72, 6:937-42.

SCHILD, JOYCE A., Clinical Assistant Professor

Articles

With P. H. Holinger, D. G. Maurizi

Internal and external trauma to the larynx. *Laryngoscope*, 78, 6:944-54.

Laryngeal papilloma: review of etiology and therapy. *Ibid.*, 78, 9:1462-74.

SIEDENTOP, KARL H., Clinical Assistant Professor

Articles

With M. E. Tardy, L. R. Hamilton

Eustachian tube function. *AMA Arch. Otolaryng.*, 88, 4:386-95.

SKOLNIK, EMANUEL M., Professor

Articles

With M. E. Tardy, L. T. Tenta,

D. M. Wineinger

Elective neck dissection in head and neck carcinoma. *AMA Arch. Otolaryng.*, 87: 471-76.

With H. C. Jones, M. N. Saberman,

B. J. Soboroff, L. T. Tenta

Preoperative radiation in head and neck cancer. *Trans. Amer. Acad. Ophthal. and Otol.*, 72:937-42.

SOBOROFF, BURTON J., Professor

Articles

With F. L. Lederer

The lanthanic neck mass. *Ann. Otol., Rhin., and Laryng.*, 77:547-57.

The lanthanic neck mass. *Trans. Amer. Laryngol. Assn.* (89th vol.), pp. 96-106.

With H. C. Jones, E. M. Skolnik,

M. N. Saberman, L. T. Tenta

Preoperative radiation in head and neck cancer. *Trans. Amer. Acad. Ophthal. and Otol.*, 72:937-42.

TARDY, M. EUGENE, JR., Assistant Professor

Articles

With E. M. Skolnik, L. T. Tenta,

D. M. Wineinger

Elective neck dissection in head and neck

- carcinoma. *AMA Arch. Otolaryng.*, 87: 471-76.
- With K. H. Siedentop, L. R. Hamilton
Eustachian tube function. *Ibid.*, 88:386-95.
- With M. Samter, N. Costea, M. Shulman
Answers to questions on allergic emergencies.
Hosp. Med., 4, 11:61-74.
- TENTA, LOUIS T.**, Assistant Professor
- Articles**
With F. L. Lederer
Emergencies in otolaryngology. In *Medical and surgical emergencies*, ed. by John H. Schneewind. Yearbook Medical Publishers, Chicago, pp. 225-39.
- With E. M. Skolnik, M. E. Tardy,
D. M. Wincinger
Elective neck dissection in head and neck carcinoma. *AMA Arch. Otolaryng.*, 87: 471-76.
- With E. M. Skolnik, B. J. Soboroff,
M. N. Saberman, H. C. Jones
Preoperative radiation in head and neck cancer. *Trans. Amer. Acad. Ophthal. and Otol.*, 72:937-42.
- TOROK, NICHOLAS**, Professor
- Articles**
With A. J. Derbyshire
Computation of the nystagmogram. *Acta Otolaryngologica*, 65:70-78.
- WALLNER, LINDEN J.**, Clinical Associate Professor
- Articles**
With B. J. Hill, W. Waldrof, C. Monroe
Voice changes following adenotonsillectomy; a study of velar function by cineflorography and video tape. *Laryngoscope*, 78, 8: 1410-18.
- PATHOLOGY**
- BATTIFORA, HECTOR A.**, Clinical Assistant Professor
- Articles**
With P. A. McCreary, B. M. Hahneman,
G. H. Laing, G. M. Hass
Chronic magnesium deficiency in the rat. Studies of chronic myelogenous leukemia. *Arch. Path.*, 86:610-20.
- With A. M. Markowitz, F. Schwartz, C. Asaron
Immunological aspects of Goodpasture's syndrome. *Clin. Exp. Immunol.*, 3:585-91.
- CHOMET, BERNHARD**, Professor of Pathology
- Articles**
Oral carcinoma and multiplicity of carcinomas. *Oral Surg., Oral Med., and Oral Path.*, 26, 1:87-91.
- CHRIST, MIRIAM**, Clinical Instructor
- Articles**
Polycystic nephroblastoma. *J. Urol.*, 98: 570-75.
- ECKNER, FRIEDRICH A. O.**, Lecturer
- Articles**
With M. Lev, R. R. Liberthson, R. A. Arcilla
The pathologic anatomy of dextrocardia and its clinical implications. *Circulation*, 37: 979-99.
- With P. V. Moulder, E. H. Blackstone, M. Lev
Pressure-derivative loop for left ventricular resuscitation. *Arch. Surg.*, 96:323-27.
- With B. H. Riebe, P. V. Moulder,
E. H. Blackstone
Histochemical study of enzyme systems in frozen dried tissue. *Histochemie*, 13:283-88.
- With E. H. Blackstone, R. H., Evans,
A. Drake, P. V. Moulder
Perfusion-induced myocardial injury. *J. Thorac. Cardiovas. Surg.*, 56:689-98.
- EISENSTEIN, REUBEN**, Associate Professor
- Articles**
With K. E. Kuettner, L. W. Soble,
J. A. Yaeger
The influence of lysozyme on the appearance of epiphyseal cartilage in organ culture. *Calc. Tiss. Res.*, 2:93.
- With L. W. Soble, K. Kuettner
Lysozyme in skeletal tissues. *Amer. J. Path.*, 52:29a.
- Giant cell tumor of tendon sheath: Its histogenesis as studied in the electron microscope. *J. Bone and Joint Surg.*, 50:476.
- With M. J. Schrodt, R. D. Ray,
K. E. Kuettner
Lysozyme in embryonic cartilage: Ontogenic studies. *Surg. Forum*, 19:461-62.
- FRIEDERICI, H. H. R.**, Associate Professor
- Articles**
With R. J. DeCloux
The early response of immature rat myometrium to estrogen stimulation. *J. Ultrastruct. Res.*, 22:402-12.
- The tri-dimensional ultrastructure of fenestrated capillaries. *Ibid.*, 23:444-56.
- Freeze-etch observations on interstitial connective tissue. *Ibid.*, 24:269-85.
- HASS, GEORGE M.**, Professor
- Articles**
With R. Oyasu, H. Battifora, R. Eisenstein,
J. H. McDonald
Enhancement of tumorigenesis in the urinary bladder of rats by neonatal administration of 2-AAF. *J. Natl. Cancer Inst.*, 40:377-88.
- With H. A. Battifora, P. A. McCreary,
B. M. Hahneman, G. H. Laing
Chronic magnesium deficiency in the rat. Studies of chronic myelogenous leukemia. *Arch. Path.*, 86:610-20.
- With P. Coogan, J. Friese, H. Maganini
Inhibition of growth of fibroblasts *in vitro* by ultrafiltrate of chick embryo extract. *Lab. Invest.*, 18:139-42.
- With C. B. Taylor, K. J. Ho
Le role de la paroi arterielle dans l'atherogenese. Colloques Internationaux du Centre National de la Recherche Scientifique, No. 169, Paris, Editions du Centre National de la Recherche Scientifique.
- JABLOKOW, VICTOR R.**, Clinical Associate Professor
- Articles**
With A. B. Rubenstein, F. A. Lloyd
Differentiation of a bifid ureter from ureteral diverticula. *Ill. Med. J.*, 134:33-35.
- KING, LESTER S.**, Lecturer
- Articles**
Scientific writing. American Medical Association, Chicago, 132 pp.

- Changing concepts of "scientific" medicine. *Harvard Med. Alum. Bull.*, 42:8-11.
- Reconstructing the past. *J.A.M.A.*, 204, 1: 47-50.
- Signs and symptoms. *J.A.M.A.*, 206, 5: 1063-65.
- KRAKOWER, CECIL A.**, Professor
- Articles**
 With R. Gunnar
 Clinical pathologic conference. *Amer. Heart J.*, 76, 6:820-28.
- LEV, MAURICE**, Lecturer
- Articles**
 The conduction system. In *Pathology of the heart*, ed. by Gould (3rd ed.), Charles C. Thomas, Springfield, Ill., pp. 180-220.
- The conduction system in congenital heart disease. *Amer. J. Cardiol.*, 21:619-27.
- With R. Okada, S. Glagov
 Different effects of increased volume and increased pressure on endocardial structure in hearts with atrial septal defect. *Amer. Heart J.*, 75:474-86.
- With P. V. Moulder, E. H. Blackstone, F. A. O. Eckner
 Pressure-derivative loop for left ventricular resuscitation. *Arch. Surg.*, 96:323-27.
- With P. N. Unger, M. Greenblatt
 The anatomic basis of the electrocardiographic abnormality in incomplete left bundle branch block. *Amer. Heart J.*, 76:486-97.
- With R. Okada, D. Johnson
 Extracardiac malformations associated with congenital heart disease. *Arch. Path.*, 85: 649-57.
- With R. R. Liberthson, F. A. O. Eckner, R. A. Arcilla
 The pathologic anatomy of dextrocardia and its clinical implications. *Circulation*, 37: 979-99.
- McGREW, ELIZABETH A.**, Professor
- Articles**
 With Sophie Nowakovsky, H. Medak, P. Burlakow, Stella Nanos
 Manifestations of viral infections in exfoliated cells. *Acta Cytologica*, 12, 3:227-36.
- MILLES, GEORGE**, Professor
- Articles**
 With R. W. Roesel, E. Strelka
 Uncontrolled hemorrhage in drug-induced hypotension. *Surgery*, 64:801-4.
- PIETRA, GIUSEPPE G.**, Clinical Assistant Professor
- Articles**
 With E. Silber, B. Levin, A. Pick
 Mesothelioma of the pericardium. *C.P.C. Amer. Heart J.*, 75:545.
- With M. D. D'Amodio, M. M. Leventhal, W. Oh, J. L. Braudo
 Electron microscopy of cutaneous capillaries of newborn infants: 1. Effects of placental transfusion. *Pediatrics*, 42:678.
- PIRANI, CONRAD L.**, Clinical Professor
- Articles**
 With L. Salinas-Madrigal
 Evaluation of percutaneous renal biopsy. In *Pathology annual*, Appleton-Century-Crofts, N.Y., pp. 249-96.
- With E. Rosenmann, V. E. Pollak
 Renal vein thrombosis in the adult: a clinical and pathologic study based on renal biopsies. *Medicine*, 47:269-335.
- With R. A. Bacani, F. Velasquez, A. Kanter, V. E. Pollak
 Rapidly progressive (nonstreptococcal) glomerulonephritis. *Ann. Int. Med.*, 37: 462-85.
- With V. E. Pollak, S. Rosen, R. C. Muehrcke, R. M. Kark
 The natural history of lipid nephrosis and of membranous glomerulonephritis. *Ibid.*, 69: 1171-96.
- With D. Gonzalez-Cueto, J. M. Levitsky, M. Perou
 Amyloidosis in adult mongoloids. In *Amyloidosis 1968*, ed. by E. Mandema, L. Ruinen, J. H. Scholten, A. S. Cohen, pp. 418-28.
- SMITH, ROGER D.**, Assistant Professor
- Articles**
 With F. Deinhardt
 Unique cytoplasmic membranes in rous sarcoma virus-induced tumors of a subhuman primate. *J. Cell Biol.*, 37:819-33.
- STERN, KURT**, Professor
- Articles**
 Problems of blood grouping and crossmatching. *Hosp. Med.*, 4:85-93.
- Reviews**
 Ueberempfindlichkeit und Immunität, ed. by R. Roulet. *J.A.M.A.*, 203:308.
- SWERDLOW, MARTIN A.**, Professor
- Books Edited**
Proceedings, Thirty-third Seminar of the American Society of Clinical Pathologists, Seminar on Diseases of the Liver, American Society of Clinical Pathologists, Chicago, 80 pp.
- Articles**
 With L. J. Humphrey
 Large duct epithelial hyperplasia and carcinoma of the breast. *Arch. Surg.*, 97, 10: 592-94.
- With H. Kaminetsky
 Experimental cervical dysplasia in the rhesus monkey: estrogen as a cofactor with methylcholanthrene. *Amer. J. Obstet. and Gynecol.*, 102, 3:404-14.
- VALAITIS, JONAS**, Clinical Associate Professor
- Articles**
 With J. van Elk, C. J. Staley
 Effect of hyperbaric oxygen and nitrogen mustard (NSC-762) on Ehrlich ascites tumor. *Cancer Chemo. Rpts.*, 52, 3:405-12.
- WOLFE, LAUREN G.**, Assistant Professor
- Articles**
 With R. A. Griesemer, R. L. Farrell
 Experimental aerosol transmission of Yaba virus in monkeys. *J. Natl. Cancer Inst.*, 41, 5:1175-95.
- With A. Adler, R. A. Griesemer
 Immunologic response of monkeys to aerosols of Yaba virus. *Ibid.*, pp. 1197-1203.
- PEDIATRICS**
- BEHRMAN, RICHARD E.**, Professor
- Articles**
 Emergency care of the newborn. In *Hand-*

- book of pediatric medical emergencies, ed. by Varga, C. V. Mosby Co., St. Louis, pp. 24-76.
- With J. T. Parer, C. W. de Lannoy
Uterine blood flow and oxygen consumption in Rhesus monkeys with retained placentas. *Amer. J. Obstet. and Gynecol.*, 100:806-12.
- With E. L. Makowski, F. C. Battaglia, G. Meschia, J. Schrufer, A. E. Seeds, P. D. Bruns
Effect of maternal exposure to high altitude upon fetal oxygenation. *Ibid.*, pp. 852-61.
Fetal anoxia. In *Drugs and poisons in relation to the developing nervous system. Proceedings of the Conference on Drugs and Poisons as Etiologic Agents in Mental Retardation, 1967.* Public Health Service Publication No. 1791, U.S. Department of Health, Education, and Welfare, Bethesda, Maryland, pp. 164-67.
- In vivo oxygen dissociation curves for maternal and fetal Rhesus monkeys. *J. Appl. Physiol.*, 25:224-29.
- With G. W. Kittinger
Fetal and maternal responses to angiotensin in utero. *Proc. Soc. Exp. Biol. and Med.*, 129:305-8.
- With O. W. Portman, P. Soltys
The transfer of free fatty acids across the primate placenta. *Amer. J. Physiol.*, 216:143-47.
- With O. W. Portman, P. Soltys, M. Alexander
Plasma lysolecithinase activity in pregnancy. *Biochim. Biophys. Acta*, 167:610-12.
- BUCHELERES, H. GUNTHER, Clinical Associate Professor
Articles
With M. Serratto, P. Bicoff, R. A. Miller, A. R. Hastreiter
Palliative balloon atrial septostomy for total anomalous pulmonary venous connection in infancy. *J. Pediat.*, 73:734-39.
- CARR, IAN R., Assistant Professor
Articles
With E. Aberdeen
Transposition of the great arteries. In *Modern trends in cardiac surgery* (Vol. II), ed. by Wooler and Aberdeen, Butterworth and Co., London, pp. 182-99.
- GOTOFF, SAMUEL P., Assistant Professor
Articles
Lymphocytes in agammaglobulinemia: In vitro response to a specific antigen. *Pediat. Res.*, 2:209-14.
With S. A. McCue, P. W. Wendell
Sustained-release aspirin in children. *J. Pediat.*, 73:127-31.
Lymphocytes in congenital immunological deficiency diseases. *Clin. Exp. Immunol.*, 3:843-56.
- GROSSMAN, HERBERT J., Professor
Articles
Environmental deprivation. In *Ambulatory pediatrics*, ed. by Green and Haggerty, W. B. Saunders, Philadelphia, pp. 275-80.
- HASTREITER, ALOIS R., Associate Professor
Articles
Endocardial fibro-elastosis. In *Heart disease in infants, children and adolescents*, ed. by Moss and Adams, Williams and Wilkins Co., Baltimore, pp. 760-97.
- With A. Rodriguez-Coronel, M. H. Paul
Pre-excitation syndrome associated with subvalvular aortic stenosis in children. *Pediatrics*, 41:1115-23.
- With A. Rodriguez-Coronel
Anomalous inferior vena cava with azygos continuation, high (sinus-venosus) atrial septal defect, and alterations of sino-atrial rhythm. *Amer. J. Cardiol.*, 21:575-81.
Discordant situs of thoracic and abdominal viscera. *Ibid.*, 22:111-18.
- With A. Rodriguez-Coronel, V. Sueblingwong
Clinical forms of atrial flutter in infancy. *J. Pediat.*, 73:69-76.
- With M. Serratto, H. G. Bucheleres, P. Bicoff, R. A. Miller
Palliative balloon atrial septostomy for total anomalous pulmonary venous connection in infancy. *Ibid.*, 73:734-39.
- HONIG, GEORGE R., Assistant Professor
Articles
With K. R. Unna
Vitamin B₆ group. XII, Pharmacology and toxicology. In *The vitamins—chemistry, physiology, pathology, methods* (Vol. II), ed. by Sebrell and Harris, Academic Press, N.Y. and London, pp. 104-8.
- With C. F. Abildgaard, J. V. Simone, E. N. Forman, C. A. Johnson, R. A. Seeler
Von Willebrand's disease: A comparative study of diagnostic tests. *J. Pediat.*, 73:355-63.
- HYDE, JOHN S., Clinical Associate Professor
Articles
With C. L. Swarts
Effect of an exercise program on the perennially asthmatic child. *Amer. J. Dis. Children*, 116:383-96.
- LIS, EDWARD F., Professor
Articles
The digestive system: mouth. In *Biologic basis of pediatric practice*, ed. by Cooke, McGraw-Hill Book Co., N.Y., pp. 836-39.
Management of children with cleft lip and cleft palate. In *Ambulatory pediatrics*, ed. by Green and Haggerty, W. B. Saunders, Philadelphia, pp. 581-93.
- MILLER, ROBERT A., Professor
Articles
With A. Rodriguez-Coronel
Congenital atrioventricular block. In *Heart disease in infants, children, and adolescents*, ed. by Moss and Adams, Williams and Wilkins, Baltimore, pp. 1039-71.
- With Maria Serratto
Bacterial endocarditis. In *Pediatric cardiology*, ed. by Watson, Lloyd-Luke Ltd., London, pp. 837-43.
Congestive heart failure. *Ibid.*, pp. 909-31.
Transposition of the great vessels. In *Current pediatric therapy*, ed. by Gellis and Kagan, W. B. Saunders, Philadelphia, p. 199.
- With Maria Serratto, H. G. Bucheleres, P. Bicoff, A. R. Hastreiter
Palliative balloon atrial septostomy for total anomalous pulmonary venous connection in infancy. *J. Pediat.*, 73:734-39.
- PACHMAN, DANIEL J., Clinical Professor
Articles
The fight against smoking in children: The role of the physician. *Ill. Med. J.*, 134:1-6.

PILDES, ROSITA S., Associate Professor

Articles

With G. Joassin, M. L. Parker, M. Cornblath
Juvenile diabetes mellitus, a deficiency in insulin. *Diabetes*, 17:27-32.

ROSENTHAL, IRA M., Professor

Articles

With D. Bronsky, R. T. Kiamko, R. Moncada
Intra-uterine hyperparathyroidism secondary to maternal hypoparathyroidism. *Pediatrics*, 42:606-13.

SCHULMAN, IRVING, Professor and Head of Department

Articles

With C. F. Abildgaard, J. J. Corrigan, R. A. Seeler, J. V. Simone
Meningococemia associated with intravascular coagulation. *Pediatrics*, 40:78-83.

With C. A. Johnson, C. F. Abildgaard
Coagulation studies in children with cyanotic congenital heart disease. *Lancet*, 2:660-62.

SCHULZ, JEANETTE, Associate Professor

Articles

Chromosome disorders in mental retardation. Whose chromosomes to count? *Ped. Clin. N. Amer.*, 15:871-88.

Monosomy G. mosaicism in two unrelated children. *J. Ment. Defic. Res.*, 12:255-68.

SEELER, R. A., Assistant Professor

Articles

With C. F. Abildgaard, J. J. Corrigan, J. V. Simone, I. Schulman
Meningococemia associated with intravascular coagulation. *Pediatrics*, 40:78-83.

SERRATTO, MARIA E., Assistant Professor

Articles

With R. A. Miller
Bacterial endocarditis. In *Pediatric cardiology*, ed. by Watson, Lloyd-Luke Ltd., London, pp. 837-43.

Congestive heart failure. *Ibid.*, pp. 909-31.

With H. G. Bucheleres, P. Bicoff, R. A. Miller, A. R. Hastreiter

Palliative balloon atrial septostomy for total anomalous pulmonary venous connection in infancy. *J. Pediat.*, 73:734-39.

SPAETH, RALPH, Clinical Professor

Articles

Tetanus. In *Communicable and infectious diseases*, ed. by Top, C. V. Mosby Co., St. Louis, pp. 620-23.

SWARTS, CHARLES L., Clinical Associate Professor

Articles

With J. S. Hyde
Effect of an exercise program on the perennially asthmatic child. *Amer. J. Dis. Children*, 116:383-96.

PEDODONTICS

ANDERSON, ALLEN W., Assistant Professor

Articles

With Y. Sharav, M. Massler
Periodontal reattachment after tooth replantation. *Periodontics*, 6, 4:161-67.

Reparative dentine formation and pulp morphology. *Oral Surg.*, 26, 6:837-47.

GOLAND, PHILIP P., Research Associate

Articles

With N. G. Grand
Chlo-s-triazines as markers and fixatives for the study of growth in teeth and bones. *Amer. J. Phys. Anthropol.*, 29:201-18.

MASSLER, MAURY, Professor

Articles

P-M-A index for the assessment of gingivitis. *J. Perio.*, 38:592-98.

With A. W. Anderson, Y. Sharav
Periodontal reattachment after tooth replantation. *Periodontics*, 6, 4:161-67.

Reparative dentine formation and pulp morphology. *Oral Surg.*, 26, 6:837-47.

With J. A. Evans

Non-reaction of pulp to fluoride application. *J. Dent. Childr.* 35, 2:91-98.

With S. H. Y. Wei., W. C. Forbes
X-ray diffraction analysis of carious dentine treated with stannous fluoride. *Arch. Oral Bilo.*, 13, 4:407-16.

PERIODONTICS

KLAVAN, BENNETT, Associate Professor and Head of Department

Articles

Preventive periodontics. *N.Y. State Dent. J.*, 34, 4:199.

PHARMACEUTICAL CHEMISTRY

BARNOTHY, MADELEINE F., Professor

Articles

With J. M. Barnothy
The redshift-absolute magnitude relation of quasi-stellar sources. *Soviet Astronomy-AJ*, 11:895-97.

The relationship between Seyfert galaxies, N-type galaxies and quasi-stellar objects. *Astrophysical Letters*, 2:21-26.

Galaxies as gravitational lenses. *Science*, 162:348-52.

Redshift of absorption lines in the spectra of extragalactic sources. *Astronomical J.*, 73:S 87.

Connection between Seyfert galaxies, N-type radio galaxies and quasi-stellar sources. *Ibid.*, 73:912-14.

A pulsar model. *Ibid.*, 73, December Supplement.

BAUER, LUDWIG, Professor

Articles

With T. T. Conway, A. Shoeb
Synthesis of α -mercaptoacetaminidinium chlorides via the corresponding phosphorothiolates. *J. Pharm. Sci.*, 57:455-59.

With C. S. Mahajanshetti
Thiazolo-N-hydroxyuracils. *J. Heterocyclic Chem.*, 5:331-35.

With F. M. Hershenson, K. F. King
The synthesis of fused azolones from ortho-substituted arenecarboxylic acids. *J. Org. Chem.*, 33:2543-44.

With G. H. Keller, C. L. Bell
Infrared spectra of 2-pyridone-¹⁸O and 2-pyridone-¹⁵O. *Can. J. Chem.*, 46:2475-79.

Electron-impact induced fragmentation of 2-substituted pyridines and picolines. *J. Heterocyclic Chem.*, 5:647-53.

With E. B. Sheinin, G. E. Wright, C. L. Bell
Diels-Alder addition of benzyne to 1-methyl-
2-pyridones. *Ibid.*, 5:859-62.

Reviews

Aromatic N-oxides, by E. Ochiai. *Amer. J. Pharm. Educ.*, 32:161.

BELL, CHARLES L., Associate Professor

Articles

With G. H. Keller, L. Bauer

Infrared spectra of 2-pyridone-¹⁸O and 2-pyridone-¹⁹O. *Can. J. Chem.*, 46:2475-79.

Electron-impact induced fragmentation of 2-substituted pyridines and picolines. *J. Heterocyclic Chem.*, 5:647-53.

With F. E. Hruska, T. A. Victor,
S. S. Danyluk

Medium effects on the nuclear magnetic resonance spectra of purines. *Biochemistry*, 7:3721-27.

With E. B. Sheinin, G. E. Wright, L. Bauer

Diels-Alder addition of benzyne to 1-methyl-2-pyridones. *J. Heterocyclic Chem.*, 5:859-62.

COVIELLO, DOMINICK A., Associate Professor

Articles

With N. L. Hines

α -Alkylloximino acid thiol esters: New class of compounds showing antimalarial activity. *J. Pharm. Sci.*, 57:688-690.

JOSEPH, NORMAN R., Associate Professor

Articles

Water and electrolyte balance in cells and tissues. In *Biology of the mouth*, ed. by P. Person, Amer. Assn. for the Advancement of Science, Washington, D.C., pp. 169-98.

Electrolyte balance and cellular aging. *Gerontologia*, 14:142-59.

With E. G. Goldin

Responses of connective tissue ground substance in wound healing. *A.M.A. Arch. Surg.*, 97:753-63.

With M. B. Engel, R. W. Pumphrey

Electrometric determination of surface charge of cultured mammalian cells. *Proc. Soc. Exp. Biol. and Med.*, 128:990-96.

LLOYD, ROBERT A., Assistant Professor

Articles

With A. E. M. Hodgson

A high precision "Signacon" mass-meter. *Nuclear Instr. and Methods*, 58:298.

PERKINS, ALFRED J., Professor

Articles

With H. S. Carlin

Predicting pharmaceutical incompatibilities of parenteral medications. *Amer. J. Hosp. Pharm.*, 25:271-79.

DOCTORAL DISSERTATIONS

Baum, Martin D. (R. Daniels, Adviser), Cyclic analogs of monoamine oxidase inhibitors: Arylpyrazolidines.

Gericke, Wolfgang (R. Daniels, Adviser), Radiation protective compounds: Heteroaryl ethers of 2-hydroxyethyl-2-mercapto-ethylamine and their derivatives.

Hershenson, Fred M. (L. Bauer, Adviser), Pyridyl and tetrahydropyridyl sulfides from 1-acetoxypyridinium salts and mercaptans.

Hewitson, Richard E. (L. Bauer, Adviser), Mechanism of the reaction of 2 ξ , 6 β -dibromocholest-4-en-3-one with potassium acetate.

Roseman, Karl A. (R. Daniels, Adviser), Stereochemical aspects of the Diels-Alder reaction with heterodienophiles. The conformation of the six-membered rings.

PHARMACOGNOSY AND PHARMACOLOGY

CRANE, FRANK A., Associate Professor of Pharmacognosy

Articles

With M. I. Blake, R. A. Uphaus, J. J. Katz

Effect of heavy water on the germination of a number of species of seeds. *Planta*, 78:35-38.

With M. J. Solomon

Isolation and characterization of some UV-Induced mutants of *Chlorella vulgaris* Prings. *J. Pharm. Sci.*, 57:2038-44.

LOEVY, HANNELORE T., Assistant

Professor of Zoology

Articles

Cortisone-induced teratogenic effects in mice.

Proc. Soc. Exp. Biol. and Med., 128:841-44.

With V. Fenyes

Spontaneous cleft palate in a family of Siamese cats. *Cleft Palate J.*, 5:57-60.

MORRIS, RALPH W., Associate Professor

of Pharmacology

Articles

With E. F. Lutsch

Susceptibility to morphine-induced analgesia in mice. *Nature*, 216:494-95.

Bulletins and Technical Reports

Tranquilizers. *PharmIndex* 10, 3:5-9.

Antihypertensives and diuretics. *Ibid.*, 10, 11:4-8.

Reviews

Learning medical terminology step-by-step, by Clara Gene Young and James D. Barger. *Amer. J. Pharm. Educ.*, 32:358-59.

ROWLATT, URSULA F., Assistant Professor of Zoology

Articles

Functional morphology of the heart in mammals. *Amer. Zoologist*, 8:221-29.

SMITH, A. E. WILDER, Professor of

Pharmacology

Books

Man's origin, man's destiny. Harold Shaw Pubs., Wheaton, Ill., 320 pp.

SMOLENSKI, STANISLAUS J., Instructor

in Pharmacognosy

Articles

With Elwina A. Bejnarowicz

Gas chromatographic analysis of the essential oil from *Achillea millefolium* L. *J. Pharm. Sci.*, 57, 12:2160-61.

PHARMACOLOGY

ANDERSON, EDMUND G., Ph.D., Associate Professor

Articles

With T. Shibuya

The influence of chronic cord transection on the effects of 5-hydroxytryptophan, 1-tryptophan and pargyline on spinal neuronal activity. *J. Pharm. Exp. Ther.*, 1, 164:185-90.

With N. R. Banna

The effects of 5-hydroxytryptamine antagonists on spinal neuronal activity. *Ibid.*, 2, 162: 319-25.

FEINBERG, HAROLD, Ph.D., Associate Professor

Articles

With E. Boyd, G. Tanzini

Mechanical performance and oxygen utilization of the isovolumic rabbit heart. *Amer. J. Physiol.*, 1, 215:132-39.

MARCZYNSKI, THADDEUS J., M.D., Associate Professor

Articles

With A. J. Rosen, J. T. Hackett

Post-reinforcement electrocortical synchronization and facilitation of cortical auditory evoked potentials in appetitive instrumental conditioning. *EEG Clin. Neurophysiol.*, 24:227-41.

With J. T. Hackett

Post-reinforcement electrocortical synchronization and facilitation of somatosensory cortical evoked potentials in appetitive instrumental conditioning. *EEG Clin. Neurophysiol.* 26:41-49.

MAYNERT, EVERETT W., M.D., Professor of Pharmacology

Articles

Catecholamine metabolism in the brain and adrenal medulla during addiction to morphine and in the early abstinence period. *Assn. Res. Nerv. Mental Dis.* 46:89-95.

With L. Isaac

Uptake and binding of serotonin by the platelet and its granules. Symp. on the biological role of indole derivatives. *Advances in Pharmacology* 6A:113-22.

SALAFSKY, BERNARD, Ph.D., Associate Professor

Articles

The effect of succinylcholine on denervated fast and slow skeletal muscle. *Arch. Intl. Pharm. Ther.*, 2, 174:294-303.

With J. Bell, M. A. Prewitt

Development of fibrillation potentials in denervated fast and slow skeletal muscle. *Amer. J. Physiol.*, 3, 215:637-43.

SCHULMAN, MARTIN P., Ph.D., Professor of Pharmacology

Articles

With E. T. Browning

[¹⁴C] Acetylcholine synthesis by cortex slices of rat brain. *J. Neurochem.*, 15:1391-1405.

UNNA, KLAUS R., M.D., Professor and Head of the Department of Pharmacology

Articles

With M. E. Kosman

Effects of chronic administration of the amphetamines and other stimulants on behavior. *Clin. Pharm. Ther.*, 2, 9:240-54.

PHARMACY

BLAKE, MARTIN I., Professor and Head of the Department

Articles

With F. A. Crane, R. A. Uphaus, J. J. Katz

Effect of heavy water on the germination of

a number of species of seeds. *Planta*, 78: 35-38.

With M. Stolar, H. S. Carlin

Effect of freezing on the stability of sodium methicillin injection. *Amer. J. Hosp. Pharm.*, 25:32-35.

With S. P. Agarwal

Analysis of sodium diphenylhydantoin and phenobarbital combinations by nonaqueous titration. *J. Assn. Offic. Anal. Chem.*, 51: 1013-16.

The determination of the pKa' value for 5,5-diphenylhydantoin. *J. Pharm. Sci.*, 57: 1434-35.

With S. Bose, H. L. Crespi, J. J. Katz

Comparative studies of photosynthetic processes in ordinary and fully deuterated algae. *Plant and Cell Physiol.*, Japan, 8: 545-55. 1967.

With R. G. Mrtek, H. L. Crespi, G. Norman, J. J. Katz

Biosynthesis of clavine alkaloids: proton magnetic resonance studies. *Phytochemistry*, 7, 9:1535-42.

With D. A. Nona, H. L. Crespi, J. J. Katz

Effect of deuterium oxide on the culturing of *Penicillium janczewskii* II: Isolation of fully deuterated griseofulvin. *J. Pharm. Sci.*, 57:975-79.

Effect of deuterium oxide on the culturing of *Penicillium janczewskii* III: Antifungal activity of fully deuterated griseofulvin. *Ibid.*, pp. 1993-95.

With H. J. Rhodes, R. P. Shiau

Oxidation of organic compounds with xenon trioxide I. Stoichiometric and kinetic studies involving cinnamyl alcohol, cinnamaldehyde, and cinnamic acid. *Ibid.*, pp. 1706-9.

With K. Mohammed, D. A. Nona

Effect of deuterium on the growth and antibiotic production of a number of strains of *Penicillium*. *Ibid.*, pp. 2049-53.

Reviews

Doctorate recipients from United States Universities, ed. by Fred D. Boercker. *Amer. J. Pharm. Educ.*, 32:534-35.

CARLIN, HERBERT S., Associate Professor of Pharmacy

Articles

With M. H. Stolar, M. I. Blake

Effect of freezing on the stability of sodium methicillin injection. *Amer. J. Hosp. Pharm.*, 25:32-35.

With G. F. Archanbault, F. R. Kenna

Pharmacy education: Its relationship to changing patterns of practice. *Hosp. Topics*, 46:81.

With A. Rostenberg, R. E. Pearson

Non-prescription drugs in dermatology. *Cutaneous Med. for the Practitioner*, 4:420-24.

With D. A. Nona

A change from dispensing pharmacy to clinical pharmacy at the University of Illinois. *Amer. J. Pharm. Educ.*, 32:253-56.

With A. J. Perkins

Predicting pharmaceutical incompatibilities of parenteral medications. *Amer. J. Hosp. Pharm.*, 25:271-79.

With R. E. Pearson

Drug survey technique — a pilot study. *Hosp. Formulary Mgmt.*, 3:37-41.

The impact of clinical pharmacy on pharma-

ceutical education. *Amer. J. Pharm. Educ.*, 32:587-92.

MRTEK, ROBERT G., Assistant Professor of Pharmacy

Articles

With H. L. Crespi, M. I. Blake, G. Norman, J. J. Katz

Biosynthesis of clavine alkaloids: Proton magnetic resonance studies. *Phytochemistry*, 7, 9:1535-42.

NONA, DANIEL A., Assistant Professor of Pharmacy

Articles

With M. I. Blake, H. L. Crespi, J. J. Katz

Effect of deuterium oxide on the culturing of *Penicillium janczewskii* II: Isolation of fully deuterated griseofulvin. *J. Pharm. Sci.*, 57:975-79.

Effect of deuterium oxide on the culturing of *Penicillium janczewskii* III: Antifungal activity of fully deuterated griseofulvin. *Ibid.*, p. 1993.

With M. I. Blake, K. Mohammed

Effect of deuterium on the growth and antibiotic production of a number of strains of *Penicillium*. *Ibid.*, p. 2049.

With H. S. Carlin

A change from dispensing pharmacy to clinical pharmacy at the University of Illinois. *Amer. J. Pharm. Educ.*, 32:253-56.

RHODES, HAROLD J., Associate Professor

Articles

With R. P. Shiao, M. I. Blake

Oxidation of organic compounds with xenon trioxide I. Stoichiometric and kinetic studies involving cinnamyl alcohol, cinnamaldehyde, and cinnamic acid. *J. Pharm. Sci.*, 57, 10:1706-9.

With A. Widra

Problems of serodiagnosis of cryptococcosis. *Mycopathologia* 36:353-56.

TURNBULL, RONALD T., Assistant Professor of Pharmacy

Articles

With K. E. Avis

The effect of a dimethylpolysiloxane fluid on the stability of menadione. *J. Pharm. Sci.*, 57:1409-12.

With J. A. Sula

Hospital emergency kit — guidelines for selection of drugs. *Hosp. Formulary Mgmt.*, 3: 32-35.

PHYSICAL MEDICINE AND REHABILITATION

ABRAMSON, DAVID I., Professor and Head of Department

Articles

Arterial disorders of the extremities: Clinical syndromes; assessment and measurement. *Arch. Phys. Med. and Rehab.*, 49: 315-25.

With S. Tuck, Jr., E. Buso, S. W. Lee, Constance Schwab

Local vascular and venous oxygen responses to aerobic and anaerobic muscular work. *Ibid.*, pp. 258-68.

BUSO, EDUARDO, Associate Professor

Articles

With D. I. Abramson, S. Tuck, Jr., S. W. Lee, Constance Schwab

Local vascular and venous oxygen responses to aerobic and anaerobic muscular work. *Arch. Phys. Med. and Rehab.*, 49:258-68.

SCHWAB, CONSTANCE, Assistant Professor

Articles

With D. I. Abramson, S. Tuck, Jr., E. Buso, S. W. Lee

Local vascular and venous oxygen responses to aerobic and anaerobic muscular work. *Arch. Phys. Med. and Rehab.*, 49:258-68.

PHYSIOLOGY

ARZBAECHER, ROBERT C., Associate Professor

Articles

With L. Stark, G. Agarwal, D. Hendry, W. O'Neill, J. Brodkey

Status of research in biomedical engineering. *IEEE Trans. on biomedical engineering. SME-15:210-31.*

With R. Dean, R. Price

Computer analysis of drug-induced changes in the electrocardiogram. *Proc. of the 21st ann. conf. on engineering in med. and biol.*, Nov., pp. 40-41.

BRAMANTE, PIETRO O., Associate Professor

Articles

Energy metabolism of the albino rat at minimal levels of spontaneous muscular activity. *J. Appl. Physiol.*, 24, 1:11-16.

Reviews

Physiology of exercise, by L. E. Morehouse and A. T. Miller, Jr. *Amer. Biol. Teacher*, 30, 1:74-76.

GOSE, EARL E., Associate Professor

Articles

With A. H. Klopff

Evolutionary pattern recognition networks. In *Proc. of the Hawaii international conf. on systems sciences*. Univ. Hawaii Press, pp. 542-45.

GRIMM, A. F., Associate Professor

See Histology.

HAWLEY, PHILIP L., Assistant Professor

Articles

Oxygen consumption in fluoride inhibited rat and bat heart homogenates. *Aerospace Med.*, 39:144-45.

Energy sources in hibernator heart: Pyridine nucleotide metabolism. *Proc. Soc. Exp. Biol. and Med.*, 129:430-33.

Reviews

Laboratory experiments in physiology, by B. H. Levendahl, A. A. Baerber. *Amer. Biol. Teacher*, 31:47.

OMACHI, AKIRA, Associate Professor

With C. B. Scott, B. E. Glader

2, 4-dinitrophenol inhibition of P₃₂ release from human red cells. *Experientia*, 24: 244-45.

With B. E. Glader

Role of cellular P₁ in P₁ transport and metab-

olism in human red cells. *Biochim. Biophys. Acta*, 150:524-27.

Phosphate release from human erythrocytes. *Ibid.*, 163:30-36.

SABA, THOMAS A., Assistant Professor of Physiology

Articles

With N. R. DiLuzio

Evaluation of humoral and cellular mechanisms of methyl palmitate induced reticuloendothelial depression. *Life Sciences*, 7: 337-47.

Involvement of the opsonic system in starvation induced depression of the reticuloendothelial system. *Proc. Soc. Exp. Biol. and Med.*, 128:869-75.

SCHWARTZ, NEENA B., Professor

Articles

Newer concepts of gonadotrophin and steroid feedback mechanisms. In *Textbook of gynecologic endocrinology*, ed. by J. J. Gold, Hoeber Med. Div., Harper and Row Pubs., N.Y., pp. 33-50.

With I. E. Lawton

A circadian rhythm of luteinizing hormone secretion in ovariectomized rats. *Amer. J. Physiol.*, 214:213-17.

Effects of barbiturate injection on the day before proestrus in the rat. *Neuroendocrinology*, 3:9-17.

With W. Talley

Daily measurement of pituitary LH content during pregnancy in the rat. *J. Reprod. and Fertil.*, 15:39-45.

With B. Shirley, J. Wolinsky

Effects of a single injection of an estrogen antagonist on the estrous cycle of the rat. *Endocrinology*, 82:959-68.

With J. A. McClintock

Changes in pituitary and plasma follicle stimulating hormone concentrations during the rat estrous cycle. *Ibid.*, 83:433-41.

With G. Brom

Acute changes in the estrous cycle following ovariectomy in the golden hamster. *Neuroendocrinology*, 3:366-77.

TROELSTRA, ARNE, Associate Professor

Articles

Detection of time-varying light signals as measured by the pupillary response. *J. Opt. Soc. Amer.*, 58:685-90.

With N. M. J. Schweitzer

Nonlinear analysis of electroretinographic b-wave in man. *J. Neurophysiol.*, 31:588-606.

WHITEHORN, WILLIAM V., Professor of Physiology and Assistant Dean

Articles

With A. F. Grimm

Myocardial length-tension-sarcomere relationships. *Amer. J. Physiol.*, 214:1378-87.

WOLF, A. V., Professor of Physiology and Head of Department

The potability of sea water. *Med. Coll. Virginia Q.*, 4:107-13.

With P. G. Prentiss

Conversion tables for guinea pig and rabbit serum and urine. In *Tables of properties of aqueous solutions related to index of refraction*. Buffalo, American Optical Co., Buffalo, No. 47.1, 68.1-68.4.

Osmotic concentrations: comparison of vapor pressure and freezing point methods. *J. Lab. and Clin. Med.*, 72:688-98.

With M. G. Brown

Concentrative properties of aqueous solutions: conversion tables. In *Handbook of chemistry and physics* (49th ed.), ed. by R. C. Weast, Chem. Rubber Co., Cleveland, pp. D-143-D-182.

Reviews

Origins of physiological regulations, by E. F. Adolph. *J.A.M.A.*, 206:1089.

ZUBER, BERT L., Assistant Professor

Articles

Eye movement dynamics in the cat. The final oculomotor pathways. *Exper. Neurology*, 20:255-60.

Sinusoidal eye movements from brain stem stimulation in the cat. *Vision Research*, 8:1073-79.

Dynamic characteristics of the oculomotor system in the cat. *Proc. 24th intl. congress physiol. sci.*, 7:482.

Dynamic characteristics of the fusion vergence eye movement system. *IEEE Trans. sys. sci. cyb.*, SSC-4: 72-79.

With R. J. Reinhart

Control of eye position by the lateral rectus muscle in the cat. *Proc. of the 21st ann. conf. on engineering in med. and biol.*, 10:25.4.

With J. Semmlow, L. Stark

Frequency characteristics of the saccadic eye movement. *Biophysical J.*, 8:1288-98.

PREVENTIVE MEDICINE AND COMMUNITY HEALTH

CARNOW, BERTRAM W., Assistant Professor

Articles

With M. H. Lepper

Health effects of air and water pollution. *Indus. Med. and Surg.*, 37, 4:281-84.

Pulmonary disease and air pollution — A Chicago problem. *Chicago Medicine*, 71:581.

LEVITSKY, JOHN M., Associate Professor

Articles

Sex chromosomes: some normal genetics and application to diagnosis of problems. In *Gynecologic endocrinology*, ed. by Gold and Levitsky, Harper and Row, Pubs., N.Y., pp. 423-48.

ROSENTHAL, SOL ROY, Professor

Articles

With A. A. Hakim, K. C. Thadhani, Wilma Spurrier

Purification and biochemical properties of an antigen from burned human skin. *Federation Proceedings*, March and April, 27:2.

PSYCHIATRY

ALTSCHUL, SOL, Clinical Assistant Professor

Articles

Denial and ego arrest. *J. Amer. Psychoanal. Assn.*, 16, 2:301-18.

BAITTLER, BRAHM, Clinical Assistant Professor

Reviews

Delinquent boys, their parents and grandparents, by Gustav Jonsson. *Arch. Gen. Psychiat.*, 19:505-7.

BECKTEL, JACK M., Instructor in Biostatistics

Articles

With R. Martinek, G. Forster, R. Morrissey
Comparison of methods for conducting laboratory proficiency surveys. *Health Lab. Sci.*, 5:239-56.

BEISER, HELEN R., Clinical Associate Professor

Articles

Fifty-seven years of child guidance: the experience of the Institute for Juvenile Research. *Excerpta Med. Internl. Congress. Series No. 150*, pp. 1640-42.

BERKSON, GERSHON, Research Associate
See Psychology, Chicago Circle.

BERNSTEIN, HASKELL, Clinical Assistant Professor

Articles

With A. Miller, G. Pollock, F. Robbins
An approach to the concept of identification. *Bull. Menninger Clinic*, 32, 4:239-52.

BURSTEIN, ALVIN G., Associate Professor in Psychology

Articles

With A. Soloff, J. Mitchell
Psychomotor performance and prognosis of chronic mental patients: an extension of the work of Brooks and Weaver. *Percept. Motor Skills*, 26:491-98.

CARMICHAEL, HUGH T., Professor Emeritus

Articles

Continuing education in medicine. *Alaska Med.*, 10, 4:157-59.

Continuing education for psychiatrists. *Amer. J. Psychiat.*, 125, 1:135-36.

Reviews

Paranoid and paranoiac psychoses, by Nils Retterstol. *Ibid.*, 124, 11:163-64.

CARTWRIGHT, ROSALIND D., Professor in Psychology

Articles

Unlocking the black box of eight hours sleep: Part I. *Chart*, 65:49-52.

Unlocking the black box of eight hours sleep: Part II. *Chart*, 65:75-78.

Relation of dreaming and REM sleep: the effects of REM deprivation under two conditions. *J. Personality and Soc. Psychol.*, 10:69-74.

Psychotherapeutic processes. In *Annual review of psychology*, 19:387-416.

Interpersonal perception and marital happiness. In *Social perception*, ed. by Toch and Smith, Von Nostrand, Princeton, N.J., pp. 227-34.

Reviews

The biology of dreaming, by Ernest Hartmann. *Arch. Gen. Psychiat.*, 18:770.

CHEIFETZ, DAVID I., Assistant Professor in Psychology

Articles

With D. C. Garron

Electroshock therapy and Bender-Gestalt performance. *Percept. Motor Skills*, 26, 3: 9-10.

DRYE, ROBERT C., Clinical Assistant Professor

Books

With R. R. Grinker, Sr., Beatrice Werble
The borderline syndrome. Basic Books, Pubs., N.Y., 274 pp.

EHRlich, DANUTA, Assistant Professor in Psychology

Articles

With D. Schroder

Rejection by mental health professionals: a possible consequence of not seeking appropriate help for emotional disorders. *J. Health and Soc. Behavior*, 9, 3:222-32.

FAWCETT, JAN, Assistant Professor

Articles

With J. W. Maas, H. Dekirmenjian

3-methoxy-4-hydroxy phenylglycol (MHPG) excretion in depressive states. *Arch. Gen. Psychiat.*, 19:129-34.

FLARSHEIM, ALFRED, Clinical Assistant Professor

Articles

The separation of management from the therapeutic setting in a paranoid patient. *Internl. J. Psychoanal.*, 48, 4:559-72.

Resolution of the mother-child symbiosis in a psychotic adolescent. *Bull. Chicago Soc. Adolescent Psychiat.*, 2, 1:6-16.

GARRON, DAVID C., Assistant Professor in Psychology

Articles

With D. Cheifetz

Electroshock therapy and Bender-Gestalt performance. *Percept. Motor Skills*, 26, 3: 9-10.

GEDO, JOHN E., Clinical Associate Professor

Articles

Noch einmal der "Gelehrte Säugling." *Psyche*, 22:301-19.

Freud's self-analysis and his scientific ideas. *American Imago*, 25:99-118.

With L. Sadow, J. Miller, G. Pollock, M. Sabshin, N. Schlessinger

The process of hypothesis change in three early psychoanalytic concepts. *J. Amer. Psychoanal. Assn.*, 16, 2:245-73.

Reviews

Psychoanalysis: the first ten years, by W. Stewart. *Arch. Gen. Psychiat.*, 18:765-66.

Psychoanalysis of heart attack, by D. Schneider. *Ibid.*, 19:241-42.

Psychoanalysis as an art and a science, ed. by H. Slochower. *Ibid.*, 19:504-5.

GIOVACCHINI, PETER L., Clinical Professor

Articles

Adolescent despair. *Bull. Chicago Soc. Adolescent Psychiat.*, 2, 1:1-8.

Compulsory happiness. *Arch. Gen. Psychiat.*, 18:650-57.

On regression. *Psychoanal. Forum*, 2:293-316.

- Creativity — ego mechanisms. *Intnl. J. Psychoanal.*, 49:613-28.
- Schizophrenia — treatability? *J.A.M.A.*, 200, 7:655.
- Schizophrenia — a panel discussion. *Ill. Med. J.*, 134, 2:150-52.
- Aspectos Yoicos de la Regresión. *Revista de Psicoanálisis*, 25, 1:177-93.
- El Tratamiento Psicoanalítico de los Trastornos de Carácter. *Cuadernos de Psicoanálisis*, 4, 1:23-41.
- L'Introjection Gelée. *Médecine et Hygiène*, 26:839-40.
- Marital interaction. *Psychoanal. Forum*, 2, 4:382-83.
- HAGGARD, ERNEST A., Professor in Psychology
- Articles
- The diagnostic interview as a data collection instrument. In *Studies in psychotherapy and behavioral change, Vol. 1, Research in individual psychotherapy*, ed. by M. J. Feldman, State Univ. New York, Buffalo, pp. 1-34.
- With R. D. Bock
- The use of multivariate analysis of variance in behavioral research. In *Handbook of measurement and assessment in behavioral sciences*, ed. by D. K. Whitla, Addison-Wesley Pub. Co., Reading, Mass., pp. 100-42.
- HALPER, IRA S., Clinical Assistant Professor
- Articles
- Psychotropic drugs. *Ill. Med. J.*, 133: 36-42.
- KARRER, RATHE, Assistant Professor in Psychology
- Articles
- Visual beats: phenomenology and preliminary data as a function of age. *Psychonomic Sci.*, 11:269-70.
- With J. Clausen
- Orienting response: frequency of occurrence and relation to other autonomic variables. *Amer. J. Ment. Defic.*, 73:455-64.
- KLING, ARTHUR, Associate Professor
- Articles
- Effects of amygdectomy and testosterone on sexual behavior of male juvenile macaques. *J. Comp. Physiol. Psychol.*, 65, 3:466-71.
- With T. Tucker
- Sparing of function following localized brain lesions in neonatal monkeys. In *The neuropsychology of development*, ed. by R. L. Isaacson, John Wiley and Sons, N.Y., pp. 121-45.
- With T. Tucker, D. Scharlock
- Sparing of photic frequency and brightness discriminations after striatectomy in neonatal cats. *J. Neurophysiol.*, 31:818-32.
- KOHN, HERBERT M., Assistant Professor in Psychology
- Articles
- With W. Pizzi, C. See
- Effects of magnesium peuroline on food and water intake in the rat. *Psychonomic Sci.*, 11:81-82.
- Reviews
- Hypnosis in man and animals, by Ferenc Andráss and Völgyesi. *Can. Veterinary J.*, 9:124-25.
- KRAMER, CHARLES H., Clinical Assistant Professor
- Articles
- Communicating with the patient. *Geriat. Nurs.*, Sept., 2 pp.
- Complications of geriatric rehabilitation. *Prof. Nurs. Home*, June-July, 5 pp.
- Self-inventory for growth. *Geriat. Nurs.*, March, 4 pp.
- Reflections of a psychiatrist: twenty years of nursing home changes. *Prof. Nurs. Home*, March, 4 pp.
- With J. R. Kramer
- The nursing home as a total therapeutic situation: some basic assumptions. *J. Geriat. Psychiatry*, 1, 2:179-229.
- With D. Kramer
- Medical care in some Illinois nursing homes: five-year follow-up, 1961-66. *J. Amer. Geriat. Soc.*, 16, 2:705-18.
- Is medical care improving? *Prof. Nurs. Home*, Jan., 4 pp.
- With H. Dunlop
- How to achieve a good relationship between the nurse and the physician. *Geriat. Nurs.*, May-June, 4 pp.
- Insight for the sighted. *Ibid.*, Feb., 2 pp.
- Bulletins and Technical Reports
- The relationships between child and family psychopathology: a suggested extension of psychoanalytic theory and technique. Kramer Foundation, Palatine, Ill., 56 pages.
- Psychoanalytically oriented family therapy: ten year evolution in a private child psychiatry practice. Kramer Foundation, Palatine, Ill., 40 pages.
- With B. Liebowitz, others
- Beginning phase of family treatment. The Family Institute of Chicago, Oak Park, Ill., 60 pages.
- KRAUSE, MERTON S., Associate Professor in Psychology
- Articles
- Clarification at intake and motivation for treatment. *J. Counsel. Psychol.*, 15:576-77.
- With D. J. Ransohoff, P. Cohen
- Promoting possible alcoholism referrals. *Comm. Ment. Hlth. J.*, 4:13-16.
- KYSAR, JOHN E., Associate Professor
- Articles
- The community psychiatrist and large organizations. *Ment. Hygiene*, 52, 2:210-17.
- The two camps in child psychiatry: a report from a psychiatrist-father of an autistic and retarded child. *Amer. J. Psychiat.*, 125, 1:103-9.
- Reactions of professionals to disturbed children and their parents. *Arch. Gen. Psychiat.*, 19:562-70.
- LEAVITT, FRANK, Instructor in Psychology
- Articles
- EEG activation and reaction time. *J. Exp. Psychol.*, 77, 2:194-99.
- LESSING, ELISE E., Assistant Professor in Psychology
- Articles
- Demographic, developmental and personality correlates of length of future time perspective (FTP). *J. Personality*, 36:183-201.

LEVY, LEO, Assistant Professor in Psychology

Articles

With A. Herzog, E. Slotkin

The evaluation of statewide mental health programs: a systems approach. *Comm. Ment. Hlth. J.*, 4, 4:340.

With L. Rowitz

An ecological analysis of treated mental disorders in Chicago. *Arch. Gen. Psychiat.*, 19, 5:571.

McGEE, THOMAS F., Assistant Professor in Psychology

Articles

Antidistestablishmentarianism by any other name. *Amer. J. Orthopsychiat.*, 38, 1: 161-62.

Supervision in group psychotherapy: a comparison of four approaches. *Intnl. J. Group Psychother.*, 18, 2:165-76.

Some basic considerations in crisis intervention. *Comm. Ment. Hlth. J.*, 4, 4:319-25.

With Frances R. Racusen

An evaluation of alumni group psychotherapy. *Arch. Gen. Psychiat.*, 18, 4:420-27.

With M. Williams, Frances R. Racusen, J. Cowen

Further evaluation of a small group living program with schizophrenics. *Ibid.*, 19: 717-26.

MAAS, JAMES W., Professor

Articles

With D. H. Landis

In vivo studies of the metabolism of norepinephrine in the central nervous system. *J. Pharm. Exp. Ther.*, 163, 1:147-62.

With J. A. Fawcett, H. Dekirmenjian

3-methoxy-4-hydroxy phenylglycol (MHPG) excretion in depressive states. *Arch. Gen. Psychiat.*, 19:129-34.

Reviews

Hyperventilation and hysteria, by Thomas P. Lowery, M.D. *Ibid.*, 19:245-46.

Biology of emotions: new understanding derived from biological multidisciplinary investigations: first electrophysiological measurements, by Edmund Jacobson, M.D. *Ibid.*, 18:382-83.

MILLER, ARTHUR A., Clinical Associate Professor

Articles

With D. Offer, others

Creativity and the adolescent. *Bull. Chicago Soc. Adolescent Psychiat.*, 2, 1:17-19.

With G. Pollock, H. Bernstein, F. Robbins

An approach to the concept of identification. *Bull. Menninger Clinic*, 32, 4:239-52.

Reviews

The concept of identity, by David J. deLevita. *Psychoanal. Q.*, 37:142-43.

MUSLIN, HYMAN L., Associate Professor

Articles

With N. Schlessinger, M. Baittle

Teaching and learning psychiatric observational skills. *Arch. Gen. Psychiat.*, 18: 549-52.

With P. R. Singer, M. F. Meuser, J. P. Leahy

Research and learning in psychiatric interviewing. *J. Med. Educ.*, 43, 3:398-404.

Bulletins and Technical Reports

With H. M. Tufo, A. M. Ostfeld

Central nervous system complications in the

surgical patient: diagnosis and management. Year Book Med. Pubs., Inc., Chicago, 30 pp.

POLLOCK, GEORGE H., Clinical Professor

Books

With T. M. French, F. Alexander

Psychosomatic specificity (Vol. I). Experimental study and results. Univ. Chicago Press, 263 pp.

Articles

Psychosomatic illness. In *International encyclopedia of the social sciences*, ed. by David Sills. The Macmillan Company and the Free Press, N.Y., 13:135-43.

Franz Alexander, 1891-1964. *Ibid.*, 1:262-63. The possible significance of childhood object loss in the Joseph Breuer-Bertha Pappenheim (Anna O.)-Sigmund Freud relationship: I. Joseph Breuer. *J. Amer. Psychoanal. Assn.*, 16, 4:711.

With L. Sadow, J. Gedo, J. Miller, M. Sabshin, N. Schlessinger

The process of hypothesis change in three early psychoanalytic concepts. *J. Amer. Psychoanal. Assn.*, 16:245-73.

With A. Miller, H. Bernstein, F. Robbins

An approach to the concept of identification. *Bull. Menninger Clinic*, 32, 4:239-52.

RACUSEN, FRANCES R., Assistant Professor in Psychology

Articles

With T. F. McGee

An evaluation of alumni group psychotherapy. *Arch. Gen. Psychiat.*, 18, 4:420-27.

With T. F. McGee, M. Williams, J. Cowen

Further evaluation of small group living program with schizophrenics. *Arch. Gen. Psychiat.*, 19, 12:717-26.

RHEAD, CLIFTON, Clinical Assistant Professor

Articles

With A. Abrams, H. Trosman, P. Margolis

The psychological assessment of police candidates. *Amer. J. Psychiat.*, 124, 11: 1575-80.

RUDY, LESTER H., Associate Professor

Articles

A clinical trial with Mesoridazine. *Dis. Nerv. Syst.*, 29:6.

Reviews

Neuropsychiatry in World War II (Vol. I); Zone of Interior, by Col. R. Anderson, Col. A. Glass, and Lt. Col. R. Bernucci. *Arch. Gen. Psychiat.*, 19, 2:243-44.

RUESS, AUBREY L., Associate Professor in Psychology

Articles

Convergent psychosocial factors in the cleft palate clinic. In *Cleft palate habilitation*, ed. by R. N. Lencione, Syracuse Univ. Press, Syracuse, N.Y., pp. 53-70.

SABSHIN, MELVIN, Professor and Head of Department

Articles

Toward more rigorous definitions of mental health. In *Comprehensive mental health: the challenge of evaluation*, ed. by L. M. Roberts, N. Greenfield, and M. M. Miller, Univ. Wisconsin Press, Madison, pp. 15-27.

With others

Student protests: a phenomenon of behavioral sciences research. *Science*, 161: 20-23.

With L. Sadow, J. Gedo, J. Miller, G. Pollock, N. Schlessinger

The process of hypothesis change in three early psychoanalytic concepts. *J. Amer. Psychoanal. Assn.*, 16, 2:245-73.

SADOW, LEO, Clinical Assistant Professor

Articles

With J. Gedo, J. Miller, G. Pollock, M. Sabshin, N. Schlessinger

The process of hypothesis change in three early psychoanalytic concepts. *J. Amer. Psychoanal. Assn.*, 16, 2:245-73.

SCHLESSINGER, NATHAN, Clinical Assistant Professor

Articles

With H. Muslin, M. Baittle

Teaching and learning psychiatric observational skills. *Arch. Gen. Psychiat.*, 18: 549-52.

With L. Sadow, J. Gedo, J. Miller, G. Pollock, M. Sabshin

The process of hypothesis change in three early psychoanalytic concepts. *J. Amer. Psychoanal. Assn.*, 16, 2:245-73.

SINGER, PAUL R., Assistant Professor in Psychology

Articles

With H. Muslin, M. Meuser, J. P. Leahy

Research and learning in psychiatric interviewing. *J. Med. Educ.*, 43:398-404.

SOLOMON, DANIEL, Associate Professor in Psychology

Book Reviews

Wisconsin studies of the measurement and prediction of teacher effectiveness. A summary of investigations, by A. S. Barr et al. *Adult Educ.*, 18:225-26.

STEIGMAN, MARTIN J., Assistant Professor in Psychology

Articles

Community services for the mentally retarded. *Hosp. and Comm. Psychiat.*, 19, 5:142-44.

Reviews

Planning community services for the mentally retarded, ed. by E. L. Meyer. *Amer. J. Ment. Defic.*, 73:162-63.

TUCKER, THOMAS J., Assistant Professor in Psychology

Articles

With A. Kling

Sparing of function following localized brain lesions in neonatal monkeys. In *The neuropsychology of development*, ed. by R. L. Isaacson, John Wiley and Sons, N.Y., pp. 121-45.

With A. Kling, D. Scharlock

Sparing of photic frequency and brightness discrimination after striatectomy in neonatal cats. *J. Neurophysiol.*, 31:818-32.

VAN PELT, JOHN D., Instructor in Psychology

Articles

With A. S. Elstein

Structure of staff perceptions of psychiatric patients. *J. Consult. Clin. Psychol.*, 32: 550-59.

VISOTSKY, HAROLD M., Clinical Associate Professor

Articles

Mission to Russia. *Psychiatry Digest*, 29: 11-16.

The treatment system. *Amer. J. Psychiat.*, 125:650-56.

With N. Hansell, M. Wodarczyk

The mental health expediter. *Arch. Gen. Psychiat.*, 18:392-99.

With P. Barglow, others

Some psychiatric aspects of illegitimate pregnancy in early adolescence. *Amer. J. Orthopsychiat.*, 38, 4:672-88.

WALTERS, ORVILLE S., Professor

See Health Service, Urbana Campus.

WARREN, SUE ALLEN, Research Associate Professor in Psychology

Articles

Psychological evaluation of the mentally retarded: a review of techniques. *Ped. Clin. N. Amer.*, 15, 4:943-56.

WEINBERG, JACK, Clinical Professor

Articles

Growth through grief. In *4th Annual Clergymen's Institute*, Forest Hospital, Des Plaines, Ill., pp. 1-6.

Psychological meanings of food. In *Proc. dietary service and psychol. aspects of aging*, Utah Div. of Health, Utah State Univ., Park City, Utah, April 15-19, pp. 22-38.

WILLIAMS, MEYER, Associate Professor in Psychology

Articles

With T. McGee, Frances Racusen, J. Cowen

Further evaluation of a small group living program with schizophrenics. *Arch. Gen. Psychiat.*, 19:717-26.

WILLRICH, KARL L., Assistant Professor

Articles

Familientherapie: Ein vielschichtiger Weg zum psychisch Kranken. *Praxis der Psychotherapie*, 13:1-10.

RADIOLOGY

ALCORN, FRANKLIN S., Assistant Professor

Articles

Mammography screeners: modified programmed learning for nonradiologic personnel. *Radiology*, 90, 2:336-38.

With D. P. Slaughter, H. W. Southwick, L. J. Humphrey

The role of mammography in surgery of the breast. In *Surgery of the breast*. Year Book Med. Pubs., Chicago, pp. 36-60.

BOGDONOFF, MAURICE L., Associate Professor

Books

Radiology — a method of studying chest physiology. Grune and Stratton, N.Y., 20 pp.

GREENFIELD, GEORGE B., Clinical Associate Professor

Articles

With L. Love, T. W. Braun, R. Moncada, R. J. Freeark, R. J. Baker

Arteriography of splenic trauma. *Radiology*, 91, 1:96-102.

HARVEY, ROGER A., Professor

Bulletins and Technical Reports

Responsibility of the university medical school for undergraduate teaching in cancer. Cancer Control, Latin American Regional Conference, UICC Technical Report Series—Vol. 1, Geneva, pp. 60-62.

HENDRICKSON, FRANK R., Professor

Articles

Radiation problems in integrated therapy of the oropharynx and larynx. In *Cancer therapy by integrated radiation and operation*, Charles C. Thomas, Pub., Springfield, Ill., pp. 47-52.

With E. J. Liebner

Results of pre-operative radiotherapy for supraglottic larynx cancer. *Ann. Otol., Rhin., and Laryng.*, 77, 2:222-31.

With L. Millburn

Radical neck dissection: the followup. *Laryngoscope*, 78, 2:270-78.

With L. Millburn, L. P. Faber

Curative treatment of epidermoid carcinoma of the esophagus. *Amer. J. Roentg., Rad. Ther. and Nucl. Med.*, 103, 2:291-99.

With L. Millburn, G. G. Hibbs

Treatment of spinal cord compression from metastatic carcinoma. *Cancer*, 21, 3:447-52.

With M. Millburn, L. O'Grady

Radical radiation therapy and total body irradiation in the treatment of Ewing's sarcoma. *Ibid.*, 22, 5:919-25.

Reviews

Care of radiation casualties, by John Blakely. *Radiology*, 91, 5:1054.

Modern trends in radiotherapy, ed. by Thomas J. Deeley, Constance A. P. Wood. *Ibid.*, 90, 3:606.

HIBBS, GEORGE G., Assistant Professor

Articles

With L. Millburn, F. Hendrickson

Treatment of spinal cord compression from metastatic carcinoma. *Cancer*, 21, 3:447-52.

HILL, B. JAY, Associate Professor

Articles

With W. Waldrop, C. Monroe

Voice changes following adenotonsillectomy. *Laryngoscope*, 78, 8:1410-18.

KIRSH, ISRAEL E., Associate Professor

Articles

With T. H. Brendel

The importance of giant duodenal ulcer. *Radiology*, 91, 1:14-19.

LE VAN, HOA, Assistant Professor

Articles

Direct and indirect effect of x-irradiation on conditioned avoidance behavior. *Med. Exp.*, 18:161-68.

Effect of magnesium pemoline on the survival of mice with Ehrlich ascites tumor. *Experimentia*, 24:830-32.

Effect of pre and post irradiation administration of magnesium pemoline on radioresistance. *Intnl. J. Clin. Pharm.*, 1:514-16.

Enhancement of radioresistance in mice simultaneously exposed to DMSO vapor and x-irradiation. *Experimentia*, 24:712-13.

Radioprotective effect of magnesium pemoline: a comparison with pemoline and dextroamphetamine. *J. Pharm. Sci.*, 57: 1033-34.

Short-term and long-term radioprotective effect of magnesium pemoline. *Experimentia*, 24:477-79.

Threshold doses for conditioned avoidance behavior using low dose rate gamma radiation. *Acta Rad.*, 7:141-47.

With W. S. Moos

Post-irradiation avoidance and recovery of preference of saccharin sodium in mice. *Med. Exp.*, 18:45-54.

LIEBNER, EDWIN J., Professor

Articles

With F. R. Hendrickson

Results of pre-operative radiotherapy for supraglottic larynx cancer. *Ann. Otol., Rhin., and Laryng.*, 77, 2:222-31.

With B. Potter, H. Aram

Hodgkins disease—cutaneous nodules preceding systematization. *Cutis.*, 4, 4:415-19.

Reviews

Roentgen diagnosis, vol. V, abdomen (2nd Amer. ed.), by H. R. Schinz, et al. *Review of Surgery*, 25:364.

MELAMED, MYRON, Clinical Associate Professor

Articles

With J. L. Melamed, S. E. Rabushka

Ischial apophyseolysis: emphasis on diagnosis of the acute fracture. *Clin. Rad.*, 19: 465-69.

Unusual gastric diverticula. *Radiology*, 90: 1006-08.

The geriatric chest, a radiographic survey. *Geriatrics*, 23:136-41.

MONCADA, ROGELIO, Clinical Assistant Professor

Articles

With L. Love, G. B. Greenfield, T. W. Braun, R. J. Freeark, R. J. Baker

Arteriography of splenic trauma. *Radiology*, 91, 1:96-102.

MOOS, WALTER S., Research Professor and Radiation Physicist

Articles

With H. LeVan

Post-irradiation avoidance and recovery of preference of saccharin sodium in mice. *Med. Exp.*, 18:45-54.

OVADIA, JACQUES, Assistant Professor

Articles

Physical aspects of electron therapy with a 35 MeV linear accelerator. In *Frontiers of radiation therapy and oncology* (vol. 2), ed. by J. M. Vaeth, S. Karger, Basel, N.Y., pp. 25-35.

VALVASSORI, GALDINO E., Professor

Articles

With J. D. Clemis

Recent radiographic and clinical observations on the vestibular aqueduct. *Otol. Clinics N. Amer.*, pp. 339-46.

With G. E. Hord

Traumatic sinus disease. *Seminars in Roentg.*, 3, 2:160-71.

With R. F. Naunton

Inner ear anomalies: their association with atresia. *Laryngoscope*, 78:1041-49.

RESEARCH IN MEDICAL EDUCATION

HARLESS, WILLIAM G., Chief,
Instructional Systems

Articles

With T. H. Lynn, R. C. Duncan,
E. D. Jacobson, J. A. Cutter,
A. W. Nunnery

A progress report of computer assisted instruction at the University of Oklahoma Medical Center. *Proceedings conference on the use of computers in medical education*, April 3-5, 1968, pp. 100-05.

McGUIRE, CHRISTINE H., Lecturer

Articles

An evaluation model for professional education-medical education. In *Proceedings of the 1967 invitational conference on testing problems*, Educational Testing Service, Princeton, N.J., pp. 37-52.

Trends in testing and evaluation in professional and adult education. *Educ. and Psycholog. Testing AERA Rev. Educ. Res.*, 37, 1:49-60.

A behavioral approach to the examination and evaluation of medical curricula. *Education Medica y Salud*, 2:3.

With H. G. Levine

Role-playing as an evaluative technique. *J. Educ. Meas.*, 5, 1:1-8.

With J. W. Williamson

Consecutive case conference: an educational evaluation. *J. Med. Educ.*, 43, 10:1068-74.

With J. Charvat, V. Parsons

A review of the nature and uses of examinations in medical education. Public Health Papers No. 36 World Health Organization, Geneva, Switzerland, 74 pp.

MILLER, GEORGE E., Director

The orthopaedic training study. *J.A.M.A.*, 206, Oct. 4, pp. 601-6.

With J. W. Williamson, M. Alexander

Priorities in patient-care research and continuing medical education. *J.A.M.A.*, 204, April 22, pp. 303-8.

SURGERY

ALBRECHT, RONALD F., Assistant
Professor, Anesthesiology

Articles

With M. S. Sadove

Sedatives and tranquilizers in the treatment of pain. *Med. Clin. N. Amer.*, 52:47-53.

With M. S. Sadove, W. Schumner

Monitoring in the intensive care unit and the recovery room. *Surg. Clin. N. Amer.*, 48: 9-15.

APTER, JULIA T., Professor

Articles

Some problems in visco-elasticity. In *Some mathematical models in biology*, ed. by Thrall, Mortimer, Rebman, Baum, Univ. Mich. Press, Ann Arbor, pp. A05.1-A05.8.

Analogous computer solution of a set of non-linear differential equations of motion of dog aorta. II. The effects of hypertension, aging, and inflow forcings, ed. by Enslin. *Proc. 1966 Rochester conference on data acquisition and processing*, Pergamon Press, Oxford and N.Y., pp. 1-13.

With E. Marquez

Correlation of visco-elastic properties of large

arteries with microscopic structure. V. Sinusoidal forcings at low and at resonance frequencies. *Circulation Res.*, 22:393-404.

Dynamic visco-elastic measurements on bio-materials composed of muscle, elastin, and collagen at low and at resonance frequencies. *Biophys. J.* 8:A117.

With E. Marquez, M. Janas

Dynamic visco-elastic anisotropy of canine aorta correlated with aortic wall composition. *Proc. of the 21st ann. conf. on engineering in med. and biol.*, 44:5.

With J. Chow

Wave propagation in a viscous incompressible fluid contained in a flexible visco-elastic tube. *J. Acoust. Soc. Amer.*, 44:437-43.

With W. Graessley

A relation between positive phase shift and elastic modulus enhancement of smooth muscle. *Experientia*, 24:72-75.

With H. Najafi

A test for transplantability of animal hearts. *J.A.M.A.*, 206:2881.

Reviews

Quantitative research in human biology and medicine, by S. Peller. *J. Clin. Pathol.*, 21: 788.

BADER, KARL F., Clinical Instructor

Articles

With J. W. Curtin

The application of silastic underlays and pulleys for tendon surgery. *J. Pl. and Reconstr. Surg.*, 41:157-64.

Successful silicone tendon prosthesis. *Arch. Surg.*, 97:406-11.

BAKER, ROBERT J., Professor

Articles

Hidden injuries to the liver. *Hosp. Med.*, 4:32.

Effects of alcohol on the pancreas. *J.A.M.A.*, 206:376-77.

Emergency repair of lacerations. *Consultant*, 8:39.

With R. Zajitchuk, W. C. Shoemaker,
E. L. Strohl

External pancreatic secretion in man. *Bull. Intl. Soc. Surg.*, 27:81.

With W. C. Shoemaker, P. A. Mohr,
K. J. Printen, J. J. Amato, S. Youssef

Hemodynamic monitoring of critically ill patients before and after extensive surgical procedure. *Proc. Inst. Med. Chicago*, 27, 3:57.

With R. J. Freeark, L. Love

Active diagnostic approach to blunt abdominal trauma. *Surg. Clin. N. Amer.*, 48:97-109.

The role of aortography in the management of blunt abdominal trauma. *J. Trauma*, 8: 557-71.

With R. J. Freeark, W. C. Shoemaker

Aortography in blunt abdominal trauma. *Arch. Surg.* 96:705-11.

BALAGOT, REUBEN C., Professor,
Anesthesiology

Articles

With V. R. Bandelin

Preoperative and postoperative inhalation therapy. *Surg. Clin. N. Amer.*, 48:29-36.

Reviews

Claude Bernard and experimental medicine, by M. B. Visscher and Francisco Grande. *Chicago Med.*, 71:265-66.

BANDELIN, VALERIE R., Clinical Instructor, Anesthesiology

Articles

With R. C. Balagot

Preoperative and postoperative inhalation therapy. *Surg. Clin. N. Amer.*, 48:29-36.

BAUMRUCKER, GEORGE O., Clinical Assistant Professor, Urology

Books

Transurethral prostatectomy techniques and hazards. Williams and Wilkins Co., Baltimore, Md., 150 pp.

Articles

Improved cystoscopic ureteral catheter deflector. *J. Urol.*, 99:826.

BOMBECK, C. THOMAS, Instructor

Articles

With E. A. Smuckler, L. M. Nyhus

Structural and functional changes in the isolated perfused liver associated with halothane and chloroform. In *Toxicity of anesthetics*, ed. by E. R. Fink, Williams and Wilkins Co., Baltimore, Md., pp. 176-85.

With C. Biava, R. E. Condon, L. M. Nyhus

Parameters of normal liver function in the isolated, perfused bovine liver. In *Organ perfusion and preservation*, ed. by J. C. Norman, Appleton-Century-Crofts, N.Y., pp. 573-619.

With P. D. Goldsworthy, M. D. Middleton, K. A. Kelly, T. Aoki, L. M. Nyhus

Effects of arginine, glutamate, and aspartate on ammonia utilization in the perfused bovine liver. *Arch. Biochem. Biophys.*, 128: 153-62.

With T. Aoki, E. A. Smuckler, L. M. Nyhus

The effect of halothane on liver detoxification processes. *Bull. de la Soc. Int. de Chir.*, 4:259.

With A. G. Pissidis, L. M. Nyhus

The choleric action of gastrin: studies in the intact animal and the isolated perfused liver. *Gastroenterology*, 54:1290.

CALDWELL, RICHARD C., Clinical Instructor

Articles

The motorcycle: its risks and hazards. *Pres.-St. Luke's Hosp. Med. Bull.*, 7:9-14.

CONDON, ROBERT E., Associate Professor

Articles

With C. T. Bombeck, C. Biava, L. M. Nyhus

Parameters of normal liver function in the isolated, perfused bovine liver. In *Organ perfusion and preservation*, ed. by J. C. Norman, Appleton-Century-Crofts, N.Y., pp. 573-619.

Resultats des tentatives de traitement actif de l'insuffisance hepatique. *Press. Med. (Paris)*, 76:62.

Spontaneous resolution of experimental clotted hemothorax. *Surg. Gynecol. and Obstet.*, 126:505-15.

Locked vertical mattress stitch for skin closure. *Ibid.*, 127:839.

With G. E. Granville, P. H. Jordan, A. H. Helgason

Hypercalcemic crisis and intractable gastrointestinal ulceration in a patient with endocrine polyglandular disease. *Ann. Surg.*, 167:185-90.

With R. Williams, H. S. Williams, L. M. Blendis, L. Kreel

Splenic blood flow in cirrhosis and portal hypertension. *Clin. Sci.*, 34:441-52.

CUNNINGHAM, MYLES P., Clinical Assistant Professor

Articles

With M. Arlen

Medullary fibrosarcoma of the bone. *Cancer*, 21:31-37.

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A face saving procedure: marginal resection of the mandible for anterior oral cancer. *Ill. Med. J.*, 133:166-69.

CURTIN, JOHN W., Professor, Head of Division of Plastic Surgery

Articles

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The application of silastic underlays and pulleys for tendon surgery. *J. Pl. and Recon. Surg.*, 41:157-64.

Successful silicone tendon prosthesis. *Arch. Surg.*, 97:406-11.

With S. Pruzansky, J. Ellenby, H. Gold

Somatic and psychological rehabilitation of a facially deformed young adult. *J. Amer. Dental Assn.*, 74:7.

DAS GUPTA, T. K., Associate Professor

Articles

Cellular hypertrophy in rat pineals after castration. *J. Endocr.*, 41:607-8.

With R. O. Weller

Experimental hypertrophic neuropathy: An electron microscope study. *J. Neur. Neuro-Surg. and Psych.*, 31:34-42.

de PEYSTER, F. A., Clinical Associate Professor

Reviews

An atlas of advanced surgical techniques, by E. J. Beattie, and S. G. Economou. *Pres.-St. Luke's Hosp. Med. Bull.*, 7:124.

DIFFENBAUGH, WILLIS G., Clinical Associate Professor

Articles

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The appendicitis two step, by Felix Mendelssohn. *Surg. Gynecol. and Obstet.*, 127: 842-46.

DYE, WILLIAM S., Clinical Professor

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Rupture of an otherwise normal aortic valve. *J. Thorac. Cardiovas. Surg.*, 56:57-62.

With A. L. Graham, H. Najafi, H. Javid, J. A. Hunter, O. C. Julian

Ruptured abdominal aortic aneurysm: surgical management. *Arch. Surg.*, 97:1024-31.

EVERSON, TILDEN C., Clinical Professor

Books Edited

Symposium on the armanentarium of the surgeon. Guest Editor, Surgical Clinica of North America, W. B. Saunders Co., Philadelphia.

Reviews

Surgery of the alimentary tract, by J. H. Garlock. *Gastroenterology*, 35:154-55.

FABER, L. PENFIELD, Clinical
Associate Professor

Articles

The management of severe blunt chest trauma. *Pres.-St. Luke's Hosp. Med. Bull.*, 7:27-32.

With L. Millburn, F. Hendrickson

Curative treatment of epidermoid carcinoma of the esophagus. *Amer. J. Roentgenology*, 103:291-99.

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Concomitant intrathoracic aneurysm and bronchial rupture due to trauma: successful repair. *Ann. Thorac. Surg.*, 5:47-54.

With A. Ahmadi, R. Jensik, F. Milloy

Intrathoracic splenosis. *J. Thorac. Cardiovas. Surg.*, 55:677-81.

With R. Callaghan, S. Patel

Bronchial brushing: A new technique for diagnosis of pulmonary lesions. *Pres.-St. Luke's Hosp. Med. Bull.*, 7:103-9.

FLANAGAN, MALACHI J., Assistant
Professor, Urology

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With J. A. Kozak

Congenital unilateral multicystic disease of the kidney. *Arch. Surg.*, 96:983-86.

With J. A. Kozak, J. H. McDonald

Combined suture and methyl 2-cyanoacrylate monomer for reanastomosis of the ureter. *Trans. Amer. Assn. Genitourin. Surg.*, 59:14-156.

GOLDIN, ELLIOT G., Assistant Professor

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Responses of connective tissue ground substance in wound healing. *Arch. Surg.*, 97:753-63.

GRAF, EDWIN C., Clinical Associate
Professor, Urology

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Carcinoma of the urachus. *J. Urol.*, 100:738-43.

GREELEY, PAUL W., Clinical Professor,
Plastic Surgery

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With A. G. Middleton

Emergency room management of facial injuries. In *Medical and surgical emergencies*, ed. by J. H. Schneewind, pp. 59-74.

With R. Ivy

Memorium to Rear Admiral Lucius Johnson. *J. Pl. and Recon. Surg.*, 41:601-3.

HUNTER, JAMES A., Associate Professor

Articles

With H. Najafi, W. S. Dye, H. Javid,
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Ruptured abdominal aortic aneurysm: surgical management. *Arch. Surg.*, 97:1024-31.

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The distinct syndrome of spontaneous abdominal aortocaval fistula. *Amer. J. Med.*, 44:464-73.

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O. C. Julian

Rupture of an otherwise normal aortic valve. *J. Thorac. Cardiovas. Surg.*, 56:57-62.

With A. L. Graham, H. Najafi, W. S. Dye,
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JENSIK, ROBERT J., Clinical Professor

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JULIAN, ORMAND C., Professor

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Rupture of an otherwise normal aortic valve. *J. Thorac. Cardiovas. Surg.*, 56:57-62.

With A. L. Graham, H. Najafi, W. S. Dye,
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Ruptured abdominal aortic aneurysm: surgical management. *Arch. Surg.*, 97:1024-31.

KIEFER, JOSEPH H., Professor, Urology

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Urethral injury associated with pelvic fracture. *J. Trauma*, 8:1042-48.

KILBOURNE, BURTON C., Clinical
Associate Professor

Articles

Management of complicated hand fractures. *Surg. Clin. N. Amer.*, 48:201-13.

KING, LOWELL, R., Professor, Urology

Articles

Apparent ureteropelvic junction obstruction caused by vesicoureteral reflux. *Ill. Med. J.*, 133:711-15.

Editorial comments. In *Yearbook of Urology*, Year Book Med. Pubs., Chicago.

With R. M. Wendel, M. A. Surian, J. J. Burden

Vesicoureteral reflux: a classification based upon etiology and results of treatment. *J.A.M.A.*, 203:169-74.

With J. M. Holland, H. K. A. Schirmer,
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Pyeloileal urinary conduit: an eight-year experience in thirty-seven patients. *J. Urol.*, 99:427-33.

KUKRAL, JOHN C., Clinical Assistant
Professor

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Gastric ulcer: an appraisal. *Surgery*, 63:1024-36.

With J. Pollitt, W. Dobryszczyka, A. Carney

Serum cholesterol, uric acid and triglyceride concentrations in patients with Buerger's disease, arteriosclerosis obliterans, venous thromboses and Raynaud's disease. *J.A.M.A.*, 204:530.

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The role of the liver and surgical stress in erythropoietin metabolism. *Surg. Forum*, 19:48-51.

LANGSTON, HIRAM T., Clinical Professor

Articles

Surgery for pulmonary tuberculosis. In *Lewis' practice of surgery*, ed. by F. H. Ellis, Harper and Row, Pubs., N.Y., pp. 1-70.

The thorax, pleura and lungs. In *Christopher's textbook of surgery* (9th ed.), ed. by Loyal Davis, W. B. Saunders Co., Philadelphia, Chapter 19.

With S. E. Rabushka

Pseudocavities of the lung. *Amer. Rev. Resp. Dis.*, 97:644-54.

With G. E. Milles, W. Dalessandro

Reduce your transfusion hazard by 50%. Get off the "one transfusion hook." *Chicago Med.*, 71:655-56.

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With L. Malone, R. Norton

Immunoelectrophoretic identification of red cell envelope proteins in trauma and shock patients. *Fed. Proc.*, 27:384.

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Lymphatic decompression therapy of "intractable" ascites. *Amer. J. Gastroent.*, 50:47-54.

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Vascular responses in the lung following trauma and shock. *J. Trauma*, 8:715.

MASON, JAMES H., Assistant Professor

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Intra-arterial infusion cancer chemotherapy. *Surg. Clin. N. Amer.*, 48:79-89.

With W. L. Wilson, F. J. Ansfield,

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The phase I investigation of acetophenone (NSC 62512) 2-dimethyl-amino-4-dihydroxy-hydrochloride. *Cancer Chemo. Rpts.*, 52:297-99.

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The pulmonary arterial supply to the upper lobe of the left lung. *Surg. Gynecol. Obstet.*, 126:811-24.

Surgical aspects of the pulmonary arterial supply to the middle and lower lobes of the lungs. *Surg. Gynecol. and Obstet.*, 127:531-37.

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Pain relief for office procedures. *Med. Clin. N. Amer.*, 52:173-81.

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With C. R. Valeri, C. E. Brodine

Clinical experience in the use of frozen blood

in combat casualties. *New Engl. J. Med.*, 278:14.

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Fluid and electrolyte balance in penetrating head wounds. *Surgery*, 63:396.

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Hemorrhagic shock in the baboon: I. Circulatory and metabolic effects of dilutional therapy. Preliminary report. *J. Trauma*, 8:837.

With N. J. Proctor, L. D. Homer, B. D. Litt

Hemorrhagic shock in the baboon: II. Changes in lung compliance associated with hemorrhagic shock and resuscitation. *Ibid.*, 8:842.

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With O. C. Julian

Surgical management of arteriosclerosis involving the lower extremities. *Connecticut Med.*, 32:808-13.

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Ruptured abdominal aortic aneurysm: surgical management. *Arch. Surg.*, 97:1024-31.

With Julia Apter

A test for transplantability of animal hearts. *J.A.M.A.*, 206:2881.

NENNHAUS, H. P., Clinical Assistant

Professor

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The distinct syndrome of spontaneous abdominal aortocaval fistula. *Amer. J. Med.*, 44:464-73.

NYHUS, LLOYD M., Professor and Head

of the Department

Articles

With M. Mignon

The antrum and its hormone gastrin. In *Spezielle Magen Chirurgie*, ed. by F. Holle, Springer-Verlag, Berlin-Heidelberg, N.Y., pp. 77-86.

With J. Rudick

The treatment of massive gastroduodenal hemorrhage: vagotomy and pyloroplasty. *Ibid.*, pp. 406-13.

With E. A. Smuckler, C. T. Bombeck

Structural and functional changes in the isolated perfused liver associated with halothane and chloroform. In *Toxicity of anesthetics*, ed. by E. R. Fink, Williams and Wilkins Co., Baltimore, Md., pp. 176-85.

With C. T. Bombeck, C. Biava, R. E. Condon

Parameters of normal liver function in the isolated, perfused bovine liver. In *Organ perfusion and preservation*, ed. by J. C. Norman, Appleton-Century-Crofts, N.Y., pp. 573-619.

With J. Rudick, W. G. Guntheroth

Recent observations on gastric blood flow and acid secretion. In *Gastric secretion: mechanisms and control*, ed. by Shnitka, Gilbert and Harrison, Pergamon Press, Oxford-New York-London, pp. 53-69.

With J. M. Limbosch, J. H. Wyllie

The effect of vagal block on hexamethonium

- on gastric secretion in the dog. *Scand. J. Gastroent.*, 3:7-17.
- The effect of atropine on gastric secretion in the dog. *Ibid.*, 3:18-22.
- With M. Odaka, H. N. Harkins
A new preparation for gastric secretory studies in dogs. Transplantation of the autologous and homologous total stomachs. *Arch. Surg.*, 96:902-8.
- With P. D. Goldsworthy, M. D. Middleton, K. A. Kelly, C. T. Bombeck, T. Aoki
Effects of arginine, glutamate, and aspartate on ammonia utilization in the perfused bovine liver. *Arch. Biochem. Biophys.*, 128:153-62.
- Human experimentation and the surgeon. *Surgery*, 64:701-5.
- With M. Mignon, M. Levin, L. S. Semb, S. Bonfils
Effects of a gastric extract on acid and peptide secretion in the rat. *Rev. Franc. de Etudes Clin. Biol.*, 13:575-83.
- With K. Hayashi, M. J. Rheault, L. S. Semb
The effect of splenocaval shunt on gastric secretion and liver function as compared with other shunting procedures in the dog. *Surgery*, 64:1084-91.
- With E. E. Cammock, K. Hirota, T. L. Fletcher, M. Odaka, H. N. Harkins
The primate as an experimental animal suitable for measuring gastrin-stimulated gastric acid secretion. *Amer. J. Dig. Dis.*, 13:1003-11.
- With C. T. Bombeck, T. Aoki, E. A. Smuckler
The effect of halothane on liver detoxification processes. *Bull. de la Soc. Int. de Chir.*, 4:259.
- With W. Schumer
The role of corticoids in the management of shock. *Surg. Clin. N. Amer.*, 49:147-62.
- OLWIN, JOHN H., Clinical Professor
Articles
With J. L. Koppel
Reduction of elevated plasma lipid levels in atherosclerosis following EDTA therapy. *Proc. Soc. Exp. Biol. and Med.*, 128:1137-40.
- PIFARRE, ROQUE, Clinical Assistant Professor
Articles
Intramycardial pressure during systole and diastole. *Ann. Surg.*, 168:871.
- With C. A. Hufnagel
Epicardectomy and omental graft in acute myocardial infarction. *Amer. J. Surg.*, 115:589.
- Pulmonary lesions associated with oxygen therapy for acute myocardial infarction. *J. Thorac. Cardiovas. Surg.*, 56:203.
- With C. A. Hufnagel, P. W. Conrad, J. F. Gillespie, A. Ilano, T. Yokoyama
Characteristics of materials for intravascular application. *Ann. N.Y. Acad. Sci.*, 146:262.
- With S. M. Wilson, D. D. La Rosa, C. A. Hufnagel
Myocardial revascularization: arterial and venous implants. *J. Thorac. Cardiovas. Surg.*, 55:309.
- With S. M. Wilson, C. A. Hufnagel
The influence of oxygen and helium upon ventricular fibrillation. *Ibid.*, 55:535.
- With W. E. Neville, W. D. Cox, B. Leininger
Descending thoracic aorta resection with femoral vein artery oxygenation perfusion. *Ibid.*, 56:39.
- With W. E. Neville, J. U. Balis, P. J. Talso, R. A. Dieter
Postbypass histological alterations following over-infusion of non-colloids. *J. Trauma*, 8:827.
- With M. Jasuja, W. E. Neville
Myocardial revascularization from the ventricle: a physiological impossibility. *Surg. Forum*, 19:157.
- With R. A. Dieter, F. G. Hoffman, W. E. Neville
Atrial secundum septal defect and cleft mitral valve. *Ann. Thorac. Surg.*, 6:373.
- POLLITT, JORGE, Clinical Instructor
Articles
With W. Dobryszczyka, A. Carney, J. C. Kukral
Serum cholesterol, uric acid and triglyceride concentrations in patients with Buerger's disease, arteriosclerosis obliterans, venous thromboses and Raynaud's disease. *J.A.M.A.*, 204:530.
- With J. C. Kukral, A. L. Carney, E. Ebroon, R. A. Zeineh, W. Dobryszczyka
The role of the liver and surgical stress in erythropoietin metabolism. *Surg. Forum*, 19:48-51.
- PUESTOW, CHARLES B., Clinical Professor
Articles
With W. J. Gillesby
Pancreaticojejunostomy. In *Orr's operations of general surgery*, ed. by G. A. Higgins, W. B. Saunders, Philadelphia, pp. 475-78.
- With R. B. Lal, M. Pepper
Torsion of the gallbladder. *Arch. Surg.*, 97:750-52.
- RAFFENSPERGER, JOHN G., Associate Professor
Books Edited
Pediatric surgery for nurses. Little, Brown & Co., Boston, 400 pp.
- Articles
Pediatric surgical emergencies. In *Medical and surgical emergencies*, ed. by J. H. Schneewind, Year Book Med. Pubs., Chicago, pp. 162-76.
- Abdominal masses in children under one year of age. *Surgery*, 63:514-21.
- Neuroblastoma; current methods of diagnosis and treatment. *Proc. Inst. Med. Chicago*, 27:37.
- Feeding gastrostomy in premature infants. *Arch. Surg.*, 97:190-93.
- With E. L. Strohl, V. Shakunthala, R. S. Pildes, M. Cornblath
Gastrostomy in premature infants. *Ibid.*, 97:190-93.
- ROESEL, RUDOLPH W., Clinical Assistant Professor
Articles
Gastroctomy — a reevaluation. *Chicago Med.*, 71:21.
- With G. Milles, E. Strelka
Uncontrolled hemorrhage in drug-induced hypotension. *Surgery*, 64:801-4.

SADOVE, MAX S., Professor and Head,
Anesthesiology

Articles

With R. F. Albrecht

Sedatives and tranquilizers in the treatment of pain. *Med. Clin. N. Amer.*, 52:17-53.

With R. F. Albrecht, W. Schumer

Monitoring in the intensive care unit and the recovery room. *Surg. Clin. N. Amer.*, 48:9-15.

With R. F. Albrecht, E. A. Friedman

Obstetrical anesthesia and analgesia. *Conn's Year Book*, 1968, pp. 757-66.

SCHNEEWIND, JOHN H., Professor

Books

Medical and surgical emergencies (rev. ed. formerly entitled Emergency service manual), Year Book Med. Pubs., Chicago, 318 pp.

Articles

The injured hand. In *Medical and surgical emergencies*, ed. by Schneewind, Year Book Med. Pubs., Chicago, pp. 23-58.

Principles in treatment of wounds. *Ibid.*, pp. 74-77.

Preventive treatment of tetanus. *Ibid.*, pp. 191-94.

SCHULTZ, RICHARD C., Clinical Instructor,
Plastic Surgery

Articles

Extensive skin slough following septicemia and Waterhouse-Friderichsen syndrome. *Proc. Inst. Med. Chicago*, 27:37.

SCHUMER, WILLIAM, Associate Professor

Articles

Localization of the energy pathway block in shock. *Surgery*, 64:55-59.

Lactate studies of the dog in oligemic shock. *J. Surg. Res.*, 8:491-94.

With M. S. Sadove, R. Albrecht

Monitoring in the intensive care unit and recovery room. *Surg. Clin. N. Amer.*, 48:9-15.

With H. Abtahi

Sodium fusidate in surgical wound infection. *Amer. J. Surg.*, 115:527-30.

With J. C. Kukral

Metabolism of shock. *Surgery*, 63:630-36.

With R. Sperling

Shock and its effect on the cell. *J.A.M.A.*, 205:215-19.

SHULMAN, MORTON, Assistant Professor,
Anesthesiology

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Use of respirators in the surgical patient. *Surg. Clin. N. Amer.*, 48:37-45.

SLAUGHTER, DANLEY P., Clinical
Professor

Books

With H. W. Southwick, L. J. Humphrey

Surgery of the breast, Year Book Med. Pubs., Chicago, 229 pp.

Articles

Management of cancer of the tongue. In *Cancer management*, J. B. Lippincott Co., Philadelphia, pp. 303-9.

With M. P. Cunningham

A face saving procedure: marginal resection of the mandible for anterior oral cancer. *Ill. Med. J.*, 133:166-69.

Reviews

Principles of head and neck surgery, by H. R. Freund. *Surg. Gynecol. and Obstet.*, 127:127-28.

SOUTHWICK, HARRY W., Clinical Professor

Books

With D. P. Slaughter, L. J. Humphrey

Surgery of the breast, Year Book Med. Pubs., Chicago, 229 pp.

STROHL, E. LEE, Clinical Associate

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Articles

Early history of the central surgical association. *Arch. Surg.*, 97:170-74.

With J. G. Raffensperger, V. Shakunthala, R. S. Pildes, M. Cornblath

Gastrostomy in premature infants. *Ibid.*, 97:190-93.

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Physiological studies on external pancreatic secretion in man. *Bull. de la Soc. Intl. de Chir.*, 2:81-88.

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The appendicitis two step by Felix Mendelssohn. *Surg. Gynecol. and Obstet.*, 127:842-46.

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Hemodynamics and therapy of acute hemopericardium. *J. Trauma*, 7:783-92.

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Concomitant intrathoracic aneurysm and bronchial rupture due to trauma: successful repair. *Ann. Thorac. Surg.*, 44:47-54.

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January 1 through December 31, 1969

PUBLICATIONS OF THE FACULTY

and titles of doctoral dissertations

COVER:

ISLAND BEACH, by Edward Betts
Painting in acrylic polymer, 18" x 24"

Edward Betts, Professor of Art at the University of Illinois, holds a B.A. degree in History of Art from Yale University and an M.F.A. in Painting from the University of Illinois.

He has been represented in virtually every important national exhibition, including the Corcoran Biennials of Contemporary American Painting, American Painting Today at the Metropolitan Museum of Art, Whitney Museum Annual, Brooklyn Museum International Watercolor Exhibitions, Pennsylvania Academy Annuals, and the National Institute of Arts and Letters, as well as international exchange exhibitions in England, Brazil, Mexico, and Japan. He has held eighteen one-man shows in New York City, Chicago, Boston, Philadelphia, and Exeter, N.H.

Among the major awards he has received are the \$2000 First Altman Landscape Prize at the National Academy of Design in 1957, 1959, and again in 1966; Silver Medals of Honor at the American Watercolor Society exhibitions in 1953 and 1959; California Watercolor Society Purchase Award in 1957, and two medals at the Philadelphia Watercolor Club in 1954 and 1955.

Paintings by Mr. Betts are included in the permanent collections of the Fogg Museum of Art, National Academy of Design, Butler Institute of American Art, Virginia Museum of Fine Arts, Atlanta University, La Jolla Art Center, the Walter Chrysler Art Museum, and others.

The subject matter of Mr. Betts' paintings is almost exclusively the coast of Maine, where he spends his summers.

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With L. C. Lee

An information theory analysis of the accounting process. *The Accounting Review*, 44: 256-75.

Educational preparation for the CPA examination. In *Proceedings of 1968 annual meeting of National Association of State Boards of Accountancy*, American Institute of CPAs, pp. 18-23.

With Nikolai G. Chumachenko

Some distinctive aspects of accounting in the USSR. *The International Journal of Accountancy*, 4:29-40.

Interaction between financial accounting and economic development. In *International Development, 1968*, ed. by John H. Adler, Oceans Publications, Dobbs Ferry, New York, pp. 326-30.

BRIGHTON, GERALD D., Professor

Articles

Accrued expense tax reform. *The Accounting Review*, 44, 1:137-44.

Reserve for bad debts. *Taxation for Accountants*, 4, 2:112-17.

Choosing the correct treatment for subdivider utility deposit refunds. *Journal of Taxation*, 31, 3:174-77.

Bad debt deductions of officer-stockholders. *Journal of Accountancy*, 128, 3:49-55.

With R. G. Frick

Auditing and reporting requirements for local governmental units in the State of Illinois. *The Illinois CPA*, 32, 2:47-58.

DESKINS, JAMES W., Assistant Professor

Reviews

Integrated simulation, by W. Nye Smith, Elmer E. Estey and Ellsworth F. Vines. *The Accounting Review*, 44, 4:870-71.

DICKEY, ROBERT I., Professor

Articles

Some observations on "direct costing" in the United States. In *Betriebswirtschaftliche Forschung in internationaler Sicht*, Festschrift für Erich Kosiol, ed. by Heinrich Kloidt, Duncker & Humblot, Berlin, pp. 371-87.

FESS, PHILIP E., Professor

Books

With C. R. Niswonger

Accounting principles (tenth edition). South-Western Publishing Co., Inc., Cincinnati, 853 pp.

Articles

The variable (direct) costing concept in perspective. *Management Accounting*, 50, 8: 21-23.

Status of accounting education. *Management Accounting*, 50, 8:7.

O conceito em perspectiva de custeio VARIÁVEL (directo). *Jornal do Tecnico de contas e da Empresa*, 31, 1:1-3.

With J. J. Weygandt

Cash flow presentations: trends, recommendations. *Journal of Accountancy*, 128, 2:52-59.

The funds statement: trends and recommendations. *The New York CPA*, 39, 2:120-24.

More restrictive use of term "cash-flow earnings." *Journal of Accountancy*, 128, 6:25.

MAUTZ, ROBERT K., Professor

Books

With D. E. Kieso, C. A. Moyer

Intermediate principles of accounting. John Wiley & Sons, Inc., New York, 825 pp.

Articles

The problems of users and preparers in financial reporting. In *Corporate financial reporting: conflicts and challenges*, ed. by John C. Burton, American Institute of Certified Public Accountants, Inc., New York, pp. 15-24.

Financial reporting by diversified companies — a case study in accounting research. In *Betriebswirtschaftliche Forschung in internationaler Sicht*, Festschrift für Erich Kosiol, ed. by Heinrich Kloidt, Duncker & Humblot, Berlin, pp. 533-50.

With K. F. Skousen

Some problems in empirical research in accounting. *The Accounting Review*, 44, 3: 447-56.

MOYER, C. A., Professor

Books

With D. E. Kieso, R. K. Mautz

Intermediate principles of accounting. John Wiley & Sons, Inc., New York, 825 pp.

NEUMANN, FREDERICK L., Assistant Professor

Articles

The incidence and nature of consistency exceptions. *The Accounting Review*, 44, 3: 546-54.

The auditing standard of consistency. *Empirical Research in Accounting: Selected Studies 1968*, pp. 1-17.

REVSINE, LAWRENCE S., Assistant Professor

Articles

Some controversy concerning "controversial accounting changes." *The Accounting Review*, 44, 2:354-58.

General purpose reports and users' data needs. *Financial Analysts Journal*, 25, 5:37-46.

Reviews

Intermediate accounting, by Walter B. Meigs, Charles E. Johnson, Thomas F. Keller, and A. N. Mosich. *The Accounting Review*, 44, 4:863-65.

SCHOENFELD, HANNS-MARTIN W., Professor

Books

Grundlagen des rechnungswesens (revised 2nd ed.). C. E. Poeschel Verlag, Stuttgart, 147 pp.

Articles

Die anwendung statistischer methoden in der kostenrechnung. *Kostenrechnungspraxis*, December, 1968: 245-254; February, 1969: 19-24.

Comments on "international accounting in an inflationary economy." *The International Journal of Accounting Education and Research*, 4, 1:165-68.

Some special accounting problems of multinational enterprises. *Management International*, 9, 4/5:3-20.

Reviews

Wertanalyse, by G. Kourim. *VDI-Zeitschrift*, 23:1664.

DOCTORAL DISSERTATIONS

Carpenter, Charles G. (E. J. DeMaris, Adviser),

An analysis of the accounting provisions of the model business corporation act.

Davis, Paul M. (C. A. Moyer, Adviser), Critical issues in the interstate taxation of business income.

Dermer, Joseph D. (H. Schoenfeld, Adviser), Adaptive investment planning: formulation, analysis, and implications.

Dockweiler, Raymond C. (R. K. Mautz, Adviser), The practicability of reporting historical cost, adjusted historical cost, and replacement cost data in a single set of financial statements: a case study.

Johnson, Alan P. (E. J. DeMaris, Adviser), A comparative study of auditing standards in Australia, Canada, England, and the United States.

Lahey, James M. (C. A. Moyer, Adviser), Evolution of the concept of an audit in authoritative professional literature.

Needles, Belverd E., Jr. (W. E. Thomas, Adviser), Application of the single information flow concept to the hospital industry.

Stallman, James C. (R. K. Mautz, Adviser), The effects of divisional income data on investors' decisions.

Swieringa, Robert J. (R. K. Mautz, Adviser), An inquiry into the nature and feasibility of a sociometric analysis of internal control.

Trine, Joe A. (H. Schoenfeld, Adviser), An inquiry into the nature of accounting, the nature of management science, and their relationship.

Wheeler, James E. (C. A. Moyer, Adviser), An historical examination and analysis of the effects of the depreciation deduction and the investment tax credit on financial reporting.

White, Thomas D. (V. K. Zimmerman, Adviser), Accounting theories of the Securities and Exchange Commission as primarily revealed by its official decisions and reports.

Will, Hartmut J. (N. M. Bedford, Adviser), A critical analysis of the assumptions underlying selected managerial accounting models: an information systems approach.

ADMINISTRATIVE DATA PROCESSING

CHANEY, JOHN F., Professor

Articles

Organizing for administrative-systems-analysis data processing. In *Management information systems in higher education: the state of the art*, ed. by Charles B. Johnson and William G. Katzenmeyer, Duke University Press, Durham, North Carolina, pp. 42-58.

Data management and interrelated data systems for higher education. In *Management information systems: their development and application to the administration of higher education*, ed. by John Minter and Ben Lawrence, Western Interstate Commission for Higher Education, Denver, Colorado, pp. 17-28.

CZAJKOWSKI, PETER J., Management Methods Analyst

Articles

With L. J. Restall

Computation of LIFO INDEX, a statistical sampling approach. *Management Accounting*, 51, 3:43-48.

WALLHAUS, ROBERT A., Assistant Professor

Articles

Modeling for higher education administration

and management. In *Management information systems in higher education: the state of the art*, ed. by Charles B. Johnson and William G. Katzenmeyer, Duke University Press, Durham, North Carolina, pp. 125-44.

ADVERTISING

BARBAN, ARNOLD M., Associate Professor

Articles

The dilemma of "integrated" advertising. *The Journal of Business*, 42, 4:477-96.

With J. J. Belson

Riesman's social character theory and magazine preference. *Journalism Quarterly*, 46, 4:713-20.

Reviews

Sales promotion and modern merchandising, by John Luick and William Ziegler. *Journalism Quarterly*, 46, 2:379-80.

DUNN, S. WATSON, Professor

Books

Advertising: its role in modern marketing (rev. ed.). Holt, Rinehart and Winston, New York, 615 pp.

Reviews

Advertising measurement and decision making, by Patrick J. Robinson, Homer Dalbey and Yoram Wind. *Journalism Quarterly*, 46, 2:380.

STEWART, DANIEL K., Visiting Lecturer

Books

The psychology of communication. Funk and Wagnalls, New York, 201 pp.

AERONAUTICAL AND ASTRONAUTICAL ENGINEERING

BOND, CHARLES E., Associate Professor

Bulletins and Technical Reports

With D. N. Wickersheim

Supersonic electric arcs in sulfur hexafluoride. Project SQUID Report ILL-19-PU, Purdue University, Lafayette, Indiana.

The sawtooth column of the supersonic electric arc in sulfur hexafluoride. *Ibid.*, ILL-20-PU.

KARR, GERALD R., Assistant Professor

Articles

With S.-M. Yen

Aerodynamic torque on a spinning spherical satellite with application to measurement of accommodation coefficients. *Astronautica ACTA*, 14:131-42.

Bulletins and Technical Reports

A study of effects of the gas-surface interaction on spinning convex bodies with application to satellite experiments. Coordinated Science Laboratory, Report R-435, University of Illinois, Urbana, 153 pp.

KRIER, HERMAN, Assistant Professor

Articles

With M. Summerfield, E. W. Price

Entropy waves produced in oscillatory combustion of solid propellants. *American Institute of Aeronautics and Astronautics*, 7, 11:2079-86.

With M. Summerfield

Role of aluminum in suppressing instability in solid propellants rocket motors. In *Prob-*

lems of hydrodynamics and continuum mechanics, ed. by L. I. Sedov, Society for Industrial and Applied Mathematics, Philadelphia, pp. 703-17.

LIN, Y. K., Professor

Articles

With T. J. McDaniel

Dynamics of beam type periodic structures. *Journal of Engineering for Industry, American Society of Mechanical Engineers Transactions*, 91, B-4:1133-41.

With B. K. Donaldson

A brief survey of transfer matrix techniques with special reference to the analysis of aircraft panels. *Journal of Sound and Vibration*, 10, 1:103-43.

Random Processes. *Applied Mechanics Review*, 22, 8:825-31.

Bulletins and Technical Reports

With K. Doi

Spatial decay in the response of damped periodic structures. AFML-TR-69-308, Air Force Materials Laboratory, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio, 52 pp.

PRUSSING, JOHN E., Assistant Professor

Articles

Obtaining real solutions for nonlinear systems using certain transformation techniques. *International Journal of Control*, 9, 3:359-62.

Optimal four-impulse fixed-time rendezvous in the vicinity of a circular orbit. *American Institute of Aeronautics and Astronautics Journal*, 7, 5:928-35.

Illustration of the primer vector in time-fixed orbit transfer. *Ibid.*, 6:1167-68.

With A. M. Schneider, M. Timin

A manual method for space rendezvous navigation and guidance. *Journal of Spacecraft and Rockets*, 6, 9:998-1006.

SENTMAN, LEE H., Associate Professor

Articles

With K. Karamcheti

Rarefied flow past a sphere. *American Institute of Aeronautics and Astronautics Journal*, 7, 1:161-63.

SIVIER, KENNETH R., Associate Professor

Articles

A one-component, magnetic support-and-balance system. *Journal of Aircraft*, 6, 5:398-404.

STREHLOW, ROGER A., Professor

Articles

A review of shock tube chemistry. In *Progressive high temperature physics and chemistry*, vol. III, ed. by Carl A. Rouse, Pergamon Press, New York, pp. 1-148.

With R. L. Belford

Shock tube technique in chemical kinetics. In *Annual review of physical chemistry*, vol. 20, ed. by Henry Fyring, Annual Reviews, Inc., Palo Alto, California, pp. 247-72.

Shock tube studies in exothermic systems. *The Physics of Fluids*, 12, 5: Part II, pp. 196-1100.

The nature of transverse waves in detonations. *Astronautica ACTA*, 14:539-48.

With R. E. Maurer, S. Rajan

Transverse waves in detonations: I. Spacing in the hydrogen-oxygen system. *American*

Institute of Aeronautics and Astronautics, 7, 2:323-28.

With C. D. Engel

Transverse waves in detonations: II. Structure and spacing in H_2-O_2 , $C_2H_2-O_2$, $C_2H_4-O_2$ and CH_4-O_2 systems. *Ibid.*, 3:492-96.

With P. M. Rubins

Experimental and analytical study of H_2 -air reaction kinetics using a standing wave normal shock. *Ibid.*, 7:1335-44.

With A. Palm-Leis

On the propagation of turbulent flames. *Combustion and Flame*, 13, 2:111-29.

With J. R. Biller

On the strength of transverse waves in gaseous detonations. *Ibid.*, 13, 6:577-82.

YEN, SHEE-MANG, Professor

Articles

Numerical methods for solving rarefied gas flow problems. *Applied Mechanics Reviews*, 22, 6:557-64.

With H. J. Schmidt

Monte Carlo solutions of the Boltzmann equation for heat transfer problems. *Proceedings of Sixth International Symposium on Rarefied Gas Dynamics*, vol. 1, Academic Press, New York, 205-13.

With B. L. Hicks

Solutions of the non-linear Boltzmann equation for plane shock waves. *Ibid.*, pp. 313-17.

Monte Carlo solutions of non-linear Boltzmann equation for problems of heat transfer in rarefied gases. *American Society of Mechanical Engineers Preprint*, 69-WA/HT-23.

Bulletins and Technical Reports

With B. L. Hicks, B. Reilly

Numerical studies of the non-linear Boltzmann equation. Part II: Studies of new techniques of error reduction. Coordinated Science Laboratory, Report R-412, University of Illinois, Urbana.

DOCTORAL DISSERTATIONS

Crooker, Andrew J. (R. A. Strehlow, Adviser), Phenomenological investigation of low mode marginal planar detonations.

Forster, Tom J. (L. H. Sentman, Adviser), On the kinetic equations for a dilute, short range gas.

Gallington, Roger W. (C. E. Bond, Adviser), On an electric-current-carrying discontinuity driven through non-conducting gas by a Lorentz force.

Jackson, Hugh M. (H. H. Hilton, Adviser), An investigation of the linear viscoelastic response of a hypersonic flight vehicle.

Karr, Gerald R. (S. Yen, Adviser), A study of effects of the gas-surface interaction on spinning convex bodies with application to satellite experiments.

Liaugminas, Rimantas. (R. A. Strehlow, Adviser), Experimental study of mach reflection in wedge-driven detonations.

Roth, Kenneth R. (S. Yen, Adviser), Numerical studies of solutions of the Boltzmann transport equations for rarefied gas flow problems.

Schmidt, Harold J. (S. Yen, Adviser), Numerical solutions of problems of heat transfer in rarefied gases.

Vail, Curtis F. (H. H. Hilton, Adviser) Flutter of a viscoelastic two degree of freedom uniform wing in a two dimensional supersonic flow.

AGRICULTURAL ECONOMICS

BAKER, CHESTER B., Professor

Articles

Approaches and findings of farm production economists in North America. In *Proceedings, 13th international conference of agricultural economists*, Oxford University Press, London, pp. 196-204.

With J. A. Hopkin

Concepts of finance capital for a capital-using agriculture. *American Journal of Agricultural Economics*, 51, 5:1055-64.

With G. E. Rodewald, Jr.

Interim period asset valuation: a method for making investment decisions. *Agricultural Economics Research*, 21, 2:35-39.

Economics of investment in cattle feeding. *Illinois Agricultural Economics*, 9, 1:18-25.

With A. Smith

The effect of real estate debt commitments on non-real estate credit and liquidity of the firm. *Illinois Agricultural Economics*, 9, 1:1-6.

Reviews

Agriculture in the Australian economy, ed. by D. B. Williams. *American Journal of Agricultural Economics*, 51, 3:720-22.

BOCK, CARL A., Assistant Professor

Books

With F. M. Sims

1969 farm income tax training schools. Workbook. University of Illinois, College of Agriculture, Cooperative Extension Service, Urbana, 143 pp.

Articles

With F. M. Sims

Illinois farm income tax training schools. *Illinois Research*, 11, 4:14.

BROADBENT, EMER E., Professor

Articles

Cooperative livestock markets in transition. In *American cooperation 1969*, pp. 281-90.

DOVRING, FOLKE, Professor

Articles

Eighteenth century changes in European agriculture: a comment. *Agricultural History*, 43, 1:181-86.

"Dumping" e aiuti all'estero. *Mercurio*, Rome, 12, 7:57-62.

The principle of acceleration: a non-dialectical theory of progress. *Comparative Studies in Society and History*, 11, 4:413-25.

Variants and invariants in comparative agricultural systems. *American Journal of Agricultural Economics*, 51, 5:1263-73.

Reviews

Agrarian revolution and economic progress: a primer for development, by R. Schickele. *Land Economics*, 45, 1:125-28.

Pigs for the ancestors: ritual in the ecology of a New Guinea people, by R. A. Rappaport. *Comparative Studies in Society and History*, 11, 4:227-33.

Agricultural workers in the USSR, by R. Conquest. *Journal of Economic History*, 29, 4:779-80.

DUE, JEAN M., Visiting Professor

Articles

Agricultural development in the Ivory Coast and Ghana. *Journal of Modern African Studies*, 7, 4:637-60.

What happened to the Ghanaian state farms? *Illinois Agricultural Economics*, 9, 2:25-35.

FLIEGEL, FREDERICK C., Professor

Articles

Community organization and acceptance of change in rural India. *Rural Sociology*, 34, 2:167-81.

Reference patterns in *Rural Sociology* compared with major sociological journals, 1965-1966. *Ibid.*, 3:402-07.

Reviews

Agricultural change and peasant choice in a Thai village, by M. Moreman. *Ibid.*, 1: 119-20.

FOLSE, CLINTON L., Professor

Articles

With W. W. Riffe

Changing patterns of business services and population in Illinois rural villages. *Illinois Agricultural Economics*, 9, 1:26-32.

Bulletins and Technical Reports

With G. F. Summers, R. L. Hough, J. T. Scott, Jr.

Before industrialization: a rural social system base study. University of Illinois, Agricultural Experiment Station Bulletin 736, Urbana, 100 pp.

GRUEBELE, JAMES W., Assistant Professor

Articles

With R. F. Fallert, S. W. Williams

How good is your image with milk processors and supermarkets? In *Proceedings 24th annual midwestern milk marketing conference*, University of Kentucky, Lexington, pp. 44-58.

Bulletins and Technical Reports

With E. F. Koller

Changing market structure of Minnesota dairy manufacturing industry. University of Minnesota Agricultural Experiment Station Bulletin 498, 50 pp.

GUTHER, HAROLD D., Associate Professor

Books

With W. N. Thompson

Mission overseas, a handbook for U.S. families in developing countries. University of Illinois Press, Urbana, 320 pp.

Articles

Direct payments: an increasing proportion of farm income and a changing geographic distribution. *American Journal of Agricultural Economics*, 51, 4:915-20.

Institution building: training gap in economic and agricultural development. *Ibid.*, 5: 1574-77.

HALCROW, HAROLD G., Professor and Head of Department

Articles

The Illinois Agricultural Industries Forum. *Ibid.*, pp. 1222-25.

Report of the National Bureau of Economic Research Director. *Ibid.*, pp. 1680-83.

With S. C. Schmidt

Needed policies. In *A North American common market*, Iowa State University Press, Ames, pp. 385-414.

HANNAH, HAROLD W., Professor

See Veterinary Medicine.

HERBST, JOHN H., Associate Professor

Articles

Net worth projections for a period of farm business expansion. *Illinois Agricultural Economics*, 9, 2:36-47.

HERDT, ROBERT W., Assistant Professor

Articles

Profitability of high-yielding wheat and rice. *Economic and Political Weekly*, 4, 52:A197-A200.

HIERONYMUS, THOMAS A., Professor

Articles

Soybeans: end of an era? *Illinois Agricultural Economics*, 9, 2:1-18.

HILL, LOWELL D., Associate Professor

Articles

Information gaps and research problems. In *Economics of conglomerate growth*, Recorder-Sunset Press, San Francisco, pp. 125-27.

HINTON, ROYCE A., Associate Professor

Bulletins and Technical Reports

Custom rates and machine rental rates used on Illinois farms, 1968. University of Illinois, College of Agriculture, Cooperative Extension Service Circular 1003, Urbana, 6 pp.

HOPKIN, JOHN A., Professor

Articles

The dynamics of agriculture. In *Agricultural finance*, American Institute of Banking, New York, pp. 1-22.

Capital structure and credit needs. *Ibid.*, pp. 23-49.

The farmer and his need for credit services. *Report of 2nd Session, Commission on Agricultural Credit*, Chicago, pp. 71-84.

With C. B. Baker

Concepts of finance capital for a capital-using agriculture. *American Journal of Agricultural Economics*, 51, 5:1055-64.

JUDGE, GEORGE G., Professor

See Economics.

KARR, GERALD L., Assistant Professor

Articles

Co-operatives and the development of a credit system for Sierra Leone agriculture. *Economic Review*, Bank of Sierra Leone, 3:1-17. 1968.

KESLER, RICHARD P., Assistant Professor

Bulletins and Technical Reports

With A. G. Mueller, D. F. Wilken

1968, 44th annual summary of Illinois farm business records. University of Illinois, College of Agriculture, Cooperative Extension Service Circular 1006, 24 pp.

KIRTLEY, MALCOLM B., Associate Professor

Articles

Who uses cattle futures markets? *Illinois Research*, 11, 3:5.

KRAUSZ, NORMAN G. P., Professor

Books

With H. W. Hannah

Law and court decisions on agriculture (rev. ed.). Stipes Publishing Company, Champaign, Illinois, 465 pp.

Articles

Legal instruments. In *Agricultural finance*, American Institute of Banking, New York, pp. 107-29.

Bulletins and Technical Reports

Report and recommendations of Illinois Water Pollution and Water Resources Commission, May 1969, Illinois Legislative Council, Springfield, 9 pp.

With H. W. Hannah

Condemnation: the public taking of Illinois farm land (rev. ed.). University of Illinois, College of Agriculture, Cooperative Extension Service Circular 974, Urbana, 15 pp.

LEUTHOLD, RAYMOND M., Assistant Professor

Articles

An analysis of daily fluctuations in the hog economy. *American Journal of Agricultural Economics*, 51, 4:849-65.

Government payments and the distribution of income in agriculture. *Ibid.*, 5:1520-23.

MUELLER, ALLAN G., Professor

Articles

Management implications of current outlook for grain and livestock. *Journal of the American Society of Farm Managers and Rural Appraisers*, 33, 2:25-30.

With R. P. Kesler, D. F. Wilken

1968, 44th annual summary of Illinois farm business records. University of Illinois, College of Agriculture, Cooperative Extension Service Circular 1006, Urbana, 24 pp.

QUINN, JOHN A., Assistant Professor

Books Edited

Directory of Illinois planning and zoning agencies. Bureau of Community Planning and the Cooperative Extension Service, University of Illinois, Urbana, 45 pp.

REISS, FRANKLIN J., Professor

Articles

What is farmland worth? *Illinois Research*, 11, 1:3-4.

Cash rent and custom farming. *Journal of the American Society of Farm Managers and Rural Appraisers*, 33, 1:15-30.

Is \$900 per acre too much for farmland? *Ibid.*, 2:3-9.

With C. J. W. Drablos

Irrigation can pay in Illinois. *Illinois Research*, 11, 4:3-5.

With J. T. Scott, Jr.

Changing technology and lease adjustment: theory and practice. *Land Economics*, 45, 4:400-05.

RENNE, ROLAND R., Professor

Articles

Research in urban water problems. In *Proceedings of the fourth American water resources conference*, pp. 637-41.

With G. D. Fulcher

Legal research in water resources. *Land and Water Law Review*, 4, 1:145-58.

SCHMIDT, STEPHEN C., Associate Professor

Articles

COMECON coarse grain trade and prospects for the 1970's. *The American Review of East-West Trade*, 2, 10:17-29.

COMECON coarse grain trade and prospects for the 1970's. *Ibid.*, 11:19-38.

COMECON coarse grain trade and prospects for the 1970's. *Ibid.*, 12:25-34.

- Patterns of world coarse grain trade. In *Proceedings of the 1968-69 winter program series on marketing*, Manitoba Institute of Agrologists, Winnipeg, pp. 4-47.
- With L. A. Fischer
Der COMECON in der weltfuttergetreide-wirtschaft. *Agrarwirtschaft*, 18, 8:254-63.
- With H. G. Halcrow
Needed policies. In *A North American common market*, Iowa State University Press, Ames, pp. 385-414.
- SCOTT, JOHN T., JR., Associate Professor
- Articles
Maiz rico en lisina. *La Hacienda*, 64, 6:38-40.
Factor analysis regression revisited. *Econometrica*, 37, 4:739.
Should farmers build more conditioning and storage facilities for corn? *Illinois Research*, 11, 3:8-9.
- With E. O. Heady
Econometricians and the data gap: reply. *American Journal of Agricultural Economics*, 51, 1:188.
- With F. J. Reiss
Changing technology and lease adjustment: theory and practice. *Land Economics*, 45, 4:400-05.
- Bulletins and Technical Reports
With G. Summers, R. L. Hough, C. L. Folse
Before industrialization: a rural social system base study. University of Illinois, Agricultural Experiment Station Bulletin 736, Urbana, 100 pp.
- SIMERL, LAWRENCE H., Professor
- Articles
Farm business trends. *Illinois Research*, 11, 1:20.
Farm business trends. *Ibid.*, 2:20.
Farm business trends. *Ibid.*, 3:20.
Farm business trends. *Ibid.*, 4:16.
- SIMS, FAY M., Associate Professor
- Books
With C. A. Bock
1969 farm income tax training schools. Workbook. University of Illinois, College of Agriculture, Cooperative Extension Service, Urbana, 143 pp.
- Articles
With C. A. Bock
Illinois farm income tax training schools. *Illinois Research*, 11, 4:14.
- SMITH, DONALD G., Associate Professor
- Books
With L. Buley, C. L. Orbaker, H. E. Stalcup
Rural appraisal manual (3rd ed.). American Society of Farm Managers and Rural Appraisers, Stipes Publishing Company, Champaign, Illinois, 233 pp.
- SPITZE, ROBERT G. F., Professor
- Articles
U.S. farm policy — experience and directions. *Journal of the American Society of Farm Managers and Rural Appraisers*, 33, 1: 63-69.
Inadequacies in rural human resources development. *Agricultural Policy Review*, 9, 4:6-9.
- SWANSON, EARL R., Professor and Associate Head of Department
- Articles
Analysis of agricultural limestone purchases in Illinois. *Journal of Soil and Water Conservation*, 24, 4:142-43.
Price expectations and 1969 acreages of corn and soybeans in Illinois. *Illinois Research* 11, 2:3-4.
- With V. N. Asopa
Profitability of supplemental irrigation of corn. *Illinois Agricultural Economics*, 9, 1:7-9.
- With G. L. Bretthauer
Supplemental irrigation of corn: a break-even analysis. *Ibid.*, 2:19-24.
- With R. D. Dunlap
Influence of prices on production potential for beef and hogs on farms with fixed acreages. *Ibid.*, 1:10-17.
- With D. E. MacCallum
Income effects of rainfall erosion control. *Journal of Soil and Water Conservation*, 24, 2:56-59.
- THOMPSON, WILLIAM N., Professor
- Books
With H. D. Guither
Mission overseas, a handbook for U.S. families in developing countries. University of Illinois Press, Urbana, 320 pp.
- VAN ARSDALL, ROY N., Professor
- Articles
Can the family farm compete? *Illinois Business Review*, 26, 5:6-8.
- Bulletins and Technical Reports
With W. A. Elder
Economies of size of Illinois cash-grain and hog farms. University of Illinois, Agricultural Experiment Station Bulletin 733, Urbana, 67 pp.
- VAN ES, JOHANNES C., Assistant Professor
- Articles
With J. Pastore
Los patrones causales y la investigacion de la movilidad (causal models and mobility research). *Revista Mexicana de Sociologia*, 30, 4:885-99. 1968.
- Reviews
Communication and use of scientific farm information by farmers in two Taiwan agricultural villages, by Herbert F. Lionberger and H. C. Chang. *Rural Sociology*, 34, 3:430-31.
- WAGNER, MELVIN M., Associate Professor
- Bulletins and Technical Reports
With P. Charsoambut
Estimates of the Thai population, 1947-1976, and some agricultural implications. Faculty of Economics and Business Administration, Kasetsart University, Bangkok, Thailand, Kasetsart Economic Report No. 31.
- With S. Milindankura
The demand for Thai agricultural products: a nutritional approach. *Ibid.*, Report No. 30.
- WILKEN, DELMAR F., Associate Professor
- Bulletins and Technical Reports
With R. P. Kesler, A. G. Mueller
1968, 44th annual summary of Illinois farm business records. University of Illinois, College of Agriculture, Cooperative Extension Service Circular 1006, Urbana, 24 pp.
- WILLIAMS, SHELDON W., Professor
- Articles
With J. W. Gruebele, R. F. Fallert
How good is your image with milk processors and supermarkets? In *Proceedings 24th*

annual midwestern milk marketing conference, University of Kentucky, Lexington, pp. 44-58.

DOCTORAL DISSERTATIONS

- Arnold, David B. (T. A. Hieronymus, Adviser), An econometric study on the weekly behavior of the cash basis for corn at Chicago.
- Bell, Thomas M. (G. G. Judge, Advisor), Small sample properties of various simultaneous equations estimators with particular emphasis on forecasting and decision theory.
- Esmay, James L. (R. N. Van Arsdall, Adviser), The economics of selecting and financing mechanized cattle systems on Illinois farms.
- Kohout, Jose C. (G. G. Judge, Adviser), A price and allocation decision model for the beef economy in Argentina.
- Onchandra, Tongroj. (C. B. Baker, Adviser), A programming model for the planning of agricultural economy of Thailand.
- Reed, Clarence A. (V. I. West, Adviser), Changes in international trade flow patterns of the European economic community.
- Thodey, Alan R. (R. J. Mutti, Adviser), Analysis of staple food price behavior in western Nigeria.
- Tongate, Ronald E. (C. B. Baker, Adviser), A cost-reducing system for applying linear programming models to planning problems of individual farms.

AGRICULTURAL ENGINEERING

ANDREW, F. W., Associate Professor

Articles

With G. C. Shove

Cooling, chilling, dehydrating stored shelled corn. *Agricultural Engineering*, 50, 6: 360-62.

BEATY, HAROLD H., Professor

Bulletins and Technical Reports

Illinois farm electrification council, 16th annual report, 20 pp.

BUBENZER, GARY D., Instructor

Articles

With J. K. Mitchell

Better erosion control is ultimate aim of studies with artificial rainfall. *Illinois Research*, 11, 1:14-15.

BUTLER, BEVERLY J., Associate Professor

Articles

With N. B. Ahesson, W. E. Yates

Use of spray adjuvants to reduce drift. *Transactions of the American Society of Agricultural Engineers*, 12, 2:182-86.

DRABLOS, CARROLL J. W., Assistant Professor

Articles

With R. L. Bengtson, B. A. Jones, Jr.

A method for distributing drainage assessments. *Transactions of the American Society of Agricultural Engineers*, 12, 1:114-17.

With B. A. Jones, Jr.

Liaison—key to highway and agricultural drainage programs. *Proceedings of the American Society of Civil Engineers*, 95, IR3:185-97.

With F. J. Reiss

Irrigation can pay in Illinois depending on

crops, soils, and management. *Illinois Research*, 11, 4:3-5.

Bulletins and Technical Reports

With B. A. Jones, Jr.

Development of drainage assessment procedures based on physical features in Illinois. *Water Resources Center Research Report*, No. 19, University of Illinois, Urbana, 27 pp.

HALL, GLENN E., Assistant Professor

Articles

With R. D. Brazee, O. K. Hedden

Image processing problems in research on aerosols and biological rheology. *Annals of the New York Academy of Sciences*, 157, 1:285-97.

HUNT, DONNELL R., Professor

Articles

A systems approach to farm machinery selection. *Journal and Proceedings of the Institution of Agricultural Engineers*, 24, 1: 25-30.

JONES, BENJAMIN A., JR., Professor

Articles

With R. L. Bengtson, C. J. W. Drablos

A method for distributing drainage assessments. *Transactions of the American Society of Agricultural Engineers*, 12, 1: 114-17.

With C. J. W. Drablos

Liaison—key to highway and agricultural drainage programs. *Proceedings of the American Society of Civil Engineers*, 95, IR3:185-97.

With R. A. Rastogi

Simulation and hydrologic response of a drainage net of a small agricultural drainage basin. *Transactions of the American Society of Agricultural Engineers*, 12, 6: 899-908.

Bulletins and Technical Reports

With C. J. W. Drablos

Development of drainage assessment procedures based on physical features in Illinois. *Water Resources Center Research Report*, No. 19, University of Illinois, Urbana, 27 pp.

LANHAM, FRANK B., Professor and Head of Department

Articles

Developing the professional man in four years. *Conference proceedings: the undergraduate education seminar, agricultural engineering curricula for the seventies*, American Society of Agricultural Engineers publication PROC-169, pp. 110-14.

LEMBKE, WALTER D., Associate Professor

Articles

The capillary fringe above a falling water table in drainage of a lake plain soil. *Transactions of the American Society of Agricultural Engineers*, 12, 4:559-60, 563.

MITCHELL, J. KENT, Instructor

Articles

With F. L. Andersen

A computer program for meteorologic data reduction. *Transactions of Illinois State Academy of Science*, 62:15-28.

With G. D. Bubenser

Better erosion control is ultimate aim of studies with artificial rainfall. *Illinois Research*, 11, 1:14-15.

MUEHLING, ARTHUR J., Associate Professor

Bulletins and Technical Reports

Swine housing and waste management. *Agricultural Engineering* 873, University of Illinois, Urbana, 91 pp.

OLVER, ELWOOD F., Professor

Articles

Changes in concepts of education and training of agricultural engineers in the United States. *Indian Society of Agricultural Engineers*, 3, 2:2.

Fundamentals and basic techniques of good teaching. *J. Nehru Agricultural University News*, 2, 7:1.

SIEMENS, JOHN C., Associate Professor

Bulletins and Technical Reports

Calibrating and adjusting granular row applicators. *University of Illinois College of Agriculture Cooperative Extension Service Circular 1008*, 7 pp.

SHOVE, GENE C., Associate Professor

Articles

Wet grain aeration for holding and drying shelled corn. *Illinois Research*, 11, 2:12-13.

With F. W. Andrew

Cooling, chilling, dehydrating stored shelled corn. *Agricultural Engineering*, 50, 6: 360-62.

With J. L. Steele

Design charts for flow and pressure distribution in perforated air ducts. *Transactions of the American Society of Agricultural Engineers*, 12, 2:220-24.

WEBER, J. ARTHUR, Professor

Articles

With G. L. Stahl

Optimizing carburetion and ignition for a farm tractor engine. *Agricultural Engineering*, 50, 2:74-78.

YOERGER, ROGER R., Professor

Articles

With J. W. Litherland

Material movement in a rotary mower. *Agricultural Engineering*, 50, 1:26.

With R. L. Pershing

Simulation of tractors for transient response. *Transactions of the American Society of Agricultural Engineers*, 12, 2:715-19.

DOCTORAL DISSERTATIONS

Dunlap, William H. (J. A. Weber, Adviser), Compaction of an unsaturated soil under a general state of stress.

AGRICULTURAL ENTOMOLOGY

APPLEBY, JAMES E., Assistant Professor

Articles

With G. L. Nordin

Chemical control of the juniper webworm on Irish juniper. *Journal of Economic Entomology*, 62, 1:23-24.

With D. W. Webb

Trishormonya crataegifolia (Felt), a re-description of adult and immature stages. *Entomological News*, 80, 10:273-76.

ARMBRUST, EDWARD J., Assistant Professor

Articles

With H. D. Niemczyk, B. C. Pass, M. C. Wilson

Standardized procedures adopted for cooperative Ohio Valley States alfalfa weevil research. *Journal of Economic Entomology*, 62, 1:250-51.

With C. E. White, J. R. DeWitt

Lethal limits of low temperature for the alfalfa weevil in Illinois. *Ibid.*, 2:464-67.

With C. E. White, J. R. DeWitt, S. J. Roberts

Evidence of a second generation of the alfalfa weevil in southern Illinois. *Ibid.*, pp. 509-10.

Reviews

Advances in pest control research. *Entomological News*, 80, 4:110-11.

COOLEY, TIM A., Assistant Specialist

Articles

With H. H. Ross

A new Nearctic leafhopper of the genus *Flexamia* (Homoptera: Cicadellidae). *Entomological News*, 80, 9:246-48.

LABERGE, WALLACE E., Professor

Articles

A revision of the bees of the genus *Andrena* of the Western Hemisphere. Part II. *Plastandrena*, *Aporandrena*, *Charitandrena*. *Transactions of the American Entomological Society*, 95:1-47.

MEYER, RONALD H., Assistant Professor

Articles

Viscosities and early-season schedules of plant spray oils against European red mite on apple. *Journal of Economic Entomology*, 62, 6:1405-08.

PAUSCH, ROBERT D., Assistant Professor

Articles

A laboratory evaluation of baits and chemosterilants on the little house fly. *Journal of Economic Entomology*, 62, 1:25-28.

STANNARD, LEWIS J., Professor

Articles

With R. H. Kokernot, C. H. Calisher, J. Hayes

Arbovirus studies in the Ohio-Mississippi basin, 1964-67. VII. Lone star virus, a hitherto unknown agent isolated from the tick *Amblyomma americanum* (Linn.). *American Journal of Tropical Medicine and Hygiene*, 18, 5:789-95.

AGRICULTURE ADMINISTRATION

BENTLEY, ORVILLE G., Dean

Articles

With H. E. Myers

A national academy of agricultural sciences. *Agricultural Science Review*, 7, 2:20-25.

EVANS, JAMES F., Associate Professor

Books

Prairie farmer and WLS: the Burrigge D. Butler years. University of Illinois Press, Urbana, 329 pp.

Articles

Clover leaf: the good luck chain, 1899-1933. *Journalism Quarterly*, 46, 3:482-91.

AGRONOMY

ALDRICH, SAMUEL R., Professor

Articles

Fall application of nitrogen: midwest results. *Proceedings of the Illinois Fertilizer Conference*, pp. 47-51.

Bulletins and Technical Reports

With D. W. Graffis, E. L. Knake, W. R. Oschwald

Illinois Agronomy Handbook 1969. *University of Illinois College of Agriculture Cooperative Extension Service*, Circular 995, 51 pp.

ALEXANDER, DENTON E., Professor

Articles

With J. W. Dudley

Performance of advanced generations of autotetraploid maize, *Zea mays* L., synthetics. *Crop Science*, 9:613-15.

With R. J. Lambert, J. W. Dudley

Relative performance of normal and modified protein, *Opaque-2*, maize hybrids. *Ibid.*, pp. 242-43.

Corn as a producer of high quality protein. *Preprints, American Chemical Society*, 14, 4:B19-21.

Breeding problems and potentials of modified protein maize. In *New approaches to breeding for improved plant protein*, ed. by International Atomic Energy Commission, Vienna, Austria, pp. 55-65.

ALEXANDER, JOHN D., Assistant Professor

Articles

A color chart for organic matter. *Crops and Soils*, 21, 8:15-17.

With J. B. Fehrenbacher, G. W. Hudelson

Water table fluctuations in some Illinois soils. *Illinois Research*, 11, 3:16-19.

With J. B. Fehrenbacher, B. W. Ray

How soils affect root growth. *Crops and Soils*, 21, 2:14-18.

BERNARD, RICHARD L., Associate Professor

Articles

Registration of eight germplasm lines of soybeans (GP 1 to GP 8). *Crop Science*, 9:397.

With B. B. Singh

Inheritance of pubescence type in soybeans: glabrous, curly, dense, sparse, and puberulent. *Crop Science*, 9:192-97.

With D. R. Hicks, J. W. Pendleton,

T. J. Johnston

Response of soybean plant types to planting patterns. *Agronomy Journal*, 61:290-93.

BOONE, LESTER V., Agronomist

Articles

With T. R. Peck, W. M. Walker

Relationship between corn, *Zea mays* L., yield and leaf levels of ten elements. *Agronomy Journal*, 61:299-301.

With W. M. Walker, T. R. Peck,

P. E. Johnson

How much do soybean yields vary with leaf composition. *Illinois Research*, 11, 4:12.

CARMER, SAMUEL G., Assistant Professor

Articles

With A. M. Rhodes, J. W. Courter

Measurement and classification of genetic variability in horseradish. *Journal Ameri-*

can Society Horticultural Science, 94: 98-102.

With W. M. Walker, T. R. Peck

Relationship between number of independent variables and number of observations in plant analysis calibration studies. *Agronomy Journal*, 61:322-33.

Relationship between soybean yields and leaf levels of 10 elements determined with different regression models. *Ibid.*, pp. 413-16.

With W. M. Walker, R. D. Seif

Practical suggestions on pooling variances for F tests of treatment effects. *Ibid.*, pp. 334-36.

With F. B. Cady

Computerized data generation for teaching statistics. *The American Statistician*, 25, 5:33-35.

Bulletins and Technical Reports

With E. C. A. Runge, L. E. Tyler

Soil type acreages for Illinois. *University of Illinois Agricultural Experiment Station, Bulletin 735*, 76 pp.

COOPER, RICHARD L., Associate Professor

Articles

With R. H. Dreger, W. A. Brun

Effect of genotype on the photosynthetic rate of soybean, *Glycine max* L. Merr. *Crop Science*, 9:429-31.

DE WET, JOHANNES M. J., Professor

Articles

With S. Saran

A structural peculiarity observed in the sexual embryo sac of *Dichanthium intermedium*. *Canadian Journal of Botany*, 47: 1205-06.

With J. R. Harlan, W. L. Richardson

Hybridization studies with *Cynodon* from East Africa and Malagasy. *American Journal of Botany*, 56:944-50.

With J. R. Harlan

Sources of variation in *Cynodon dactylon* (L.) Pers. *Crop Science*, 9:774-78.

DILLON, JOHN E., Associate Agronomist

Bulletins and Technical Reports

With D. W. Graffis, G. L. Ross

1967-69 performance of corn hybrids in Illinois. *University of Illinois College of Agriculture Cooperative Extension Service, Circular 1010*, 28 pp.

1969 performance of commercial soybeans in Illinois. *Ibid.*, Circular 1005, 4 pp.

DUDLEY, JOHN W., Professor

Articles

With D. E. Alexander

Performance of advanced generations of autotetraploid maize, *Zea mays* L., synthetics. *Crop Science*, 9:613-15.

With D. E. Alexander, R. J. Lambert

Relative performance of normal and modified protein (opaque-2) maize hybrids. *Ibid.*, pp. 242-43.

Corn as a producer of high quality protein. *Preprints, American Chemical Society*, 14, 4B:19-20.

Breeding problems and potentials of modified protein maize. In *New approaches to breeding for improved plant protein*, ed. by International Atomic Energy Commission, Vienna, Austria, pp. 55-65.

With T. H. Busbice, C. S. Levings, III

Estimates of genetic variance in "Cherokee" alfalfa, *Medicago sativa* L., *Crop Science*, 9:228-31.

With R. L. Warner, R. H. Hageman, R. J. Lambert

Inheritance of nitrate reductase activity in *Zea mays* L. *Proceedings National Academy of Sciences*, 62:785-92.

With R. H. Moll

Interpretation and use of estimates of heritability and genetic variances in plant breeding. *Crop Science*, 9:257-62.

With R. J. Lambert

Genetic variability after 65 generations of selection in Illinois high oil, low oil, high protein, and low protein strains of *Zea mays* L. *Crop Science*, 9:179-81.

EARLEY, ERNEST B., Professor

Articles

With F. W. Slife

Effect of ethrel on growth and yield of corn. *Agronomy Journal*, 61:821-23.

FEHRENBACHER, JOSEPH B., Professor

Articles

With B. W. Ray, J. D. Alexander

How soils affect root growth. *Crops and Soils*, 21, 4:14-18.

With C. W. Guernsey, B. W. Ray, L. B. Miller

Corn yields, root volumes, and soil changes on the Morrow Plots. *Journal of Soil and Water Conservation*, 24, 3:101-04.

With J. D. Alexander, G. W. Hudelson

Water table fluctuations in some Illinois soils. *Illinois Research*, 11, 3:16-19.

Bulletins and Technical Reports

With D. L. Wallace

Soil survey, Gallatin County, Illinois. USDA, SCS, in cooperation with University of Illinois Agricultural Experiment Station, 136 pp.

GRAFFIS, DON W., Associate Professor

Articles

Going it alone. *Better Crops with Plant Food*, 53, 4:2-4.

Bulletins and Technical Reports

With J. E. Dillon, G. L. Ross

1969 Performance of commercial soybeans in Illinois. University of Illinois College of Agriculture Cooperative Extension Service, Circular 1005, 4 pp.

With G. L. Ross, J. E. Dillon

1967-1969 performance of corn hybrids in Illinois. *Ibid.*, Circular 1010, 28 pp.

With S. R. Aldrich, E. L. Knake, W. R. Oschwald

Illinois agronomy handbook 1969. *Ibid.*, Bulletin 995, 51 pp.

HADLEY, HENRY H., Professor

Articles

With L. Singh, C. M. Wilson

Genetic differences in soybean trypsin inhibitors separated by disc electrophoresis. *Crop Science*, 9:489-91.

With L. Singh, F. J. Stevenson

Micro-kjeldahl analysis of cotyledon sections from individual seeds as a screening technique in breeding soybeans for protein. *Ibid.*, pp. 205-06.

Bulletins and Technical Reports

With D. E. Weibel, H. C. Young, R. A. Hunter
Deer broomcorn. *Oklahoma State University Agricultural Experiment Station Bulletin*, B-671, 8 pp.

HAGEMAN, RICHARD H., Professor

Articles

Phosphorous metabolism in plants. *Horticulture Science*, 4, 4:311-15.

Physiological responses to nitrogen. In *Physiological aspects of crop production/agronomy*, ed. by J. Eastin, Society of America, Publishers, pp. 260-63.

With L. Klepper

The occurrence of nitrate reductase in apple leaves. *Plant Physiology*, 44:110-14.

With L. Beavers

Nitrate reduction in higher plants. *Annual Review of Plant Physiology*, 20:495-522.

With N. E. Tolbert, A. Oeser, R. K. Yamazaki, T. Kisaki

A survey of plants for peroxisome enzymes of the glycolate pathway and photorespiration. *Plant Physiology*, 44:135-47.

With W. L. Ogren, P. E. Curtis

Varietal effects in soybean photosynthesis and photorespiration. *Crop Science*, 9:323-27.

With J. W. Dudley, R. L. Warner

Inheritance of nitrate reductase in *Zea mays* L. *Proceedings of National Academy of Science*, 62:785-92.

HARLAN, JACK R., Professor

Articles

Ethiopia: a center of diversity. *Economic Botany*, 23, 4:309-14.

Evolutionary dynamics of plant domestication. *Japan Journal of Genetics*, 44, Supplement 1:337-43.

With Jean Pasquereau

Decree agriculture in Mali. *Economic Botany*, 23, 1:70-74.

With D. Zohary, A. Vardi

The wild diploid progenitors of wheat and their breeding value. *Euphytica*, 18:58-65.

With J. M. J. de Wet, W. L. Richardson

Hybridization studies with species of *Cynodon* from East Africa and Malagasy. *American Journal of Botany*, 56:944-50.

With J. M. J. de Wet

Sources of variation in *Cynodon dactylon* (L.) Pers. *Crop Science* 9:774-78.

HARPER, JAMES E., Assistant Professor

Articles

With G. M. Paulsen

Nitrogen assimilation and protein synthesis in wheat seedlings as affected by mineral nutrition. I. Micronutrients. *Plant Physiology*, 44:69-74.

Nitrogen assimilation and protein synthesis in wheat seedlings as affected by mineral nutrition. II. Micronutrients. *Ibid.*, pp. 636-40.

HILTIBRAN, ROBERT C., Associate

Professor

Bulletins and Technical Reports

Oxygen and phosphate metabolism of blue-gill liver mitochondria in the presence of 2,4-dichlorophenoxyacetic acid derivatives. *Transactions of Illinois State Academy of Science*, 62, 2:36-43.

The hydrolysis of adenosinetriphosphate by

bluegill liver mitochondria in the presence of 2,4-dichlorophenoxyacetic acid derivatives. *Ibid.*, 1:175-80.

HINESLY, THOMAS D., Assistant Professor

Articles

With B. Sosewitz

Digested sludge disposal on crop land. *Journal of Water Pollution Control Federation*, 41:822-30.

With R. L. Stickler, E. L. Knake

Soil moisture and effectiveness of preemergence herbicides. *Weed Science*, 17:257-59.

HYMOWITZ, THEODORE, Assistant Professor

Articles

The soybeans of the Kumaon Hills of India. *Economic Botany*, 23:50-54.

With F. I. Collins, S. J. Gibbons

A modified dye-binding method for estimating soybean protein. *Agronomy Journal*, 61:601-03.

With S. H. Hsu

Effects of nitrogen, phosphorus, and potassium on the sugar content of soybeans. *Illinois Research*, 11:7.

JACKOBS, JOSEPH A., Professor

Articles

With D. A. Miller, J. P. Shrivastava

Alfalfa yield components. *Crop Science*, 9:440-43.

With J. P. Shrivastava and D. A. Miller

Estimating alfalfa yields. *Agronomy Journal*, 61:649-51.

JONES, ROBERT L., Associate Professor

Articles

Determination of opal in soil by alkali dissolution analysis. *Soil Science Society of America Proceedings*, 33, 6:976-77.

With N. Ahmad

Genesis, chemical properties and mineralogy of limestone-derived soils, Barbados, West Indies. *Tropical Agriculture*, 46:1-15.

Genesis, chemical properties and mineralogy of Caribbean Grumusols. *Soil Science* 107, 3:166-74.

A Plinthaquult of the Aripo Savannahs, North Trinidad. I. Properties of the soil and chemical composition of the natural vegetation. *Soil Science Society of America Proceedings*, 33, 5:762-65.

A Plinthaquult of the Aripo Savannahs, North Trinidad. II. Mineralogy and genesis. *Ibid.*, pp. 765-68.

Occurrence of aluminous lateritic soils (bauxites) in the Bahamas and Cayman Islands. *Economic Geology*, 64:804-08.

KNAKE, ELLERY L., Professor

Articles

Application techniques for soybean herbicides. *The Soybean Farmer*, 3, 4:6-7.

Test weed killers yourself. *Crops and Soils*, 21, 5:9-10.

With H. B. Petty

The ag chemicals to recommend this year. *Farm Supplier*, 43, 2:12-16.

With R. L. Stickler, T. D. Hinesly

Soil moisture and effectiveness of preemergence herbicides. *Weed Science*, 17, 257-59.

With F. W. Slife

Effect of time and giant foxtail removal from corn and soybeans. *Ibid.*, 3:281-83.

Bulletins and Technical Reports

With M. D. McGlamery, F. W. Slife

1970 Weed Control Guide. University of Illinois College of Agriculture Cooperative Extension Service, 12 pp.

With S. R. Aldrich, D. W. Graffis, W. R. Oschwald

Illinois Agronomy Handbook 1969. *Ibid.*, Bulletin 995. 51 pp.

KOEPPE, DAVID E., Assistant Professor

Articles

With L. M. Rohrbaugh, S. H. Wender

The effect of varying U.V. intensities on the concentration of scopolin and caffeoylquinic acids in tobacco and sunflower. *Phytochemistry*, 8:889-96.

Reviews

Introduction to Research in Ultraviolet Photochemistry by John Jagger. *Newsletter of the Phytochemical Section, Botanical Society of America*, 2:3-4.

KURTZ, LESTER T., Professor

Articles

With K. N. Paulson

Locus of urease activity in soil. *Soil Science Society of America Proceedings*, 33:389-901.

Evaluation of urea-hydrocarbon complexes as "slow release" nitrogen carriers. *Ibid.*, p. 973.

LAMBERT, ROBERT J., Assistant Professor

Articles

With D. E. Alexander, J. W. Dudley

Relative performance of normal and modified protein, opaque-2, maize hybrids. *Crop Science*, 9:242-43.

Breeding problems and potentials of modified protein maize. In *New approaches to breeding for improved plant protein*, International Atomic Energy Agency, Vienna, pp. 55-65.

Corn as a producer of high quality protein. *American Chemical Society Preprints*, 14:19-21.

With J. W. Dudley

Genetic variability after 65 generations of selection in Illinois high oil, low oil, high protein, and low protein strains of *Zea mays* L. *Ibid.*, pp. 179-81.

With R. L. Warner, R. H. Hageman, J. W. Dudley

Inheritance of nitrate reductase activity in *Zea mays* L. *Proceedings of the National Academy of Sciences*, 62:785-92.

LENG, EARL R., Professor

Articles

With E. G. Siemer, O. T. Bonnett

Timing and correlation of major developmental events in maize. *Agronomy Journal*, 61:14-17.

MCGLAMERY, MARSHAL D., Assistant Professor

Articles

Summary of herbicide residues in plant and soils. *North Central Weed Control Conference Proceedings*, 26:1.

Weed control in corn in Illinois. *Ibid.*, pp. 99-103.

Weed control in soybeans. *Ibid.*, pp. 138-39.

MELSTED, SIGURD W., Professor

Articles

With H. L. Motto, T. R. Peck

Critical plant nutrient composition values

useful in interpreting plant analysis data. *Agronomy Journal*, 61:17-20.

MILLER, DARRELL A., Associate Professor

Articles

- With J. P. Shrivastava, J. A. Jackobs
Alfalfa yield components in solid seedings. *Crop Science*, 9:440-43.
Estimating alfalfa yields. *Agronomy Journal*, 61:649-51.

MILLER, RAYMOND J., Professor

Articles

- With A. R. Overman, J. H. Peverly
The absence of threshold gradients in clay-water systems. *Soil Science Society of America Proceedings*, 33:183-87.
With J. B. Hanson
Active swelling in plant mitochondria. *Plant and Cell Physiology*, 10:491-94.
With D. S. Brown
The effect of exchangeable aluminum on conductance and diffusion activation energies in montmorillonite. *Soil Science Society of America Proceedings*, 33:373-78.
With G. H. Lorimer
The osmotic behavior of corn mitochondria. *Plant Physiology*, 44:839-44.

MILLINGTON, RICHARD J., Associate Professor

Articles

- With A. R. Aston, D. B. Peters
Radiation exchange in controlling leaf temperature. *Agronomy Journal*, 61, 5:797-800.
With D. B. Peters
Exchange (mass transfer) coefficients in crop canopies. *Ibid.*, pp. 815-19.

MOLINA, JEAN-ALEX E., Assistant Professor

Reviews

- The ecology of soil bacteria, an international symposium, ed. by T. G. R. Gray and D. Parkinson. *BioScience*, 19:184.

ODELL, RUSSELL T., Professor

Bulletins and Technical Reports

- With C. E. Downey
Soil survey of Montgomery County, Illinois. *United States Department of Agriculture and Illinois Agricultural Experiment Station Soil Report 86*, 94 pp.

OGREN, WILLIAM L., Assistant Professor

Articles

- With P. E. Curtis, R. H. Hageman
Varietal effects in soybean photosynthesis and photorespiration. *Crop Science*, 9, 3:323-27.
With J. M. Widholm
Photorespiratory-induced senescence of plants under conditions of low carbon dioxide. *Proceedings of the National Academy of Sciences*, 63, 3:668-75.

OSCHWALD, WILLIAM R., Associate Professor

Articles

- Soil and plant composition survey—contribution to P₁ test interpretation. *1969 Illinois Fertilizer Conference Proceedings*, pp. 8-9.
Conventional plowing, chisel plowing, or zero-tillage for corn? *1969 Illinois Fertilizer Conference Proceedings*, pp. 29-32.

With W. W. Moschler, D. I. Myhre, D. M. Van Doren, Jr.

No-tillage round table. *Crops and Soils*, 22, 3:14-19.

Bulletins and Technical Reports

- With S. R. Aldrich, D. W. Graffis, E. L. Knake
Illinois agronomy handbook 1969. *University of Illinois College of Agriculture Cooperative Extension Service*, Circular 995, 51 pp.

PECK, THEODORE R., Associate Professor

Articles

- Soil test summaries. *1969 Illinois Fertilizer Conference Proceedings*, pp. 10-13.
With S. W. Melsted, H. L. Motto
Critical plant nutrient composition values useful in interpreting plant analysis data. *Agronomy Journal*, 61:17-20.
With W. M. Walker, L. V. Boone
Relationship between corn (*Zea mays* L.) yield and leaf levels of ten elements. *Ibid.*, pp. 299-301.
With W. M. Walker, S. G. Carmer
Relation between number of independent variables and number of observations in plant analysis calibration studies. *Ibid.*, pp. 322-23.
Relationship between soybean yield and leaf levels of 10 elements determined with different regression models. *Agronomy Journal*, 61:413-16.
With W. M. Walker, S. R. Aldrich, W. R. Oschwald
Illinois soils remain high in nutrients according to 1968 plant and soil analysis. *Illinois Research*, 11:8-9.
With J. W. Courtner, A. M. Rhodes, W. M. Walker
Mineral composition of horseradish, *Armoracia rusticana*. *Ibid.*, pp. 526-27.
With W. M. Walker, P. E. Johnson, L. V. Boone
How much do soybean yields vary with leaf composition. *Illinois Research*, 11, 4:12.

PENDLETON, JOHNNY W., Professor

Articles

- With J. J. Hammond
Relative photosynthetic potential for grain yield of various leaf canopy levels of corn. *Agronomy Journal*, 61:911-13.
With D. B. Egl
Potential yield of corn as affected by planting date. *Ibid.*, pp. 70-71.
With D. R. Hicks, R. L. Bernard, T. J. Johnston
Response of soybean plant types to planting patterns. *Ibid.*, pp. 290-93.
With D. R. Hicks
Effect of floral bud removal on performance of soybeans. *Crop Science*, 9:435-37.

PETERS, DOYLE B., Professor

Articles

- With A. R. Aston, R. J. Millington
Radiation exchange in controlling leaf temperature. *Agronomy Journal*, 61:797-800.
With T. J. Johnston, J. W. Pendleton, D. R. Hicks
Influence of supplemental light on apparent photosynthesis, yield and yield components of soybeans, *Glycine max* L. *Crop Science*, 9:577-81.
With R. J. Millington
Exchange (mass transfer) coefficients in crop canopies. *Agronomy Journal*, 61:815-19.

With A. Khite

Water uptake and root growth. In *Root Growth*, University of Nottingham, England, pp. 105-33.

Reviews

Plant-water relationships, by R. O. Slatyer. *Soil Science Society of America Proceedings*, 32, 6:iv.

RAY, BURTON W., Assistant Professor**Articles**

With J. B. Fehrenbacher, J. D. Alexander

How soils affect root growth. *Crops and Soils*, 21:14-18.

With C. W. Guernsey, J. B. Fehrenbacher, L. B. Miller

Corn yields, root volumes, and soil changes on the Morrow Plots. *Journal of Soil and Water Conservation*, 24, 3:101-04.

RINNE, ROBERT W., Associate Professor**Articles**

Biosynthesis of fatty acids by a soluble extract from developing soybean cotyledons. *Plant Physiology*, 44:89-94.

With C. A. Adams

Influence of age and sulfur metabolism on ATP sulfurylase activity in the soybean and a survey of selected species. *Plant Physiology*, 44:1241-46.

ROSS, GERALD L., Assistant Agronomist**Bulletins and Technical Reports**

With J. E. Dillon, D. W. Graffis

1967-69 performance of corn hybrids in Illinois. *University of Illinois College of Agriculture Cooperative Extension Service*, Circular 1010, 28 pp.

1969 performance of commercial soybeans in Illinois. *Ibid.*, Circular 1005, 4 pp.

RUNGE, EDWARD C. A., Associate Professor**Articles**

With D. B. Davies

Comparison of rooting in soil parent materials using undisturbed soil cores. *Agronomy Journal*, 61:518-21.

Bulletins and Technical Reports

With L. E. Tyler, S. G. Carmer

Soil type acreages for Illinois. *University of Illinois Agricultural Experiment Station*, Bulletin 735, 75 pp.

SCOTT, WALTER O., Professor**Articles**

Plant your 1969 corn crop for greater profit. *Agricultural Nitrogen News*, 19, 2:16-18.

Plant variety protection and certification. *Seed World*, 105, 9:14-15.

Variety protection legislation. *Seed Trade News*, 90, 48:4-5.

SEIF, ROBERT D., Professor**Articles**

With S. G. Carmer, W. M. Walker

Practical suggestions on pooling variances for F tests of treatment effects. *Agronomy Journal*, 61:334-36.

SLIFE, FRED W., Professor**Articles**

With R. C. Fites, J. B. Hanson

Alteration of messenger RNA and ribosome synthesis in soybean hypocotyl by 2,4-Dichlorophenoxyacetic acid. *Botanical Gazette*, 130, 2:118-26.

With E. B. Earley

Effect of etrel on growth and yield of corn. *Agronomy Journal*, 61:821-23.

With J. B. Hanson

Role of RNA metabolism in the action of auxin-herbicides. *Research Review*, 25: 59-67.

With L. Thompson, Jr.

Foliar and root absorption of atrazine applied postemergence to giant foxtail. *Weed Science*, 17, 2:251-56.

With E. L. Knake

Effect of time and giant foxtail removal from corn and soybeans. *Ibid.*, 3:281-83.

With L. M. Wax, L. A. Knuth

Response of soybeans to 2,4-D, Dicamba, and Picloram. *Ibid.*, pp. 388-93.

STEVENSON, FRANK J., Professor**Articles**

Pedohumus: accumulation and diagenesis during the Quaternary. *Soil Science*, 107: 470-79.

Soil: nitrogen origin and distribution. In *McGraw-Hill yearbook of science and technology*, ed. by D. I. Eggenberger, McGraw-Hill, New York, pp. 313-15.

With J. H. A. Butler

Chemistry of humic acids and related pigments. In *Organic geochemistry: methods and results*, ed. by G. Eglinton and M. T. J. Murphy, Springer-Verlag, New York, pp. 534-57.

With C. N. Cheng

Amino acid levels in the Argentine basin sediments: correlation with Quaternary climatic changes. *Journal Sedimentary Petrology*, 39:345-49.

With L. Singh, H. H. Hadley

Micro-kjeldahl analysis of cotyledon sections from individual seeds as a screening technique in breeding soybeans for protein. *Crop Science*, 9:205-06.

Reviews

Geochemistry of organic substances, by S. M. Manskaya and T. V. Drozdova. *Geochimica et Cosmochimica Acta*, 33:1314-15.

STOLLER, EDWARD W., Assistant Professor**Articles**

The kinetics of amiben absorption and metabolism as related to species sensitivity. *Plant Physiology*, 44:854-60.

TYNER, EDWARD H., Professor**Articles**

With J. K. Syers, J. D. H. Williams, T. W. Walker

Primary and secondary origin of "nonextractable" soil inorganic phosphorus. *Soil Science Society of America Proceedings*, 33: 635-36.

WALKER, WILLIAM M., Associate Professor**Articles**

With T. R. Peck, S. R. Aldrich, W. R. Oschwald

Illinois soils remain high in nutrients according to 1968 plant and soil report. *Illinois Research*, 11, 2:8-9.

With T. R. Peck, P. E. Johnson, L. V. Boone

How much do soybean yields vary with leaf composition? *Ibid.*, 4:12.

Results of the plant analysis survey of corn and soybeans. *Proceedings Illinois Fertilizer Conference*, pp. 14-15.

With S. G. Carmer, R. D. Seif

Practical suggestions on pooling variances for F tests of treatment effects. *Agronomy Journal*, 61:334-36.

With S. G. Carmer, T. R. Peck

Relationship between number of independent variables and number of observations in plant analysis calibration studies. *Ibid.*, pp. 322-23.

With T. R. Peck, J. W. Courter, A. M. Rhodes

Mineral composition of horseradish, *Amaracia rusticana*. *Ibid.*, pp. 526-28.

With T. R. Peck, S. G. Carmer

Relationship between soybean yields and leaf levels of 10 elements determined with different regression models. *Ibid.*, pp. 413-16.

With T. R. Peck, L. V. Boone

Relationship between corn, *Zea mays* L., yield and leaf levels of 10 elements. *Ibid.*, pp. 299-301.

With W. L. Parks

Effect of soil potassium, potassium fertilizer, and fertilizer placement upon corn yields. *Soil Science Society of America Proceedings*, 33:427-29.

Effect of soil potassium, potassium fertilizer and method of placement upon lodging in corn, *Zea mays* L. *Ibid.*, pp. 909-12.

WAX, LOYD M., Assistant Professor

Articles

With L. A. Knuth, F. W. Slife

Response of soybeans to 2,4-D, dicamba, and picloram. *Weed Science*, 17:388-93.

WEBER, EVELYN J., Assistant Professor

Articles

Lipids of maturing grain of corn, *Zea mays* L.: I. changes in lipid classes and fatty acid composition. *Journal of the American Oil Chemists' Society*, 46:485-88.

WELCH, LOUIS F., Professor

Articles

Effect of N, P, and K on the percent and yield of oil in corn. *Agronomy Journal*, 61: 890-91.

With T. D. Hughes, G. W. Colliver

A method for marking the point of anhydrous ammonia release. *Ibid.*, p. 485.

With G. W. Colliver

Care is needed to avoid ammonia injury to corn. *Illinois Research*, 11:8-9.

Bulletins and Technical Reports

With C. L. Parks, H. D. Morris, G. R. Craddock, G. A. Hillsman, C. B. Elkins, Jr.

Corn yield as affected by soil slope, fertilization, year from sod and rainfall. *South Carolina Agricultural Experiment Station Technical Bulletin*, 1032:1-16.

WIDHOLM, JACK M., Assistant Professor

Articles

With W. L. Ogren

Photorespiratory-induced senescence of plants under conditions of low carbon dioxide. *Proceedings of the National Academy of Science*, 63:668-75.

WILSON, CURTIS M., Associate Professor

Articles

With L. Singh, H. H. Hadley

Genetic differences in soybean trypsin inhibitors separated by disc electrophoresis. *Crop Science*, 9:489-91.

A rapid staining technique for detection of RNase after polyacrylamide gel electrophoresis. *Analytical Biochemistry*, 31:506-11.

DOCTORAL DISSERTATIONS

Adams, Clifford A. (R. W. Rinne, Adviser), A biochemical and physiological study of ATP sulfurylase in higher plants.

Aston, Alan R. (D. B. Peters, Adviser), Radiation exchange in controlling leaf temperature.

Chambliss, Carrol G. (C. N. Hittle, Adviser), Selecting an alfalfa plant for phosphorus analysis.

Cheng, Chao-nang. (F. J. Stevenson, Adviser), Determination of amino acid-N in deep-sea sediments and the relationship between amino acid levels in three cores from the Argentine basin and past climatic changes.

Colliver, Gary W. (L. F. Welch, Adviser), Toxicity of preplant anhydrous ammonia to germination and early growth of corn.

Deshpande, Sharadchandra B. (J. B. Fehrenbacher, Adviser), Genesis and classification of six mollusls in the Tarai region near Pantnagar, Uttar Pradesh, India.

Dexter, Alan G. (F. W. Slife, Adviser), Fate of 2,4-dichlorophenoxyacetic acid in several plant species.

Dubey, Shambhu N. (C. M. Brown, Adviser), Inheritance and interrelationships of certain characters in wheat and oats.

Edmondson, John B. (F. W. Slife, Adviser), Effects of 2-chloro-2',6'-diethyl-N-(methoxymethyl) acetanilide on cucumber seedling growth.

Egli, Dennis B. (J. W. Pendleton, Adviser), Photosynthetic rate of three soybean (*Glycine max* (L.) Merrill) communities as related to carbon dioxide levels and solar radiation.

Elsner, John E. (R. H. Hageman, Adviser), Studies on the induction of nitrate reductase in scutella and leaf tissue of corn (*Zea mays* L.) seedlings.

Frazer, Charles J. (J. B. Fehrenbacher, Adviser), Distribution of loess from a source.

Goh, Kuan M. (F. J. Stevenson, Adviser), Infrared spectra of soil humic and fulvic acids and their derivatives.

Hughes, Tom D. (L. F. Welch, Adviser), Nitrification inhibitors, leaching, and time of nitrogen application for corn.

Klepper, Lowell A. (R. H. Hageman, Adviser), Generation of reduced nicotinamide adenine dinucleotide for nitrate reduction in green leaves.

Liu, Ming-chin. (H. H. Hadley, Adviser), Seed yield, seed oil, protein content and nitrate reductase activity in related nodulating and non-nodulating soybeans (*Glycine max* (L.) Merrill).

Pandya, Bindeshwari P. (E. R. Leng, Adviser), Timing patterns of developmental events in maize (*Zea mays* L.) in northern India.

Reicosky, Donald C. (D. B. Peters, Adviser), The effect of root distribution on water and nutrient uptake by soybean plants grown in soil columns.

Rogers, James S. (A. Klute, Adviser), The hydraulic conductivity-water content relationship during non-steady flow in a vertical sand column.

Singh, Chhidda. (E. R. Leng, Adviser), Changes in the components of yield in different morphological types of maize associated with plant density in northern India.

Singh, Laxman. (H. H. Hadley, Adviser), Maternal and cytoplasmic effects on protein content of soybean seed.

Westerman, Robert L. (L. T. Kurtz, Adviser),
Recovery of ¹⁵N-labeled fertilizers in field
studies.

ANIMAL SCIENCE

ALBERT, WACO W., Assistant Professor
Bulletins and Technical Reports

Good performance from beef cows confined to
drylot the year round. *Illinois Research*, 11,
1:8-9.

AREHART, LAURENCE A., Assistant Animal
Scientist

Articles

With F. C. Hinds, J. M. Lewis,
M. E. Mansfield

Space allowances for lambs on slotted floors.
Journal of Animal Science, 29, 4:638-41.

BAKER, DAVID H., Assistant Professor

Articles

With M. Sugahara, H. M. Scott

Effect of different patterns of excess amino
acids on performance of chicks fed amino
acid-deficient diets. *Journal of Nutrition*,
97, 1:29-32.

With M. Sugahara, A. H. Jensen,
B. G. Harmon

The effect of ambient temperature and dietary
amino acids on carcass fat deposition in
rats. *Ibid.*, 98, 3:344-50.

Effect of excess levels of dietary crude pro-
tein on carcass development in swine. *Journal
of Animal Science*, 29, 4:598-601.

With A. H. Jensen, B. G. Harmon,
D. E. Becker

Nutrient composition of corn and soybean
meal. *Ibid.*, 28, 4:459-64.

Nicotinic acid-tryptophan relationship in the
nutrition of the weanling pig. *Ibid.*, 6:
848-52.

Comparison of opaque-2 corn, milo and wheat
in diets for finishing swine. *Ibid.*, 29,
1:16-19.

With B. G. Harmon, D. E. Hoge, A. H. Jensen
Efficacy of ferrous carbonate as a hematinic
for young swine. *Ibid.*, 5:706-10.

With A. H. Jensen, B. G. Harmon,
D. E. Becker, H. W. Norton

Lysine imbalance of corn protein in the grow-
ing pig. *Ibid.*, 28, 1:23-26.

With W. W. Clausung, B. G. Harmon,
A. H. Jensen, D. E. Becker

Replacement value of cystine for methionine
for the young pig. *Ibid.*, 29, 4:581-84.

With D. E. Becker, H. W. Norton, C. E. Sasse,
A. H. Jensen, B. G. Harmon

Reproductive performance and progeny de-
velopment of swine as influenced by feed
intake during pregnancy. *Journal of Nutri-
tion*, 97, 4:489-95.

BECKER, DONALD E., Professor and
Head of Department

Articles

With D. H. Baker, A. H. Jensen,
B. G. Harmon

Nutrient composition of corn and soybean
meal. *Journal of Animal Science*, 28,
4:459-64.

Nicotinic acid-tryptophan relationship in the
nutrition of the weanling pig. *Ibid.*, 6:
848-52.

Comparison of opaque-2 corn, milo and wheat
in diets for finishing swine. *Ibid.*, 29, 1:
16-19.

With B. G. Harmon, A. H. Jensen,
D. E. Kuhlman

Response of growing-finishing swine to dif-
ferent housing environments during winter
seasons. *Ibid.*, 3:451-56.

With D. H. Baker, A. H. Jensen,
B. G. Harmon, H. W. Norton

Lysine imbalance of corn protein in the
growing pig. *Ibid.*, 28, 1:23-26.

With D. H. Baker, W. W. Clausung,
B. G. Harmon, A. H. Jensen

Replacement value of cystine for methionine
for the young pig. *Ibid.*, 29, 4:581-84.

With B. G. Harmon, G. M. Miller,
A. H. Jensen, H. W. Norton

Effect of protein intake on nitrogen retention
by swine during late pregnancy. *Ibid.*, 28,
2:204-07.

With D. H. Baker, H. W. Norton, C. E. Sasse,
A. H. Jensen, B. G. Harmon

Reproductive performance and progeny de-
velopment of swine as influenced by feed in-
take during pregnancy. *Journal of Nutri-
tion*, 97, 4:489-95.

BRAY, DONALD J., Professor

Articles

Hours of light affect pullets' response to low-
protein diets. *Illinois Research*, 11, 4:8-9.

Studies with corn-soya laying diets. 8. Re-
quirements for limiting amino acids—the
basal diet and the requirements for iso-
leucine, lysine and tryptophan. *Poultry
Science*, 48, 2:674-84.

COOK, BRIAN, Assistant Professor

Articles

With C. C. Kaltenbach, G. D. Niswender,
H. W. Norton, A. V. Nalbandov

Short-term ovarian responses to some pituitary
hormones infused *in vivo* in pigs and
sheep. *Journal of Animal Science*, 29,
5:711-18.

DOANE, BENNIE B., Associate Animal
Scientist

Articles

With S. P. Arora, E. E. Hatfield,
T. G. Lohman, U. S. Garrigus

Zinc-65 uptake by rumen tissue. *Journal of
Nutrition*, 97, 1:25-28.

With P. J. Dziuk, T. J. Reimers

Reproduction in ewes treated repeatedly to
control oestrus. VI International Congress
on Reproduction and Artificial Insemina-
tion, 2:1429-30.

DZIUK, PHILIP J., Professor

Articles

Endocrine and embryological factors as re-
lated to early embryonic loss in swine.
*Proceedings of Symposium on Factors Pro-
ducing Embryological, Fetal Abnormalities,
Death and Abortion in Swine, ARS*, 91-93,
pp. 24-29.

With D. S. Dhindsa

Induction of heat, ovulation and fertility in
gilts with delayed puberty. *Journal of
Animal Science*, 29, 1:39-40.

With J. F. Roche

A technique for pinealectomy of the ewe.
American Journal of Veterinary Research,
30, 11:2031-35.

With B. G. Harmon

Succession of fetuses at parturition in the pig.
Ibid., 3:419-21.

With O. C. Miller, J. F. Roche

Estimation of the optimum interval between insemination and ovulation in the rabbit by double insemination. *Journal of Reproduction and Fertility*, 19, 3:545-46.

With B. B. Doane, T. J. Reimers

Reproduction in ewes treated repeatedly to control oestrus. *VI International Congress on Reproduction and Artificial Insemination*, 2:1429-30.

FORBES, RICHARD M., Professor

Articles

With Mary Jacob

Effects of magnesium deficiency, dietary sulfate and thyroxine treatment on kidney calcification and tissue protein-bound carbohydrate in the rat. *Journal of Nutrition*, 99, 1:51-57.

A study of the relative potency of L- and D-thyroxine in preventing kidney calcification associated with magnesium deficiency. *Ibid.*, 2:152-56.

FOSTER, C. DAVID O., Assistant Professor

Articles

With A. B. Pardee

Transport of amino acids by confluent and nonconfluent 3T3 and polyoma virus-transformed 3T3 cells growing on glass cover slips. *Journal of Biological Chemistry*, 244, 10:2675-81.

GARRIGUS, UPSON S., Professor

Articles

With J. H. Sokolowski, E. E. Hatfield

Effects of inorganic sulfur on potassium nitrate utilization by lambs. *Journal of Animal Science*, 28, 3:391-96.

With I. M. Brookes, M. L. Hershberger, R. W. Henderson, E. E. Hatfield

Opaque-2, higher-oil higher-protein and regular corn in diets for growing lambs. *Ibid.*, 1:103-06.

With R. J. Condon, I. M. Brookes, E. E. Hatfield, F. C. Hinds

Chemical characteristics of *in vitro* corn silages. *Ibid.*, 29, 5:769-72.

With S. P. Arora, E. E. Hatfield, T. G. Lohman, B. B. Doane

Zinc-65 uptake by rumen tissue. *Journal of Nutrition*, 97, 1:25-28.

GRABER, JEAN W., Assistant Professor

Articles

With A. V. Nalbandov

Neural control of the anterior and the posterior pituitary gland in birds. In *The hypothalamus*, ed. by Haymaker, Anderson and Nauta, Charles C. Thomas, Springfield, Illinois, pp. 311-25.

Development of the infundibulum of jungle fowl during incubation indicating neurohaemal role for this area. *Journal of Comparative Neurology*, 135, 1:85-92.

HARMON, BUD G., Associate Professor

Articles

Anemia prevention in young pigs. *Illinois Research*, 11, 2:10-11.

With P. J. Dziuk

Succession of fetuses at parturition in the pig. *American Journal of Veterinary Research*, 30, 3:419-21.

With D. E. Becker, A. H. Jensen, D. H. Baker

Nutrient composition of corn and soybean

meal. *Journal of Animal Science*, 28, 4:459-64.

Nicotinic acid-tryptophan relationship in the nutrition of the weanling pig. *Ibid.*, 6: 848-52.

Comparison of opaque-2 corn, milo and wheat in diets for finishing swine. *Ibid.*, 29, 1:16-19.

With M. Sugahara, D. H. Baker, A. H. Jensen

Effect of excess levels of dietary crude protein on carcass development in swine. *Ibid.*, 4:598-601.

The effect of ambient temperature and dietary amino acids on carcass fat deposition in rats. *Journal of Nutrition*, 98, 3:344-50.

With A. H. Jensen, D. H. Baker, D. E. Hoge

Efficacy of ferrous carbonate as a hematonic for young swine. *Journal of Animal Science*, 29, 5:706-10.

With A. H. Jensen, D. E. Kuhlman, D. E. Becker

Response of growing-finishing swine to different housing environments during winter seasons. *Ibid.*, 3:451-56.

With G. M. Miller, D. E. Becker, A. H. Jensen, H. W. Norton

Effect of protein intake on nitrogen retention by swine during late pregnancy. *Ibid.*, 28, 2:204-07.

With D. H. Baker, W. W. Clausing, A. H. Jensen, D. E. Becker

Replacement value of cystine for methionine for the young pig. *Ibid.*, 29, 4:581-84.

With D. H. Baker, D. E. Becker, H. W. Norton, A. H. Jensen

Lysine imbalance of corn protein in the growing pig. *Ibid.*, 28, 1:23-26.

With D. H. Baker, D. E. Becker, H. W. Norton, C. E. Sasse, A. H. Jensen

Reproductive performance and progeny development in swine as influenced by feed intake during pregnancy. *Journal of Nutrition*, 97, 4:489-95.

HATFIELD, EVERETT E., Professor

Articles

With J. H. Sokolowski, U. S. Garrigus

Effects of inorganic sulfur on potassium nitrate utilization by lambs. *Journal of Animal Science*, 28, 3:391-96.

With I. M. Brookes, M. L. Hershberger, R. W. Henderson, U. S. Garrigus

Opaque-2, higher-oil, higher-protein and regular corn in diets for growing lambs. *Ibid.*, 1:103-06.

With R. J. Condon, I. M. Brookes, U. S. Garrigus, F. C. Hinds

Chemical characteristics of *in vitro* corn silages. *Ibid.*, 29, 5:769-72.

With S. P. Arora, U. S. Garrigus, T. G. Lohman, B. B. Doane

Zinc-65 uptake by rumen tissue. *Journal of Nutrition*, 97, 1:25-28.

HINDS, FRANK C., Assistant Professor

Articles

With Rosemary Almendinger

Apparent carotenoid increases in the digestive tract of beef cattle. *Ibid.*, pp. 13-18.

Increases of extractable beta-carotene in haylage during *in vitro* digestion. *Journal of Dairy Science*, 52, 12:2044-46.

With L. A. Arehart, Jr., J. M. Lewis, M. E. Mansfield

Space allowances for lambs on slotted floors. *Journal of Animal Science*, 29, 4:638-41.

With R. J. Condon, I. M. Brookes,

U. S. Garrigus, E. E. Hatfield

Chemical characteristics of *in vitro* corn silages. *Ibid.*, 5:769-72.

JENSEN, ALDON H., Professor

Articles

With D. H. Baker, D. E. Becker

B. G. Harmon

Comparison of opaque-2 corn, milo and wheat in diets for finishing swine. *Ibid.*, 1:16-19.

Nicotinic acid-tryptophan relationship in the nutrition of the weanling pig. *Ibid.*, 28, 6:848-52.

Nutrient composition of corn and soybean meal. *Ibid.*, 4:459-64.

With M. Sugahara, D. H. Baker,

B. G. Harmon

The effect of ambient temperature and dietary amino acids on carcass fat deposition in rats. *Journal of Nutrition*, 98, 3:344-50.

Effect of excess levels of dietary crude protein on carcass development in swine. *Journal of Animal Science*, 29, 4:598-601.

With B. G. Harmon, D. E. Hoge,

D. H. Baker

Efficacy of ferrous carbonate as a hematinic for young swine. *Ibid.*, 5:706-10.

With D. E. Kuhlman, D. E. Becker,

B. G. Harmon

Response of growing-finishing swine to different housing environments during winter seasons. *Ibid.*, 3:451-56.

With D. H. Baker, D. E. Becker,

H. W. Norton, B. G. Harmon

Lysine imbalance of corn protein in the growing pig. *Ibid.*, 28, 1:23-26.

With D. H. Baker, W. W. Clausing,

B. G. Harmon, D. E. Becker

Replacement value of cystine for methionine for the young pig. *Ibid.*, 29, 4:581-84.

With D. L. Day, D. D. Jones,

J. C. Converse, E. L. Hanson

Oxidation ditch treatment of swine wastes, summary report. *Proceedings of American Society of Agricultural Engineers*, Chicago.

With D. E. Becker, H. W. Norton, C. E. Sasse,

B. G. Harmon, D. H. Baker

Reproductive performance and progeny development of swine as influenced by feed intake during pregnancy. *Journal of Nutrition*, 97, 4:489-95.

With G. M. Miller, D. E. Becker,

B. G. Harmon, H. W. Norton

Effect of protein intake on nitrogen retention by swine during late pregnancy. *Journal of Animal Science*, 28, 2:204-07.

JOHNSON, HUGH S., Associate Professor

Bulletins and Technical Reports

With S. F. Ridlen, F. L. Haegele

4-H poultry manual—unit 2. University of Illinois College of Agriculture Cooperative Extension Service, Urbana-Champaign, BP 64, 21 pp.

LEVEILLE, GILBERT A., Professor

Articles

Enzymatic mechanisms and their regulation in adipose tissue. In *Proceedings of the meat industry research conference*, ed. by D. E. Kolari and W. J. Aunan, American Meat Institute Foundation, Chicago, pp. 25-41.

In vitro hepatic lipogenesis in the hen and

chick. *Comparative Biochemistry and Physiology*, 28, 1:431-35.

The influence of fructose diphosphate on pyruvate kinase activity in liver, muscle and adipose tissue of the rat, mouse, pig and chicken. *Ibid.*, 2:733-40.

In vivo fatty acid and cholesterol synthesis in fasted and fasted-refed chicks. *Journal of Nutrition*, 98, 3:367-72.

With K. Chakrabarty

Acetyl CoA carboxylase and fatty acid synthetase activities in liver and adipose tissue of meal-fed rats. *Proceedings of the Society for Experimental Biology and Medicine*, 131, 3:1051-54.

With A. F. Fleming

Thermolabile and stable serum folate activity and serum ascorbic acid concentration in anemic pregnant Nigerian women. *American Journal of Clinical Nutrition*, 22, 5: 642-45.

With E. K. O'Hea

Influence of feeding frequency on lipogenesis and enzymatic activity of adipose tissue and on the performance of pigs. *Journal of Animal Science*, 28, 3:336-41.

Lipid biosynthesis and transport in the domestic chick, *Gallus domesticus*. *Comparative Biochemistry and Physiology*, 30, 2:149-59.

Significance of adipose tissue and liver as sites of fatty acid synthesis in the pig and the efficiency of utilization of various substrates for lipogenesis. *Journal of Nutrition*, 99, 3:338-44.

Influence of fasting and refeeding on lipogenesis and enzymatic activity of pig adipose tissue. *Ibid.*, pp. 345-52.

With Yu-Yan Yeh

Effect of dietary protein on hepatic lipogenesis in the growing chick. *Ibid.*, 98, 3: 356-66.

LEWIS, JOHN M., Associate Professor

Articles

With F. C. Hinds, L. A. Arehart, Jr.,

M. E. Mansfield

Space allowances for lambs on slotted floors. *Journal of Animal Science*, 29, 4:638-41.

LOHMAN, TIMOTHY G., Assistant Professor

Articles

With S. P. Arora, E. E. Hatfield,

U. S. Garrigus, B. B. Doane

Zinc-65 uptake by rumen tissue. *Journal of Nutrition*, 97, 1:25-28.

MISTRY, SORAB P., Professor

Articles

With A. D. Deodhar

Control of gluconeogenesis in biotin-deficient rat liver. *Archives of Biochemistry and Biophysics*, 129, 1:321-28.

Restoration of gluconeogenesis in biotin-deficient rats. *Ibid.*, 131, 2:507-12.

Gluconeogenesis in biotin deficiency: *in vivo* synthesis of pyruvate holocarboxylase in biotin deficient rat liver. *Biochemical and Biophysical Research Communications*, 34, 6:755-59.

With M. S. Patel

Effect of food restriction on systematic oscillations in "control animals" used in studies on biotin-deficient rats. *Journal of Nutrition*, 97, 4:496-504.

Effect of food restriction on metabolic alterations in "control animals" used in studies on biotin-deficient rats. *Ibid.*, 98, 2:235-40.

NALBANDOV, ANDREW V., Professor

Articles

The mechanism of action of progestins in feeds on the reproductive performance of domestic animals. In *The use of drugs in animal feeds*, National Academy of Sciences Publication 1679, pp. 165-69.

Specificity of action of gonadotrophin hormones. *Colloques Internationaux Du Centre National De La Recherche Scientifique. Paris 16-20 juillet, Editions Du Centre National de la Recherche Scientifique 15, quai Anatole-France-Paris-VII*, pp. 335-43.

With Jean W. Graber

Neural control of the anterior and the posterior pituitary gland in birds. In *The hypothalamus*, ed. by Haymaker, Anderson and Nauta, Charles C. Thomas, Springfield, Illinois, pp. 311-25.

Development of the infundibulum of jungle fowl during incubation indicating neurohaemal role for this area. *Journal of Comparative Neurology*, 135, 1:85-92.

With P. L. Keyes, G. D. Niswender

Comparative aspects of maintenance and function of corpora lutea. In *Perspectives in reproduction and sexual behavior*, ed. by Milton Diamond, Indiana University Press, Bloomington, pp. 5-12.

With F. J. Karsch

Comparative aspects of corpus luteum formation and function. *Proceedings III International Congress of Endocrinology, Mexico. Excerpta Medica Foundation, Amsterdam*, pp. 910-15.

With G. L. Jackson

A substance resembling arginine vasotocin in the anterior pituitary gland of the cockerel. *Endocrinology*, 84, 5:1218-23.

Luteinizing hormone releasing activity in the chicken hypothalamus. *Ibid.*, pp. 1262-65.

Ovarian ascorbic acid depleting factors in the chicken hypothalamus. *Ibid.*, 85, 1:113-20.

With G. Ferrando

Direct effect on the ovary of the adrenergic blocking drug dibenzylamine. *Ibid.*, pp. 38-42.

With G. D. Niswender, L. E. Reichert, Jr., A. R. Midgley, Jr.

Radioimmunoassay for bovine and ovine luteinizing hormone. *Ibid.*, 84, 5:1166-73.

With B. Cook, C. C. Kaltenbach, G. D. Niswender, H. W. Norton

Short-term ovarian responses to some pituitary hormones infused *in vivo* in pigs and sheep. *Journal of Animal Science*, 29, 5:711-18.

NORTON, HORACE W., Professor

Articles

Assessment of the efficacy and safety of drugs as used in animal feeds. In *Body composition in animals and man*, National Academy of Sciences Publication 1679, pp. 173-79.

With K. K. Mittal

Discrete characterization of the sub-fractions of porcine haptoglobin (Band 5). *Illinois State Academy of Science Transactions*, 62, 2:188-92.

With T. R. Batra, R. W. Touchberry

Genetic study of milk constituents in purebred and crossbred dairy cattle. *Journal of Animal Science*, 29, 5:671-77.

With S. P. Netke, J. G. Velu, H. M. Scott

Muscular dystrophy in chicks fed crystalline amino acid diets. *Journal of Nutrition*, 99, 3:315-19.

With J. A. Ellis, R. L. Westmeier, K. P. Thomas

Spatial relationships among quail coverts. *Journal of Wildlife Management*, 33, 2: 249-54.

With D. H. Baker, D. E. Becker, A. H. Jensen, B. G. Harmon

Lysine imbalance of corn protein in the growing pig. *Journal of Animal Science*, 28, 1:23-26.

With G. M. Miller, D. E. Becker, A. H. Jensen, B. G. Harmon

Effect of protein intake on nitrogen retention by swine during late pregnancy. *Ibid.*, 2: 204-07.

With D. H. Baker, D. E. Becker, C. E. Sasse, A. H. Jensen, B. G. Harmon

Reproductive performance and progeny development in swine as influenced by feed intake during pregnancy. *Journal of Nutrition*, 97, 4:489-95.

With B. Cook, C. C. Kaltenbach, G. D. Niswender, A. V. Nalbandov

Short-term ovarian responses to some pituitary hormones infused *in vivo* in pigs and sheep. *Journal of Animal Science*, 29, 5:711-18.

OWENS, FREDRIC N., Assistant Professor

Articles

With J. C. Meiske, R. D. Goodrich

Effects of calcium sources and urea on corn silage fermentation. *Journal of Dairy Science*, 52, 11:1817-22.

With D. P. Cooper, R. D. Goodrich, J. C. Meiske

Bomb calorimetry of high-moisture materials. *Ibid.*, 8:1273-77.

RASMUSEN, BENJAMIN A., Professor

Articles

Blood groups and incompatibility testing. In *A textbook of veterinary clinical pathology*, ed. by Medway, Prier and Wilkinson, Williams and Wilkins, Baltimore, pp. 282-98.

RIDLEN, SAMUEL F., Professor

Bulletins and Technical Reports

With H. S. Johnson, F. L. Haegerle
4-H poultry manual—unit 2. *University of Illinois College of Agriculture Cooperative Extension Service, Urbana-Champaign*, BP 64, 21 pp.

ROBSON, RICHARD M., Assistant Professor

Articles

With D. E. Goll, M. J. Temple

Determination of proteins in "tris" buffer by the biuret reaction. *Analytical Biochemistry*, 24, 2:339-41.

SCOTT, HAROLD M., Professor

Articles

With M. Sugahara, D. H. Baker

Effect of different patterns of excess amino acids on performance of chicks fed amino acid-deficient diets. *Journal of Nutrition*, 97, 1:29-32.

With S. P. Netke, J. G. Velu, H. W. Norton
Muscular dystrophy in chicks fed crystalline amino acid diets. *Ibid.*, 99, 3:315-19.

With S. P. Netke, G. L. Allee

Effect of excess amino acids on the utilization of the first-limiting amino acid in chick diets. *Ibid.*, 1:75-81.

DOCTORAL DISSERTATIONS

- Arora, Satya P. (E. E. Hatfield, Adviser), Tissue distribution of administered zinc-65 and possible effect of dietary zinc on Vitamin A metabolism.
- Batra, Tilak R. (H. W. Norton, Adviser), A contribution to the statistical genetics of the production of milk and its proximate constituents by purebred and crossbred dairy cattle.
- Davis, Steven L. (U. S. Garrigus, Adviser), The metabolic and growth stimulatory effects of diethylstilbestrol and its relationship to growth hormone in lambs.
- Mahan, Donald C. (D. E. Becker, Adviser), Nitrogen and water metabolism in the lactating sow.
- Rath, Myles. (D. E. Becker, Adviser), The influence of feeding pattern on protein and amino acid metabolism in the rat and the pig.
- Roche, James F. (P. J. Dziuk, Adviser), Effects of levels of luteinizing hormone and pinealectomy on the seasonal breeding of ewes.

ANTHROPOLOGY

BRUNER, EDWARD M., Professor and Head of Department

Reviews

- O-Kee-Pa: a religious ceremony, by George Catlin. *Ethnohistory*, 15, 4:441-42.
- Smoke from their fires: the life of a Kwakiutl chief, by Clellan S. Ford. *Man*, 4, 1:154.
- Rites of modernization: symbolic and social aspects of Indonesian proletarian drama, by James L. Peacock. *American Anthropologist*, 71, 3:535-37.

CASAGRANDE, JOSEPH B., Professor

Articles

With A. R. Piper

- La transformación estructural de una parroquia rural en las tierras altas del Ecuador. *América Indígena*, 29, 4:1039-64.

CRISSMAN, LAWRENCE W., Instructor

Articles

- On networks. *Cornell Journal of Social Relations*, 4, 1:72-81.

GOULD, HAROLD A., Associate Professor

Articles

- A theory of social stratification and the case of Indian society. In *Anthropology and archaeology: essays in commemoration of Verrier Elwin*, ed. by M. C. Pradhan, Oxford University Press, Bombay and London, pp. 142-53.
- Some preliminary observations concerning the anthropology of industrialization. In *Peasants in cities*, ed. by William P. Mangin, Houghton-Mifflin, New York.
- Toward a Jati-model for Indian politics. *Economic and Political Weekly*, Bombay, February, pp. 291-97.

Reviews

- Contemporary India, by Baidya Nath Varma. *American Anthropologist*, 71:331-33.
- The modernity of tradition, by Lloyd and Susanne Rudolph. *Ibid.*, pp. 537-41.

HALL, ROBERT L., Associate Professor

Bulletins and Technical Reports

- With L. L. Bowles, Emily J. Blasingham
The search for Lorton's Trading Post: a

report of archaeological excavations during 1966 in Oakley Reservoir, Macon and Piatt Counties, Illinois. Illinois State Museum Preliminary Reports, No. 10, Springfield, Illinois, 40 pp.

KELLER, CHARLES M., Assistant Professor
Articles

- Mossel Bay: a redescription. *South African Archaeological Bulletin*, 23: 131-40.

LATHRAP, DONALD W., Professor

Reviews

- Peru before the Incas, by Edward P. Lanning. *American Antiquity*, 34:341-45.
- On the royal highways of the Inca, by Heinrich Ubbelohde-Doering. *Ibid.*, p. 184.

LEHMAN, FREDERIC K., Professor

Reviews

- Garo and Khasi, by Chie Nukane. *American Anthropologist*, 71:1155-58.
- A ceremonial ox of India, by F. Simoons. *Journal of Asian Studies*, 29:198-99.

LEWIS, OSCAR, Professor

Books

- A death in the Sánchez family. Random House, New York, 119 pp.

Articles

- The culture of poverty. In *Man in adaptation: the cultural present*, ed. by Yehudi A. Cohen, Aldine Press, Chicago, pp. 406-14. 1968.
- A Puerto Rican boy. In *Culture change, mental health, and poverty*, ed. by Joseph C. Finney, University of Kentucky Press, Lexington, pp. 149-72.
- Portrait. In *Breakthrough*, by Robert E. Yarber, Cummings Publishing Co., Menlo Park, California, pp. 100-04.
- La Esmeralda. *The Critic*, 27, 5:12-23.
- CA book review of culture and poverty: critique and counter proposals, by Charles A. Valentine. *Current Anthropology*, 10, 2-3:189-92.
- One can suffer anywhere. *Harper's*, 238, 1428:54-60.
- The death of Dolores. *TRANSAction*, 6, 7:10-19.
- A death in the Sánchez family. *New York Review of Books*, 13, 4:31-37; 13, 5:34-38.
- The possessions of the poor. *Scientific American*, 221, 4:114-24.

Reviews

- Culture and poverty, by Charles A. Valentine. *Caribbean Review*, 1, 1:5-6.

McGREGOR, JOHN C., Professor

Reviews

- The Angel Site, (2 vols.), by Glen A. Black. *American Antiquity*, 34, 1:89-90.

SHIMKIN, DEMITRI B., Professor

Articles

With J. H. Steward and others

- Further thoughts on the biological revolution. *The Atlantic Monthly*, March, pp. 46-50.

Reviews

- Esto-Europa: a treatise on the Finno-Ugric primary civilization, by Edgar V. Saks. *Slavic Review*, 27:640. 1968.

With Edith M. Shimkin

- Russian land, Soviet people, by James S. Gregory. *The Russian Review*, 28:459-60.

DOCTORAL DISSERTATIONS

Butterworth, Douglas S. (O. Lewis, Adviser), Factors in out-migration from a rural Mexican community.

Gardner, William M. (J. C. McGregor, Adviser), The Havana cultural tradition occupation in the Upper Kaskaskia river valley, Illinois.

Hicks, George L., Jr. (J. B. Casagrande, Adviser), Ideology and change in an American utopian community.

Lang, Norris G. (J. B. Casagrande, Adviser), Tradition and transformation in the industrialization of an Ecuadorean sugar plantation.

O'Brien, Patricia J. (D. W. Lathrap, Adviser), A formal analysis of Cahokia ceramics: Powell tract.

Richardson, James B., III. (D. W. Lathrap, Adviser), Pre-ceramic sequence and the Pleistocene and post-Pleistocene climate of north-west Peru.

Wolpoff, Milford H. (D. W. Lathrap, Adviser), Metric trends in hominid dental evolution.

ARCHITECTURE

FRANCESCATO, GUIDO, Associate Professor
Articles

City Hall Square study. *Wisconsin Architect*, 40, 7:14.

LOZAR, CHARLES C., Instructor

Bulletins and Technical Reports

System of low cost disposable housing for underdeveloped regions of the world. Report to University Graduate Research Board, University of Illinois, Urbana, 66 pp.

ART

BRADSHAW, GLENN R., Professor

Articles

Are juried exhibitions worth saving? *American Artist*, 33, 2:56-57, 72-74.

Jackson's prairie, *Ibid.*, 5:60-65.

Untitled, in *The content of watercolor*, by and ed. by Edward Reep, VanNostrand Reinhold, New York, p. 71.

FEHL, PHILIPP P., Professor

Articles

The final version of Michelangelo's "Tomb of Julius II." In *Renaissance papers 1968*, Southeastern Renaissance Conference, Duke University, Durham, North Carolina, pp. 85-87.

Propaganda and the integrity of art: notes on an exhibition of war posters. In *World War I propaganda posters, selection from the Bowman Gray collection of materials related to World War I and World War II*, Chapel Hill, North Carolina, pp. 3-20.

Realism and classicism in the representation of a painful scene: Titian's "Flaying of Marsyas" in the archiepiscopal palace at Kroměříž. In *Czechoslovakia past and present*, ed. by Miroslav Rechcigl, Jr., Mouton, The Hague, 2:1387-1415.

Reviews

Studies in renaissance and baroque art presented to Anthony Blunt on the occasion of his 60th birthday. *Journal of Aesthetics and Art Criticism*, 27, 1:100.

Lexikon der Christlichen ikonographie (6. Lieferung) by Hans Aurenhammer. *Ibid.*, pp. 100-01.

JOHNSON, WALTER M., Professor and Director of Extension in Visual Arts

Reviews

The international style, by Henry-Russell Hitchcock and Philip Johnson. *Art Education*, 22, 1:40-41.

Palladio, by James S. Ackerman. *Ibid.*, 5: 27.

MARSHALL, H. JAMES, Associate Professor
Bulletins and Technical Reports

Preference education research program in art education: final report. Bureau of Research Project No. 9-0119, Office of Education, U.S. Department of Health, Education, and Welfare, 35 pp.

Reviews

African and oceanic art, by Margaret Trowell and Hans Nevermann. *Art Education*, 21, 8:3.

Graphic details for architects, by Carl Kemmerich. *Ibid.*, 22, 3:31.

MUNAKATA, KIYOHICO M., Assistant Professor

Reviews

Literary and art theories in Japan by Makoto Ueda, *The Journal of Aesthetic Education*, 3:157-59.

RAE, EDWIN C., Professor

Reviews

Medieval fonts of Meath, by Helen M. Roe. *Journal of the Royal Society of Antiquaries of Ireland*, 99:88-90.

SHIPLEY, JAMES R., Professor and Head of Department

Articles

With A. S. Weller

The new artist. In *Contemporary American painting and sculpture 1969*. University of Illinois Press, Urbana, pp. 7-21.

Bulletins and Technical Reports

Interior design. Circular H 1.0, Small Homes Council, University of Illinois Press, Urbana, 8 pp.

WELLER, ALLEN S., Professor and Dean of College of Fine and Applied Arts

Articles

Frederick Carl Frieseke: the opinions of an American impressionist. *Art Journal*, 28: 160-65.

The Krannert Art Museum. *Ibid.*, pp. 292-95.
The Krannert Center for the Performing Arts. *The Journal of Aesthetic Education*, 3: 11-17.

With J. R. Shipley

The new artist. In *Contemporary American painting and sculpture 1969*, University of Illinois Press, Urbana, pp. 7-21.

ASTRONOMY

DICKEL, HELENE R., Research Associate

Articles

With H. Wendker, J. Bieritz

The Cygnus X region V: catalogue and distances of optically visible H II regions. *Astronomy and Astrophysics*, 1:270-80.

DICKEL, JOHN R., Associate Professor

Articles

The radio structure of Tycho's supernova remnant. *Astrophysical Letters*, 4, 4:109-12.

With R. R. McKinley

610.5 MHz contour maps of the supernova remnants HB9, S147, and IC443. *Astrophysical Journal*, 155, 1:67-73.

With J. W. Erkes

Radio observations of the supernova remnant HB21. *Ibid.*, 74, 6:840-45.

KALER, JAMES B., Associate Professor

Articles

With L. H. Aller

Faint emission lines of gaseous nebulae. *Ibid.*, 157, 3:1231-44.

McVITTIE, G. C., Professor and

Head of Department

Articles

A cosmologist looks at the hypothesis of a change in the gravitational constant. In *The application of modern physics to the earth and planetary interiors*, ed. by S. K. Runcorn, Wiley-Interscience, New York, pp. 19-28.

Remarks on spherical symmetry and Einstein's equations. In *Fluides et champ gravitationnel en relativité générale*, Centre Nationale de la Recherche Scientifique, Paris, pp. 159-62.

With R. Ringenberg

Number counts of extragalactic radio sources. *Monthly Notices Royal Astronomical Society*, 142:1-9.

With R. Stabell

Gravitational motions in general relativity — The scale-function. *Annales de l'Institut Henri Poincaré*, 9:371-93.

OLSON, EDWARD C., Associate Professor

Articles

Surface gravities and hydrogen-line profiles in eclipsing binary systems. In *Proceedings of the third Harvard-Smithsonian conference on stellar atmospheres*, ed. by O. Gingerich, M.I.T. Press, Cambridge, pp. 285-89.

The detection and surface gravities of metallic-line early A stars. *Publications of the Astronomical Society of the Pacific*, 81, 479:97-104.

RUBIN, ROBERT H., Research Associate

Articles

Abundances in diffuse nebulae. *Astrophysical Journal*, 155:841.

Electron temperatures of H II regions. *Ibid.*, 157:1461.

Helium abundances and the sizes of He II and H II regions. *Ibid.*, 74:994.

With B. E. Turner

Radio observations of the nebulae K3-50 — NGC 6857. *Astrophysical Journal Letters*, 157:L41.

SWENSON, G. W. JR., Professor

See Electrical Engineering.

WYATT, STANLEY P., JR., Professor

Books

With J. M. Atkin

Charting the universe. Harper and Row, New York, 87 pp.

The universe in motion. *Ibid.*, 112 pp.

Gravitation. *Ibid.*, 112 pp.

The message of starlight. *Ibid.*, 112 pp.

The life story of a star. *Ibid.*, 96 pp.

Galaxies and the universe. *Ibid.*, 110 pp.

Articles

The electrostatic charge of interplanetary grains. *Planetary and Space Science*, 17: 155-71.

Reviews

Galactic astronomy, by Dimitri Mihalas. *Sky and Telescope*, 37:307-09.

YOSS, KENNETH M., Professor

Articles

With T. E. Lutz

Stellar radial velocities derived from microphotometer measures. *Astronomical Journal*, 74:91.

Reviews

Stellar kinematics, by W. M. Smart, and Galactic structure, by Dimitri Mihalas. *Physics Today*, 22, 12:75-77.

DOCTORAL DISSERTATIONS

Cahill, Michael E. (G. C. McVittie, Adviser), Einstein's equations of general relativity for spherical symmetry and the mass-function.

Goodman, Gary C. (J. R. Dickel, Adviser), Models of Jupiter's atmosphere.

Lutz, Thomas E. (K. M. Yoss, Jr., Adviser), An intercomparison of three spectroscopic luminosity criteria.

Ringenberg, Richard R. (G. C. McVittie, Adviser), Extragalactic radio sources in uniform model universes.

ATMOSPHERIC RESEARCH

OGURA, YOSHIMITSU, Professor and

Director of Laboratory

Articles

With A. Yagihashi

A numerical study of convection rolls in a flow between horizontal parallel plates. *Journal of the Meteorological Society of Japan*, 47, 3:205-18.

On the degeneracy of finite-amplitude steady-state solutions for Benard convection in a highly truncated system. *Ibid.*, 6:437-45.

With A. Takeda, R. Kimura, K. Taira, T. Nakai

Survey of sea surface temperature of the Tsushima warm current with seaborne and airborne radiation thermometers. *Ibid.*, 4: 310-18.

TAKAHASHI, TSUTOMU, Visiting

Associate Professor

Articles

Electric charge generation by the breaking of frost under a temperature gradient. *Journal of the Meteorological Society of Japan*, 47, 1:23-28.

Electric potential of liquid water on an ice surface. *Journal of the Atmospheric Sciences*, 26, 6:1253-58.

Electric potential of rubbed ice surface. *Ibid.*, 6:1259-65.

BIOLOGY

DOCTORAL DISSERTATIONS

Bleyman, Michael A. (C. R. Woese, Adviser), Investigations on the organization of the ribosomal RNA cistrons in *Bacillus subtilis*.

Burns, Peter J. (D. L. Nanney, Adviser), The

- isolation and partial characterization of two immobilization antigens of *Tetrahymena pyriformis*, Syngen 1.
- Jakštyš, Birutė P. (P. H. Silverman, Adviser), Serologic and electron microscopic studies on the sheep parasitic nematode, *Haemonchus contortus*.
- Lesnaw, Judith A. (M. E. Reichmann, Adviser), An investigation of the chemical structure of the Tobacco Necrosis Virus.
- Radcliffe, Charles W. (S. Spiegelman, Adviser), Studies of the bb locus in *Drosophila melanogaster*.
- White, Mary P. (K. C. Atwood, Adviser), An analysis of the bobbed locus of *Drosophila ananassae*.

BIOPHYSICS**DOCTORAL DISSERTATIONS**

- Cho, Frederick Y. (Govindjee, Adviser), Low temperature spectroscopy of algae.
- Hogins, Michael T. (H. Von Foerster, Adviser), Identification of the human ankle control system.
- McCrea, Mary E. J. (J. E. Heath, Adviser), Temperature regulation and control of warmup behavior in the sphinx moth, *Manduca sexta*.
- Rothman, Howard H. (H. W. Hake, Adviser), The auditory evoked cortical response and subjective estimates of loudness.
- Stevens, Richard J. (C. L. Prosser, Adviser), Inhibition in the frog optic tectum.
- Vaughan, William M. (G. Weber, Adviser), Fluorescence decay of pyrene butyric acid attached to macromolecules: a study by pulsed laser excitation.

BOTANY

BAZZAZ, FAKHRI A., Assistant Professor

Articles

With A. W. Haney

Succession and species distribution in relation to erosion in southern Illinois. *Transactions of the Illinois State Academy of Science*, 62, 4:430-35.

BLACK, LINDSAY M., Professor

Articles

Insect tissue cultures as tools in plant virus research. *Annual Review of Phytopathology*, 7:73-100.

With R. J. Chiu

Assay of wound tumor virus by the fluorescent cell counting technique. *Virology*, 37: 667-77.

BOYER, JOHN S., Assistant Professor

Articles

Free-energy transfer in plants. *Science*, 163: 1219-20.

Measurement of water status of plants. *Annual Review of Plant Physiology*, 20:351-64.

GOVINDJEE, Professor

Books

With E. Rabinowitch

Photosynthesis. John Wiley and Sons Inc., New York, 273 pp.

Articles

With J. C. Munday, Jr.

Light induced changes in the fluorescence

yield of chlorophyll *a* *in vivo* III. The dip and the peak in the fluorescence transient of *Chlorella pyrenoidosa*. *Biophysical Journal*, 9:1-21.

Light induced changes in the fluorescence yield of chlorophyll *a* *in vivo* IV. The effect of preillumination on the fluorescence transient of *Chlorella pyrenoidosa*. *Ibid.*, pp. 22-35.

Fluorescence transients in *Chlorella*: effect of supplementary light, Anaerobiosis, and Methylviologen. In *Progress in photosynthesis research*, vol. II, ed. by H. Metzner, H. Laupp, Jr., Tübingen, Germany, pp. 913-22.

With G. Papageorgiou

The "second wave" of fluorescence induction in *Chlorella pyrenoidosa*. *Ibid.*, pp. 905-12.

With H. Merkelo, S. R. Hartman, T. Mar, G. S. Singhal

Mode-locked lasers: measurements of very fast radiative decay in fluorescent systems. *Science*, 164:301-02.

With H. deKlerk, M. D. Kamen, J. Lavorel

Age and fluorescence characteristics in some species of *Athiorhodaceae*. *Proceedings of the National Academy of Science, U.S.A.*, 62: 972-78.

HANEY, ALAN W., Assistant Professor

Articles

With F. A. Bazzaz

Succession and species distribution in relation to erosion in southern Illinois. *Transactions of the Illinois State Academy of Science*, 62, 4:430-35.

HANSON, JOHN B., Professor and

Head of Department

Articles

The physiology of corn production. In *Proceedings 23rd annual corn research conference*, American Seed Trade Association, Washington, D.C., pp. 97-105.

With R. H. Wilson

The effect of respiratory inhibition on NADH, succinate and malate oxidation in corn mitochondria. *Plant Physiology*, 44, 9:1335-41.

With R. H. Wilson, H. H. Mollenhauer

Active swelling and acetate uptake in corn mitochondria. *Biochemistry*, 8:1203-13.

With R. J. Miller

Active swelling in plant mitochondria. *Plant and Cell Physiology*, 10:491-94.

With F. W. Slife

Role of RNA metabolism in the action of auxin herbicides. *Residue Reviews*, 25: 59-67.

With R. C. Fites, F. W. Slife

Alteration of messenger RNA and ribosome synthesis in soybean hypocotyl by 2,4-Dichlorophenoxyacetic acid. *Botanical Gazette*, 130:118-26.

With D. E. Bottrill

The action of 2,4-Dinitrophenol on corn root mitochondria. *Australian Journal of Biological Sciences*, 22:847-55.

With T. J. Flowers

The effect of reduced water potential on soybean mitochondria. *Plant Physiology*, 44: 939-45.

HOFFMAN, LARRY R., Associate Professor

Articles

Oedogonium chaetophorum nomen novum. *Canadian Journal of Botany*, 47, 1:219.

MILLER, HARVEY A., Visiting Professor

Articles

Hepaticae from Truk, Caroline Islands. *Micronesica*, 4:238-59.

With D. R. Smith

Mosses from Truk, Caroline Islands. *Ibid.*, pp. 213-37.

With E. S. Swanson

Hepaticae from Palau, Caroline Islands. *Ibid.*, 5:133-43.

PAOLILLO, DOMINICK J., JR., Professor

Articles

The plastids of *Polytrichum*. II. The sporogenous cells. *Cytologia*, 34:133-44.

The three-dimensional arrangement of intergranular lamellae in chloroplasts. *Journal of Cell Science*, 6:243-55.

With N. C. MacKay, J. R. Graffius

The structure of grana in flowering plants. *American Journal of Botany* 56:344-47.

With L. Spiss

Semi-vitro methods in the study of compatibility in birdsfoot trefoil, *Lotus corniculatus* L. *Crop Science*, 9:173-75.

With R. H. Jagels

Photosynthesis and respiration in germinating spore of *Polytrichum*. *The Bryologist*, 72: 444-51.

PAYNE, WILLARD W., Associate Professor

Articles

A quick method for clearing leaves. *Ward's Bulletin*, 8, 61:4-5.

REICHMANN, M. E., Professor

Articles

With E. Wimmer

Two '3 terminal sequences in Satellite Tobacco Necrosis Virus-RNA. *Nature*, 221:1122.

With D. Roy, H. Fraenkel-Conrat, J. Lesnaw

The protein subunit of the Satellite Tobacco Necrosis Virus. *Virology*, 38:368.

With H. Y. Liu, F. O. Holmes

Satellite Tobacco Necrosis Virus from Mung Beans. *Phytopathology*, 59:833.

With Judith A. Lesnaw

The structure of Tobacco Necrosis Virus. I. The protein subunit and the nature of the nucleic acid. *Virology*, 39:729.

The structure of Tobacco Necrosis Virus. II. Terminal amino acid residues of the protein subunit. *Ibid.*, p. 738.

SARGENT, MALCOLM L., Assistant

Professor

Articles

Effects of four antibiotics on growth and periodicity of a rhythmic strain of *Neurospora*. *Neurospora Newsletter*, 15:17.

With D. O. Woodward

Genetic determinants of circadian rhythmicity in *Neurospora*. *Journal of Bacteriology*, 97, 2:861-66.

Gene-enzyme relationships in *Neurospora* Invertase. *Ibid.*, pp. 867-72.

With H. D. Braymer

Selection of intramural-enzyme mutants. *Neurospora Newsletter*, 14:11-12.

TUVESON, ROBERT W., Associate Professor

Articles

An evaluation of the relationship between UV sensitivity and crossing over in bacteria and fungi. *The American Naturalist*, 103:23-30.

With Gisela Wohlrab

Effects of liquid holding on the induction of mutations in an ultraviolet-sensitive strain of *Aspergillus nidulans*. *Mutation Research*, 8:265-75.

DOCTORAL DISSERTATIONS

Ahmed, Mahmoud. (L. M. Black, Adviser), Purification and some chemical aspects of wound tumor and potato yellow dwarf viruses.

Gabay, Susan J. (J. R. Laughnan, Adviser), Recombination at the *BAR* locus in a reverse attached-X system in *Drosophila melanogaster*.

Old, Sylvia M. (L. C. Bliss, Adviser), Microclimate, fire and plant production in an Illinois prairie.

Seago, James L. (Z. B. Carothers, Adviser), Developmental anatomy of primary and lateral roots of *Ipomoea purpurea*.

BUSINESS ADMINISTRATION

ARNOULD, RICHARD J., Assistant

Professor

See Economics.

BEDFORD, NORTON M., Professor

See Accountancy.

BLACK, ROBERT L., Associate Professor

Articles

When do title and risk of loss pass in a sale? *The Practical Accountant*, 2, 4:54-55.

COOPER, JAMES R., Assistant Professor

See Finance.

EGLOFF, WILLIAM F., Assistant Professor

Articles

Product management: status of the art—1969. *Academy of management proceedings*, August 24-27, pp. 95-110.

FERBER, ROBERT, Professor and Director of Survey Research Laboratory

See Survey Research Laboratory.

GARDNER, DAVID M., Assistant Professor

Articles

With J. L. Simon

World food needs and "new proteins." *Economic Development and Cultural Change*, 17, 4:520-26.

Reviews

Consumer behavior, by James Engel. *Journal of Marketing*, 33, 3:98.

LEVY, HAIM, Visiting Associate Professor

Articles

A utility function depending on the first three moments. *Journal of Finance*, 24: 715-19.

With G. Hanoch

The efficiency analysis of choices involving risk. *Review of Economic Studies*, 36: 335-45.

With M. Sarnat

The relationship of rules of thumb to the internal rate of return: a restatement and generalization. *Journal of Finance*, 24: 479-89.

A note on indifference curves and uncertainty. *Swedish Journal of Economics*, 71:206-08.

McGUIRE, JOSEPH W., Professor and Dean

of College of Commerce and Business Administration

Books

Inequality: the poor and the rich in America. Wadsworth Publishing Company, Inc., Belmont, California, 172 pp.

Articles

Collegiate business education: 1985. In *Future and cross-cultural dimensions of management*, Bureau of Business Research, University of New Mexico, Albuquerque, pp. 33-35.

Collegiate business education: problems and alternatives. *American Association of Collegiate Schools of Business Bulletin*, 6, 1:1-9.

A confusion of values. *Northern Illinois University Business Report*, 6:1-9.

Knowledge: the basic business commodity. *Business Horizons*, 12, 3:31-38.

The changing nature of business responsibilities. *Journal of Risk and Insurance*, 26, 1:55-63.

RAGO, LOUIS J., Associate Professor

Articles

Time study, incentives and productivity. *Productivity*, 10, 2:276-82.

ROWLAND, KENDRITH M., Assistant Professor

Articles

With M. G. Sovereign

Forecasting internal manpower supply with Markov-chain analysis. *Proceedings*, 12th Annual Conference, Midwest Academy of Management, pp. 156-68.

Markov-chain analysis of internal manpower supply. *Industrial Relations*, 9, 1:88-99.

Reviews

The entrepreneur and his firm: the relationship between type of man and type of company, by Norman R. Smith. *Personnel Psychology*, 21, 2:270-72.

Technology and jobs: automation in perspective, by A. J. Jaffe and J. Froomkin. *Quarterly Review of Economics and Business*, 9, 1:80-82.

SCHOENFELD, HANNS-MARTIN W., Professor

See Accountancy.

SHETH, JAGDISH N., Associate Professor

Books

With J. A. Howard

The theory of buyer behavior. John Wiley and Sons, Inc., New York, 458 pp.

Articles

Applications of multivariate methods in marketing. In *Marketing and the new science of planning*, ed by King, American Marketing Association, Chicago, pp. 259-65.

Using factor analysis to estimate parameters. *Journal of the American Statistical Association*, 64:808-22.

With M. Venkatesan

An experimental study in risk reduction. In *Marketing and the new science of planning*, ed. by King, American Marketing Association, Chicago, pp. 213-14.

Reviews

Consumer image and attitude, by John Myers. *Journal of Marketing Research*, 6:381-82.

SIMON, JULIAN L., Professor

See Economics.

SUDMAN, SEYMOUR, Associate Professor
See Survey Research Laboratory.

DOCTORAL DISSERTATIONS

Abou El Enein, Gaber. (J. A. Litterer, Adviser), A study of the effect of raters' characteristics and leadership styles on performance ratings.

Aly, Hamdy F. (J. A. Litterer, Adviser), An inquiry into the contributions and limitations of research for a model of the optimum organizational structure — a non-linear programming model for optimizing structural dimensions of unitary organizations.

Soliman, Hanafi M. (H. Triandis, Adviser), The motivation-hygiene theory of job attitudes: an empirical investigation, and an attempt to reconcile both the one and the two-factor theories of job attitudes.

Tushaus, James P. (D. P. Flanders, Adviser), An application of sales analysis and market measurement to the marketing problems of newspapers.

CENTER FOR ADVANCED STUDY

COTTLE, THOMAS J., Fellow

Articles

The money game: notes on fantasies of temporal recovery and preknowledge. *Diogenes*, 65:116-39.

Notes on the "appropriateness" of censorship. *The Leaflet, Journal of New England Association of Teachers of English*, May, pp. 24-27.

The duration inventory: subjective extensions of temporal zones. *Acta Psychologica*, 29: 333-52.

The politics of pronouncement: notes on publishing in the social sciences. *Harvard Educational Review*, 39:558-70.

Temporal correlates of the achievement value and manifest anxiety. *Journal of Consulting and Clinical Psychology*, 33:541-50.

Future orientations and avoidance: speculations on the time of achievement and social roles. *Sociological Quarterly*, 10:419-37.

With J. Pleck

Linear estimations of temporal extension: the effect of age, sex and social class. *Journal of Projective Techniques and Personality Assessment*, 33:81-93.

With P. Howard

Temporal extension and time zone bracketing in Indian adolescents. *Journal of Perceptual and Motor Skills*, 28:599-612.

With P. Howard, J. Pleck

Adolescent perceptions of time: the effects of age, sex and social class. *Journal of Personality*, 37:636-50.

With J. F. Marsh, Jr.

Preliminary notes for a model of system change. *Cahiers Internationaux de Sociologie*, 46, January-June, pp. 67-82.

Reviews

Time for dying, by Barney G. Glaser and Anselm L. Strauss. *American Sociological Review*, 34:794-95.

CRISSMAN, LAWRENCE, Fellow and Research Associate and Instructor in Anthropology

See Anthropology

CROSS, ANTHONY G., Fellow

Articles

The Reverend William Tooke's contribution

to English knowledge of Russian at the end of the eighteenth century. *Canadian Slavic Studies*, 3, 1:106-15.

The breaking strings of Chekhov and Turgenyev. *Slavonic and East European Review*, 13:510-13.

Karamzin in English. *Canadian Slavic Studies*, 3, 1:716-27.

Reviews

Messenger of Europe (Vestnik Yevropy), 1802-03, by N. M. Karamzin. *Forum for Modern Language Studies*, 5, 1:1-25.

DELIGIORIS, STAVROS G., Fellow, and Visiting Associate Professor of English

Articles

Fauriel and modern Greek poetry. *Publications of the Modern Language Association*, 84:9-13.

Structuralism and the study of poetry. A parametric analysis of Chaucer's Shipman's tale and Parlement of foules. *Neuphilologische Mitteilungen*, 70:297-306.

Three poems by T. Englezos and one by D. Christodoulou (Translated from modern Greek into English). *Micromegas*, 2:9-12. 1968.

Reviews

The poetry of Lydgate, by Alain Renior. *Comparative Literature*, 21:273-77.

GAULT, JEFFREY M., Graham Fellow and Instructor in Architecture

Books

With M. Bignell, L. Kagan

Process of re-urbanization: studies of the urban environment. Yale University Press, New Haven, 168 pp.

KAU, YING-MAO, Fellow and Research Associate in Political Science

Articles

The urban bureaucratic elite in Communist China. In *Chinese communist politics in action*, ed. by Barnett, University of Washington Press, Seattle, pp. 216-67.

O'BRIEN, DARCY, Fellow and Research Associate in English

Articles

Joyce and sexuality. *Twentieth Century Studies*, 1, 2:32-38.

ORNSTON, LEO N., Fellow

Articles

With M. K. Ornston

Two forms of D-glycerate kinase in *Escherichia coli*. *Journal of Bacteriology*, 97: 1227-33.

Pathway of glyoxylate oxidation in *Escherichia coli*. *Bacteriological Proceedings*, 1969: 128.

Regulation of glyoxylate metabolism in *Escherichia coli* K-12. *Journal of Bacteriology*, 98:1098-1108.

With M. K. Ornston, G. Chou

Isolation of spontaneous mutant strains of *Pseudomonas putida*. *Biochemistry and Biophysics Research Communication*, 36:179-84.

ROSEN, LAWRENCE, Fellow and Assistant Professor of Anthropology

Articles

North African Jewish studies: a review essay. *Judaism*, 17, 4:422-29.

Reviews

Rebirth of a nation: the origins and rise of

Moroccan nationalism, by John Halstead. *American Anthropologist*, 71:958-60.

Morocco's Saharan frontiers, by Frank Trout. *Middle East Journal*, 23, 4:548-49.

Dialogue with Ishmael: Israel's future in the Middle East, by Aubrey Hodes. *Jewish Social Studies*, 31, 3:233-34.

CERAMIC ENGINEERING

ALLEN, ALFRED W., Professor

Articles

Salient facts from ceramic educational council delegates' fall meeting. *American Ceramic Society Bulletin*, 48, 3:300-01.

Curriculum dynamics in ceramic engineering. *Ibid.*, 4:514-15.

Is ceramic educational council, national institute of ceramic engineers merger feasible? *Ibid.*, 5:590-91.

The St. Louis experiment (in continuing education). *Ibid.*, 6:665-66.

BERGERON, CLIFTON G., Professor

Articles

The electrical properties of vitreous coatings. Proceedings of the Porcelain Enamel Institute, 30:1-15. 1968.

With R. J. Eagan, J. P. De Luca

Crystallization of PbO·2BaO₂ from its supercooled melt. *Journal of the American Ceramic Society*, 52, 6:322-26.

With J. P. De Luca

Diffusion of lead in a lead-borate glass. *Ibid.*, 11:629-30.

Reviews

Ceramic microstructures, by R. M. Fulrath and J. A. Pask. *American Ceramic Society Ceramic Abstracts*, 8:301-02.

Surfaces and interfaces, vols. I and II. *Ibid.*, 10:366.

Fundamentals of inorganic crystal chemistry. *Ibid.*, 11:388-89.

COOK, RALPH L., Professor

Articles

With N. H. Harris

Solid state reactions of SrCO₃ and TiO₂. *Journal of Physical Chemistry*, 72:3326-27. 1968.

Bulletins and Technical Reports

Direct-on, one-coat porcelain enameling. Australasian Vitreous Enamellers' Institute, Beaconsfield, New South Wales, Australia, 23 pp.

FRIEDBERG, ARTHUR L., Professor and Head of Department

Articles

With R. R. Tummala

Strength of glass-crystal composites. *Journal of the American Ceramic Society*, 52, 4: 228-29.

With G. Paulson

Use of glow discharge for inhibiting agglomeration of gold films on glass. In *Proceedings, 27th annual meeting, electron microscopy society of America*, ed. by Claitors Publishing Division, Baton Rouge, Louisiana, pp. 126-27.

NELSON, JAMES A., Professor

Articles

With D. H. Sturgis

Effects of gaseous adsorbates on the compaction of ultrafine alumina powder. *Journal*

of the *American Ceramic Society*, 52, 5: 286-87.

DOCTORAL DISSERTATIONS

De Luca, John P. (C. G. Bergeron, Adviser), Ionic transport in lead diborate glass.

Fehrenbacher, Larry L. (J. A. Nelson, Advisor), A study of electrical properties of ceramic materials and semi-conducting crystals.

Laird, James A. (C. G. Bergeron, Advisor), Crystal growth and boron coordination in barium and lead tetraborate melts.

Nutt, Alfred W., Jr. (A. W. Allen, Adviser), Elastic and anelastic response in polycrystalline system UO_2 - PuO_2 .

Paulson, Gary G. (A. L. Friedberg, Adviser), Interface phenomena and adhesion of gold thin films on glass.

Tummala, Rao R. (A. L. Friedberg, Adviser), Thermal expansion, internal stress, and strength of glass-crystal composites.

CHEMISTRY, INCLUDING CHEMICAL ENGINEERING AND CHEMICAL PHYSICS

ALKIRE, RICHARD C., Assistant Professor

Articles

With E. A. Grens, C. W. Tobias

Preparation of uniform pore structures for porous electrode studies. *Journal of the Electrochemical Society*, 116, 6:809.

A theory for porous electrodes undergoing structural change by anodic dissolution. *Ibid.*, 10:1328.

APPLEQUIST, DOUGLAS E., Professor

Articles

With F. Fisher

Iodoform- d and methylene- d_2 iodide. *Journal of Labelled Compounds*, 5:86-87.

With J. Applequist, P. Rivers

Theoretical and experimental studies of optically active bridgehead-substituted adamantanes and related compounds. *Journal of the American Chemical Society*, 91: 5705-11.

BAILAR, JOHN C., Professor

Articles

With J. E. House, Jr.

The solid state deamination of tris(ethylenediamine)- and tris(propylenediamine)-chromium(III) thiocyanate. *Journal of the American Chemical Society*, 91:67-71.

Kinetics of the linkage isomerization in iron-(II)-hexacyanochromate(III). *Inorganic Chemistry*, 8, 3:672.

With Walter J. Kasowski

Steric effects in coordination of 1,1,1-tris(dimethylaminomethyl)ethane and of 1,1,1-tris(monomethylaminomethyl)-ethane. I. Zinc-(II) complexes. *Journal of the American Chemical Society*, 91:3212.

With B. Das Sarma

Chemistry of metal complexes with polydentate ligands. Complexes of n -hydroxyethyl-ethylenediamine. *Ibid.*, pp. 5958-63.

Reviews

Halides of the second and third row transition metals, by J. H. Canterford and R. Colton. *Journal of the American Chemical Society*, 91:4616.

New pathways in inorganic chemistry, edited by E. A. V. Ebsworth, A. G. Maddock, and A. G. Sharpe. *Science*, 165:682-83.

Chemical principles (2nd ed.), by W. L. Masterton and E. J. Slowinski. *Journal of Chemical Education*, 46, 12:880.

BEAK, PETER, Associate Professor

Articles

With W. R. Messer

The photochemistry of heteroaromatic nitrogen compounds. In *Organic photochemistry*, vol. 2, ed. by Chapman, M. Decker, New York, pp. 117-67.

Photorearrangements of some N-methyl diazoles. *Tetrahedron*, 25:3287-95.

With E. M. Monroe

Hydrogen-deuterium exchange of the thia-pyrones, N-methylpyridones and N-methylpyrimidones in basic media. *Journal of Organic Chemistry*, 34:589-96.

With J. T. Lee, Jr.

Equilibration studies: 2-methylthiopyridine-N-methyl-2-thiopyridone. *Ibid.*, pp. 2125-28.

With R. J. Trancik, D. Simpson

The reactions of chloroformates with silver fluoro salts. *Journal of the American Chemical Society*, 91:5073-80.

BEATTIE, JAMES K., Assistant Professor

Articles

With Sr. H. Elsbernd

Optically active trisethylenediamine complexes of ruthenium. *Inorganic Chemistry*, 8:893.

Conformational stability of tris(ethylenediamine)ruthenium(II) ion in solution. *Journal of the American Chemical Society*, 91: 4573.

With J. K. Witschy

A more convenient synthesis of bis(ethylenediamine)ruthenium(III) compounds. *Inorganic Nuclear Chemistry Letters*, 5:969.

With S.-A. Frennesson, G. P. Haight, Jr.

Kinetics and mechanism of the reaction between hydrogen chromate and dihydrogen phosphite. *Acta Chemica Scandinavica*, 23: 3277.

BELFORD, R. LINN, Associate Professor

Articles

With B. W. Moores

Magnetic tensor anisotropy in a low-symmetry copper(II) chelate. In *Electron spin resonance of metal complexes*, ed. by T. F. Yen, Plenum Press, New York, pp. 13-22.

With M. A. Hitchman

The electron spin resonance spectrum of copper-doped palladium bis-benzoylacetate crystals. *Ibid.*, pp. 97-109.

Electron magnetic resonance of oriented vanadyl ions in single crystals of *trans*-palladium bis(benzoylacetate) and *cis*-zinc bis(benzoyl-acetate) ethanolate. *Inorganic Chemistry*, 8:958-65.

With Jane A. Keefer, J. K. S. Fu

One-center molecular calculations with unlimited radial basis. H_2 , HeH^+ , LiH centered on one nucleus. *Journal of Chemical Physics*, 50:160-73.

With N. D. Chasteen, I. C. Paul

The crystal structure and electronic spectrum of a vanadyl α -hydroxy-carboxylate complex. Sodium tetraethylammonium bis(benzilato)oxovanadium(IV) diisopropanolate. *Inorganic Chemistry*, 8:408-18.

With M. A. Hitchman, C. D. Olson

Behavior of the in-plane g tensor in low symmetry d^1 and d^9 systems with application to copper and vanadyl chelates. *Journal of Chemical Physics*, 50:1195-1203.

- With N. D. Chasteen, M. A. Hitchman, P. K. Hon, C. E. Pfluger, I. C. Paul
The crystal and molecular structure of bis-(benzoylacetonato) zinc monoethanolate and x-ray data on related crystals. *Ibid.*, pp. 1312-19.
- With M. A. Hitchman, B. W. Moores
Electron paramagnetic resonance of vanadyl ion doped into a diamagnetic chelate. Oxo-vanadium(IV) in single crystals of bis-(n-methylsalicylaldiminato)nickel(II). *Ibid.*, pp. 1817-20.
- With N. D. Chasteen, R. E. Tapscott, H. So
Triplet state of vanadyl tartrate binuclear complexes and electron paramagnetic resonance of the vanadyl α -hydroxycarboxylates. *Journal of the American Chemical Society*, 91:4675-80.
- With H. So
Chemical information from forbidden hyperfine lines in electron paramagnetic resonance. Copper complexes. *Ibid.*, pp. 2392-94.
- With R. E. Tapscott, I. C. Paul
Stereochemistry of tartrato-bridged binuclear complexes. *Coordination Chemistry Reviews*, 4:323-59.
- With R. A. Strehlow
Shock wave technique in chemical kinetics. *Annual Review of Physical Chemistry*, 20: 247-72.
- BLOOMFIELD, VICTOR A.**, Associate Professor
Articles
Hydrodynamic study of short-range interactions in singlestranded polynucleotides. *Biochemical and Biophysical Research Communications*, 34:765-69.
- With B. R. Jennings
Molecular weight and shape of phycocyanin monomer and aggregates. *Biopolymers*, 8: 297-99.
- BROWN, THEODORE L.**, Professor
Articles
With L. M. Ludwick
Ligand exchange kinetics in methylatobis (dimethylglyoximate) Cobalt(III) complexes. *Journal of the American Chemical Society*, 91:5188-89.
- With W. P. Anderson
A simplified molecular orbital model for octahedral metal carbonyl compounds. *Discussions of the Faraday Society*, 47:37-47.
- With D. L. Tibbetts
Proton magnetic resonance spectra of allyl palladium thiocyanate and mixed halide dimers. *Journal of the American Chemical Society*, 91:1108-12.
- With P. A. Edwards, C. B. Harris, J. L. Kirsch
The pure nuclear quadrupole resonance spectrum of Cobalt-59 in adducts of Cobalt tetracarbonyl, $\text{MX}_2\text{Co}(\text{CO})_4$. *Inorganic Chemistry*, 8:763-67.
- CARTER, H. E.**, Professor and Vice Chancellor for Academic Affairs
Articles
With A. Kisc, J. L. Koob, J. A. Martin
Biochemistry of the sphingolipids. XIX. Studies on an epimerization phenomenon in the oligosaccharids of phytylglycolipid. *Biochemistry*, 8, 1:389-93.
- With D. R. Strobach, J. N. Hawthorne
Biochemistry of the sphingolipids. XVIII. Complete structure of tetrasaccharide phytylglycolipid. *Ibid.*, pp. 383-88.
- With A. Kisc
Countercurrent distribution of inositol lipids of plant seeds. *Journal of Lipid Research*, 10:356.
- With J. L. Koob
Sphingolipids in bean leaves. *Ibid.*, p. 363.
- COATES, ROBERT M.**, Assistant Professor
Articles
With J. P. Chen
A simple method for the preparation of unstable tosylates. *Tetrahedron Letters*, 32: 2705-08.
- With E. F. Bertram
Biogenetic-like rearrangements of isosteviol derivatives: π -route to the atiserene system. *Chemical Communications*, 669:797-98.
- With R. M. Freidinger
Total synthesis of sesquicarene. *Ibid.*, 856: 871-72.
- With R. F. Farney, S. M. Johnson, I. C. Paul
The crystal structure of khusimol *p*-bromobenzoate. *Ibid.*, 1099:999-1000.
- With A. W. W. Ho
Solvolysis of 1-hydroxymethylcyclopropanemethanesulfonic acid sultone, a cyclopropylcarbonyl derivative with an oriented leaving group. *Journal of the American Chemical Society*, 91:7544-45.
- CURTIN, DAVID Y.**, Professor
Articles
With S. R. Byrn
Stereoisomerism at the carbon-oxygen single bond due to hydrogen bonding. *Journal of the American Chemical Society*, 91:1865-66.
- Structures in solution of the yellow and white forms of dimethyl 3,6-dichloro-7,5-dihydroxyterephthalate. *Journal of the American Chemical Society*, 91:6102-06.
- With Z. M. Holubec
Stable stereoisomeric methylenedihydroanthracenes. *Journal of Organic Chemistry*, 34: 3093-96.
- With S. R. Byrn, D. B. Pendergrass, Jr.
Thermal rearrangement of arylazotribenzoyl-methanes in the solid state. *Ibid.*, pp. 3345-49.
- With J. E. Richman
Uncatalyzed 1,3 acyl migration from carbon to nitrogen. *Tetrahedron Letters*, 36:3081-84.
- With A. R. Stein
Alkylation of solid sodium and lithium 2,6-dimethylphenoxide. *Canadian Journal of Chemistry*, 19:3637-39.
- DRAGO, RUSSELL S.**, Professor
Articles
With M. Rettig
Electron delocalization in paramagnetic metallocenes I; NMR contact shifts. *Journal of the American Chemical Society*, 91:1361.
- Electron delocalization in metallocenes II; Extended Hückel molecular orbital calculations. *Ibid.*, p. 3432.
- With J. C. Hill, R. H. Herber
A Mössbauer study of the adducts of $(\text{CH}_3)_3\text{SnCl}$ with Lewis bases. *Ibid.*, p. 1644.
- With K. F. Purcell
Ambiguity in the force fields for PX_3 molecules. *Journal of Chemical Physics*, 48: 3837.
- With H. Petersen, Jr.
A spectrophotometric investigation of iron

- (III) chloride in pyridine. *Inorganic Chimica Acta*, 3:155.
- With T. D. Epley
Enthalpies of hydrogen bonding and changes in $\Delta\nu_{OH}$ for a series of adducts with substituted phenols. *Journal of the American Chemical Society*, 91:2883.
- Calorimetric studies of hydrogen bonding I. *Journal of Paint Technology*, 41:500.
- With S. E. Anderson
Spin delocalization in aromatic complexes of transition metals. *Ibid.*, p. 3656.
- With R. E. Cramer
Extended Hückel calculation of the EPR parameters of the sigma radical cation of nitrosobenzene. *Journal of Chemical Physics*, 51:464-65.
- With M. Wicholas
Contact shift studies of some octahedral benzamide complexes of iron(II), cobalt(II) and nickel(II). *Journal of the American Chemical Society*, 91:5963.
- With R. J. Fitzgerald
Contact shift studies of nickel(II)-2,3-diaminobutane complexes. *Inorganic Chemistry*, 8:2254.
- With R. E. DeSimone
Preparation and nuclear magnetic resonance spectrum of *cis*-dichlorobis(bipyridyl) iridium(III) hexafluorophosphate. *Inorganic Chemistry*, 8:2517.
- DRICKAMER, HARRY G., Professor
Articles
With S. C. Fung, G. K. Lewis, Jr.
High pressure Mössbauer studies. In *Progress in high pressure research*, vol. 3, Academic Press, London, pp. 1-40.
- With D. C. Grenoble
The effect of pressure on the oxidation state of iron-III-hemin and hematin. *Proceedings of the National Academy of Sciences*, 61:1177-83.
- With S. C. Fung
The effect of pressure on the oxidation state of iron-IV-thiocyanate and isothiocyanate. *Ibid.*, 62:38-43.
- The effect of pressure on the C-Fe bond in ferrocyanides and ferricyanides. *Ibid.*, pp. 4353-59.
- The effect of pressure on the C-Fe bond in substituted cyanides. *Ibid.*, pp. 4360-64.
- With C. W. Christoe
A clamp cell for high pressure-low temperature X-ray and Mössbauer studies. *Review of Scientific Instruments*, 40:169-70.
- With W. Holzapfel
The effect of pressure on the oxidation state of iron in $FeCl_2 \cdot 6H_2O$, $FeF_3 \cdot 3H_2O$ and $FeCl_2 \cdot 6NH_3$. *Journal of Chemistry and Physics*, 50:1480-81.
- Effect of pressure on the Noel temperature of cabaltous oxide. *Physics Review*, 184:323-25.
- With R. W. Vaughan, A. R. Champion
High pressure Mössbauer resonance studies with Fe^{57} . *Accounts of Chemical Research*, 2:40-47.
- With G. K. Lewis, Jr., S. C. Fung
The oxidation state of iron at high pressure. *Science*, 163:885-92.
- With C. W. Frank, G. de Pasquali
The effect of pressure on the isomer shift of Fe^{57} (Co^{59}) as an impurity in ZnSe, ZnTe and CdTe. *Journal of Physics and Chemistry of Solids*, 36:2321-23.
- With W. B. Holzapfel, J. Cohen
Effect of pressure on the Curie temperature of PdCo alloys. *Ibid.*, 187:657-60.
- With V. N. Panyushkin, G. de Pasquali
The effect of pressure on the oxidation state of ferrates. *Journal of Chemical Physics*, 51:3305-09.
- DUS, KARL M., Assistant Professor
Articles
With B. E. Bonnelycke, S. L. Miller
Simultaneous analysis of purines, pyrimidines and amino acids. *Analytical Biochemistry*, 27:262-71.
- With T. Flatmark
Studies on the chelate structure of the high potential iron protein of Chromatium. *Biochimica Biophysica Acta*, 180:377.
- ECKERT, CHARLES A., Associate Professor
Articles
Molecular thermodynamics of chemical reactions. In *Applied thermodynamics*, American Chemical Society, Washington, D.C., pp. 9-22.
- With K. F. Wong
Solvent design for chemical reactions. *Industrial and Engineering Chemistry Process Design and Development Quarterly*, 8:568.
- Vapor-liquid equilibria of 1,3-butadiene systems. *Journal of Chemical and Engineering Data*, 14:432.
- FLYGARE, WILLIS H., Professor
Articles
With R. L. Shoemaker
Magnetic susceptibility anisotropy and molecular quadrupole moment of fluoroacetylene. *Chemical Physics Letters*, 2:610-13.
- Magnetic susceptibility anisotropy, molecular quadrupole moment, molecular g-values, and the sign of the electric dipole moment in methylacetylene. *Journal of the American Chemical Society*, 91:5417-22.
- The molecular quadrupole moment, molecular magnetic susceptibilities, and molecular g-values in benzene. *Journal of Chemical Physics*, 51:2988-94.
- With S. L. Hsu, M. K. Kemp, J. M. Pochan, R. C. Benson
The barrier to internal rotation of the methyl group and the identification of the *trans* form of isoprene. *Journal of Chemical Physics*, 50:1482-84.
- With J. M. Pochan, J. E. Baldwin
Microwave spectrum and structure of cyclopropanone. *Journal of the American Chemical Society*, 91:1896-1906.
- With W. Huttner, R. L. Shoemaker, P. D. Foster
Magnetic susceptibility anisotropy, molecular quadrupole moment and the sign of the electric dipole moment in OCS. *Journal of Chemical Physics*, 50:1714-20.
- With R. L. Shoemaker, W. Huttner
Magnetic susceptibility anisotropy, molecular g-value, and molecular quadrupole moment of ^{15}N - ^{15}N - ^{16}O . *Ibid.*, pp. 2414-18.
- With W. Huttner, P. D. Foster
Molecular g-values, magnetic susceptibility anisotropies, and molecular quadrupole moments in ketene. *Ibid.*, pp. 1710-14.
- With W. Huttner
The molecular g-values, magnetic susceptibility anisotropies, and molecular quadrupole moments in fluorobenzene. *Ibid.*, pp. 2863-69.

Molecular g-values, magnetic susceptibility anisotropy, second moment of the charge distribution, and molecular quadrupole moments in acetaldehyde. *Transactions of the Faraday Society*, 65:1953-63.

With D. H. Sutter, W. Huttner

Molecular g-values, magnetic susceptibility anisotropies, and molecular quadrupole moments in ethylene oxide. *Ibid.*, pp. 2869-74.

With D. H. Sutter

The molecular g-values, magnetic susceptibility anisotropies, and the molecular quadrupole moments in ethylene sulfide. *Molecular Physics*, 16:153-64.

The molecular g-values, magnetic susceptibility anisotropy, second moment of the charge distribution, and molecular quadrupole moments in furan and thiophene. *Journal of the American Chemical Society*, 91:4063-74.

The molecular g-values, magnetic susceptibility anisotropies, second moment of the charge distribution, and molecular quadrupole moments in ethylenimine and pyrrole. *Journal of the American Chemical Society*, 91:6895-6907.

With S. G. Kukolich

Molecular g-values, magnetic susceptibility anisotropies, second moment of the charge distribution, and molecular quadrupole moments in formic acid. *Journal of the American Chemical Society*, 91:2433-40.

Molecular g-values, magnetic susceptibilities, molecular quadrupole moments, and spin-rotation interaction in $^{15}\text{NH}_3$. *Molecular Physics*, 17:127-36.

With M. K. Kemp

The microwave spectrum, hindered rotation potential function, and dipole moment in 1-methylcyclopropene. *Ibid.*, pp. 3163-72.

With R. S. Scott

Microwave spectroscopy of OH^- ions in the KCl and NaCl lattices. *Physical Review*, 182:445-53.

With R. G. Stone

The microwave spectrum and ^{35}Cl nuclear quadrupole coupling in chlorotrifluoroethylene. *Journal of Molecular Spectroscopy*, 32:233-43.

With R. P. Blickensderfer, J. H. S. Wang

Molecular g-values, magnetic susceptibility anisotropies, molecular quadrupole moments, and the second moment of the electric charge distribution in OCF_2 , CH_2CF_2 , cis- CHFCHF , and CH_2F_2 . *Journal of Chemical Physics*, 51:3196-3205.

With S. L. Hsu

The microwave spectrum, barrier to internal rotation of the methyl group, and molecular dipole moment of 2-methyl-1-buten-3-yne. *Journal of Molecular Spectroscopy*, 32:375-82.

The microwave spectra, barriers to internal rotation of the methyl group, and molecular electric dipole moments in trans- and cis-1,3-pentadiene. *Journal of Chemical Physics*, 52:1053-60.

Microwave spectrum and the barrier to internal rotation of the methyl group in trans-crotonaldehyde. *Chemical Physics Letters*, 4:317-23.

With R. C. Benson

Molecular g-values, magnetic susceptibilities, molecular quadrupole moments, and sign of the electric dipole moment in cyclopropene. *Ibid.*, pp. 3087-97.

The molecular Zeeman effect in propene and comparison of the magnetic susceptibility

anisotropies with cyclopropene and other small ring compounds. *Chemical Physics Letters*, 4:141-44.

With J. M. Pochan

The direct measurement of the magnetic susceptibility tensor elements in 1,3-cyclohexadiene and comparison with benzene and other small ring compounds. *Journal of the American Chemical Society*, 91:5928-30.

With J. M. Pochan, R. G. Stone

The molecular g-values, magnetic susceptibilities, molecular quadrupole moments, and second moments of the electronic charge distribution in OF_2 , O_3 , and SO_2 . *Journal of Chemical Physics*, 51:4278-87.

With D. VanderHart

The molecular Zeeman effect in CH_3Cl , CH_3Br , and CH_2I . *Molecular Physics*, 18:77-93.

With R. G. Stone, J. M. Pochan

Zeeman studies including the molecular g-values, magnetic susceptibilities, and molecular quadrupole moments in phosphorus and nitrogen trifluoride, and phosphoryl, thionyl, and sulfur fluoride. *Inorganic Chemistry*, 8:2647-58.

With R. C. Benson, R. S. Scott

The molecular g-values, magnetic susceptibility anisotropies, and molecular quadrupole moments in propynal. *Journal of Physical Chemistry*, 73:4359-68.

GOODISMAN, JERRY, Assistant Professor

Articles

Bare-nucleus and screened-nucleus perturbation theory for He_2 . *Journal of Chemical Physics*, 50:903.

The isoelectronic principle and the accuracy of binding energies in the Hückel method. *Journal of the American Chemical Society*, 51:6552.

On the partitioning of energy for atoms, ions, and molecules. *Theoretica Chimica Acta*, 15:165.

Explicitly correlated wave function for LiH by perturbation theory. *Journal of Chemical Physics*, 51:3540.

GUNSALUS, IRWIN C., Professor

Articles

With W. H. Orme-Johnson, R. E. Hansen, H. Beinert, J. C. M. Tsibris, and others
Metal site of nonheme (iron sulfur) proteins. *Science*, 160:441.

With B. N. Ganguli, M. Katagiri, J. C. M. Tsibris, P. Debrunner, H. Frauenfelder

Oxygenation: a specific soluble cytochrome P-450 coupled enzyme complex. *Ibid.*, p. 438.

With C. F. Gunsalus, A. M. Chakrabarty, S. Sykes, I. P. Crawford

Fine structure mapping of the tryptophan genes in *Pseudomonas putida*. *Genetics*, 60:419.

With U. Muller-Eberhard, H. H. Liem, C. A. Yu

Removal of heme from cytochrome P-450_{CAM} by hemopexin and apomyoglobin associated with loss of P-450 hydroxylase activity. *Biochemical and Biophysical Research Communications*, 35:229.

With A. M. Chakrabarty

The autonomous replication of a defective transducing phage in *Pseudomonas putida*. *Virology*, 38:92-104.

- Defective phage and chromosome mobilization in *Pseudomonas putida*. *Proceedings of the National Academy of Sciences*, 64:1217-73.
- With C.-A. Yu
 Monooxygenase VII, Camphor ketolactonase I and the role of three protein components. *Journal of Biological Chemistry*, 244: 6149-52.
- GUTOWSKY, HERBERT S., Professor
 and Head of Department
- Articles
 With E. S. Gore
 The dissociation of lithium and sodium tetramethylaluminate in solution. *Journal of Physical Chemistry*, 73:2515.
- With D. VanderHart, T. C. Farrar
 NMR study of BaFPO: ^{31}P and ^{19}F chemical-shift anisotropies and the absolute sign of the F-P coupling constant. *Journal of Chemical Physics*, 50:1058-65.
- With Cynthia J. Jameson
 Systematic trends in the coupling constants of directly bonded nuclei. *Ibid.*, 51:2790-2803.
- HAGER, LOWELL P., Professor
- Articles
 With J. A. Thomas, D. R. Morris
 Studies on the relationship of chloroperoxidase-halide and chloroperoxidase hydrogen peroxide complexes to the mechanism of the halogenation reaction. In *Biochemistry of the phagocytic process*, ed. by J. Schultz, North Holland Publishing Co., Amsterdam, pp. 67-89.
- With P. K. Warne
 Heme sulfuric anhydrides as structural probes for heme proteins. *Federation Proceedings*, 28:603.
- With M. Bowman
 Glycoprotein synthesis and excretion by *Caldariomyces fumago*. *Bacteriological Proceedings*, P44:124.
- With J. A. Thomas
 Molecular iodine as an obligate intermediate in the iodination of tyrosine by chloroperoxidase. *Biochemical and Biophysical Research Communication*, 35:444-50.
- HAIGHT, GILBERT P., JR., Professor
- Articles
 With S.-A. Frennsson, J. K. Beattie
 Kinetics and mechanism of the reaction between hydrogen chromate and dihydrogen phosphite. *Acta Chemica Scandinavica*, 23: 2377.
- With A. A. Bergh
 Kinetics and mechanism of the reduction of molybdenum(V) by Tin(II) in concentrated hydrochloric acid solutions. *Inorganic Chemistry*, 8:189.
- With T. J. Huang
 Electron spin resonance studies of monomer-dimer equilibria involving molybdenum(V) complexes with cysteine and glutathione. *Chemical Communications*, pp. 985-86.
- Bulletins and Technical Reports
 Content of the freshman chemistry course, part I. In *Symposium on teaching of freshman chemistry*, ed. by Joesten, Jones and Dilts, Vanderbilt University, Nashville, Tennessee, pp. 1-30.
- HANRATTY, THOMAS J., Professor
- Articles
 With K. R. Jolls
 Use of electrochemical techniques to study mass transfer rates and local skin friction to a sphere in a dumped bed. *American Institute of Chemical Engineers Journal*, 15:199.
- With D. E. Woodmansee
 Base film over which roll waves propagate. *Ibid.*, p. 712.
- Mechanism for the removal of droplets from a liquid surface by a parallel air flow. *Chemical Engineering Science*, 24:299.
- With J. S. Son
 Numerical solution for the flow around a cylinder at Reynolds numbers of 40, 200 and 500. *Journal of Fluid Mechanics*, 35:353.
- With K. K. Sirkar
 The limiting behavior of the transverse turbulent velocity fluctuations close to a wall. *Industrial and Engineering Chemistry Fundamentals*, 8:189.
- With D. P. Siegwarth, R. D. Mikesell, T. C. Readal
 Effect of secondary flow on the temperature field and primary flow in a heated horizontal tube. *International Journal of Heat and Mass Transfer*, 12:1535.
- A course in momentum transport. *Chemical Engineering Education*, 3:184.
- HUDSON, JOHN L., Associate Professor
- Articles
 With G. M. Homsy
 Centrifugally driven thermal convection in a rotating cylinder. *Journal of Fluid Mechanics*, 35:33.
- Unsteady heat transfer from a rotating disk. *Journal of Heat Transfer*, 91c:162.
- With J. Heicklen, L. Armi
 Theory of carbon formation in vapor-phase pyrolysis II. Variable concentration of active species. *Carbon*, 7:365.
- HUMMEL, JOHN P., Professor
 See Physics.
- JONAS, JIRI, Associate Professor
- Articles
 With T. M. DiGennaro
 Nuclear spin-lattice relaxation in phenylacetylene. *Journal of Chemical Physics*, 50: 52-58.
- Anisotropic molecular reorientation in methyl- d_3 -acetylene in the liquid state. *Ibid.*, pp. 2392-97.
- With R. A. Assink
 Calculation of rotational diffusion constants for anisotropic reorientation by the modified hill method. *Ibid.*, 73:2445-47.
- Reviews
 Electron spin resonance in chemistry, by P. B. Ayscough. *Analytical Chemistry*, 41: 105A.
- Nuclear magnetic resonance spectroscopy, by F. A. Bovey. *Science*, 165:579.
- JUVET, RICHARD S., Associate Professor
- Articles
 With R. S. Levy
 Standardization of pyrolysis-gas chromatography techniques. In *Gas chromatography*, ed. by C. L. A. Harbourn and R. Stock, Elsevier, New York, pp. 410-14. 1968.
- With V. R. Shaw, M. A. Khan
 Gas chromatographic evaluation of equilibria in fused salts. I. The tetrachloroaluminate and tetrachloroferrate systems. *Journal of the American Chemical Society*, 91, 14: 3788-92.

With J. Pecsek

Structural studies of nonvolatile metal chelates by gas chromatography. *Analytical Chemistry*, 41, 11:1456-58.

Reviews

Analytical reaction gas chromatography by V. G. Berezkin. *Science*, 165, 3897:1003.

KATZENELLENBOGEN, JOHN A., Assistant Professor

Articles

With E. J. Corey

A new stereospecific synthesis of trisubstituted and tetrasubstituted olefins. The conjugate addition of dialkyl-copper-lithium reagents to α , β -acetylenic esters. *Journal of the American Chemical Society*, 91: 1851-52.

With E. J. Corey, K. Achiwa

Total synthesis of *dl*-sirenin. *Ibid.*, pp. 4318-20.

LAITINEN, HERBERT A., Professor

Articles

Analytical chemistry in Yugoslavia. *Analytical Chemistry*, 41, 8:24A-29A.

With J. H. Propp

Electrochemical reduction products of Cr(VI) in molten LiCl-KCl eutectic. *Ibid.*, 4: 644-49.

LEONARD, NELSON J., Professor

Articles

Roger Adams. *Journal of the American Chemical Society*, 91:7A-10A.

With K. Golankiewicz

Thermolysis of substituted 1-acetoxybenzotriazoles. Carbon-to-oxygen migration of an alkyl group. *Journal of Organic Chemistry*, 34:359-65.

With T. Sato

A transannular route for stereospecific synthesis: (\pm)-isoretronecanol. *Ibid.*, pp. 1066-70.

With F. Skoog

Sources and structure: activity relationships of cytokinins. *6th International Conference on Plant Growth Substances*, Ottawa, Canada, pp. 1-18.

With R. F. Lambert

Synthetic spectroscopic models related to coenzymes and base pairs. VI. The synthesis of (ω -arylalkyl)-6, 7-dimethylisalloxazines, spectroscopic model compounds related to FAD. *Journal of Organic Chemistry*, 34:3240-48.

With R. A. Swaringen, Jr.

Cyclization of N⁶-substituted adenines to produce compounds of the pentaazasteroid type. *Ibid.*, pp. 3814-19.

With D. R. Crist

Kleine geladene heterocyclen. *Angewandte Chemie*, 81:953-66.

Small charged heterocycles. *Angewandte Chemie International Edition*, 8:962-74.

With S. M. Hecht, A. S. Gupta

Position of uridine thiation: the identification of minor nucleosides from tRNA by mass spectrometry. *Biochimica et Biophysica Acta*, 182:444-48.

Mass spectra of nucleoside components of tRNA. *Analytical Biochemistry*, 30:244-70.

With S. M. Hecht, F. Skoog, R. Y. Schmidt

Cytokinins: synthesis, mass spectra, and biological activity of compounds related to

zeatin. *Proceedings of the National Academy of Science U.S.A.*, 63:175-82.

With H. Iwamura, J. Eisinger

Synthetic spectroscopic models related to coenzymes and base pairs. IV. Stacking interactions in tRNA. The anticodon-adjacent base. *Ibid.*, 64:352-59.

With K. Golankiewicz, R. S. McCredie, S. M. Johnson, I. C. Paul

Synthetic spectroscopic models related to coenzymes and base pairs. III. A 1,1'-trimethylene-linked thymine photodimer of *cis-syn* structure. *Journal of the American Chemical Society*, 91:5855-62.

With S. M. Hecht, W. J. Burrows, D. J. Armstrong, F. Skoog, J. Occolowitz
Cytokinin in wheat germ tRNA: 6-(4-hydroxy-3-methyl-2-butenylamino)-2-methylthio-9- β -D-ribofuranosylpurine. *Science*, 166:1272-74.

With W. J. Burrows, D. J. Armstrong, F. Skoog, S. M. Hecht, and others

The isolation and identification of two cytokinins from *E. coli* sRNA. *Biochemistry*, 8:3071-76.

With S. M. Hecht, J. Occolowitz, W. J. Burrows, D. J. Armstrong, and others

Cytokinins: Isolation and identification of 6-(3-methyl-2-butenylamino)-9- β -D-ribofuranosylpurine (2iPA) from yeast cysteine tRNA. *Biochemical and Biophysical Research Communications*, 35:205-09.

LOMBARDI, JOHN R., Assistant Professor

Articles

Dipole moments of the lowest singlet $\pi^* \leftarrow \pi$ states in phenol and aniline. *Journal of Chemical Physics*, 50:3780-83.

With W. Klemperer, H. Basch, N. Keubler, M. Robin

Optical spectra of small rings I. The $n \rightarrow \pi^*$ transition of difluorodiazirine. *Ibid.*, 51: 33-44.

With A. Mani

Electronic spectrum of the 2838 Å system of indole. *Journal of Molecular Spectroscopy*, 31:308-17.

With K. T. Huang

Dipole moments of the lowest singlet $\pi^* \leftarrow \pi$ states in *p*-fluoroaniline and *p*-fluorophenol. *Journal of Chemical Physics*, 51:1228-30.

MALMSTADT, HOWARD V., Professor

Books

With C. G. Enke

Digital electronics for scientists. W. A. Benjamin, Inc., New York, 545 pp.

Articles

With M. Franklin, G. Horlick

Basic and practical considerations in utilizing photon counting for quantitative spectrochemical methods. *Analytical Chemistry*, 41, 1:2-10.

With A. C. Javier, S. Crouch

An automated fast reaction-rate system for quantitative phosphate determinations in the millisecond range. *Ibid.*, 2:239-43.

With E. Piepmeier

Spectrochemical investigation of the laser plume from an aluminum alloy target by time- and spatially-resolved emission and atomic absorption measurements. *Ibid.*, 6: 700-06.

With G. M. Hieftje

A new approach to flame spectrometric analy-

sis utilizing isolated droplets of sample solution. *Ibid.*, 13:1735-44.

MARCUS, RUDOLPH A., Professor

Articles

Unusual slopes of free energy plots in kinetics. *Journal of the American Chemical Society*, 91:7224-25.

With S. Glicker

Rapid gas phase reactions: amines and boron trifluoride. II. Pressure dependence of rate constant. *Ibid.*, pp. 7607-10.

MARTIN, JAMES C., Professor

Articles

With J. H. Hargis

The cage recombination of benzyloxy radicals: an important pathway in the decomposition of benzoyl peroxide. *Journal of the American Chemical Society*, 91:5399-5400.

With B. R. Ree

Destabilization of a *t*-alkyl cation by an α -cyclopropyl substituent. Perpendicularly twisted cyclopropylcarbinyl and allylic tosylates. *Ibid.*, pp. 5882-83.

With A. G. Ludwick

Stereochemistry of the radical addition of polyhalomethanes to bicyclo[2.2.1]heptenyl systems. *Journal of Organic Chemistry*, 34:4108-15.

With M. J. Sabacky, S. M. Johnson, I. C. Paul

Steric effects in *ortho*-substituted triarylmethanes. *Journal of the American Chemical Society*, 91:7542-44.

MOELLER, THERALD, Professor

Articles

With C. W. Allen, J. B. Faught, I. C. Paul

Aryl-substituted phosphonitrilic fluorides. IV. The crystal and molecular structures of 1,1-diphenylphosphonitrilic fluoride trimer. *Inorganic Chemistry*, 8:1719-27.

With E. R. Birnbaum

Observations on the rare earths. LXXXII. Nuclear magnetic resonance and calorimetric studies of complexes of the tripositive ions with substituted pyridine molecules. *Journal of the American Chemical Society*, 91:7274-80.

With D. L. Campbell

Observations on the rare earths. LXXXI. Formation constants of tropolone chelates of the tripositive ions at 25°C. *Journal of Inorganic Nuclear Chemistry*, 31:1077-82.

With J. H. Forsberg

Observations on the rare earths. LXXIX. The syntheses and properties of ethylenediamine chelates of the tripositive lanthanide ions. *Inorganic Chemistry*, 8:883-88.

Observations on the rare earths. LXXX. The thermodynamic stabilities of ethylenediamine chelates of the tripositive lanthanide ions in anhydrous acetonitrile. *Ibid.*, pp. 889-92.

PAUL, IAIN C., Associate Professor

Articles

With P. C. Thomas, T. Williams, G. Grethe, M. Uskokovic

The structures of two diastereoisomeric sulfonoxides. 3,5-dihydro-3-methyl-4, 1-benzothiazepin-2(1H) one 4-oxides. *Journal of Organic Chemistry*, 34:365-71.

With K. T. Go

Crystal and molecular structure of 5-methyl-1-thia-5-azacyclooctant-1-oxide perchlorate. *Journal of the Chemical Society, B*, pp. 33-42.

With N. D. Chasteen, R. L. Belford

The crystal structure and electronic spectrum of a vanadyl α -hydroxycarboxylate complex, sodium tetraethylammonium bis(benzilato)oxovanadium(IV) diisopropanolate. *Inorganic Chemistry*, 8:408-18.

With S. M. Johnson

Crystal and molecular structure of 1-acetyl-1-thionia-5-thiacyclooctane perchlorate. *Tetrahedron Letters*, 3:177-81.

The crystal and molecular structure of the perhydromethiodide of an unsymmetrical *N*-carbomethoxyazepine dimer. *Journal of the Chemical Society, B*, pp. 1244-47.

With J. S. McKechnie

Molecular structure of nordihydro uaiarectic acid. *Journal of the Chemical Society, B*, pp. 699-702.

With T. J. Katz, N. Acton

The reaction of complexes of rhodium(I) chloride with norbornadiene. *Journal of the American Chemical Society*, 91:206-08.

With S. M. Johnson, J. H. Barrett,

L. A. Paquette

The thermal (6+4) π cocycloaddition of *N*-carbalkoxyazepines. Crystal structure analysis of a derived monomethiodide. *Chemical Communications*, pp. 6-7.

With P. L. Johnson

A heterocycle with a very short (2.034 Å) S—O intramolecular distance. *Journal of the American Chemical Society*, 91:781-82.

Unequal S-S bond lengths in a symmetrically-substituted thiathiophthen. *Chemical Communications*, pp. 1014-15.

With R. E. Tapscott, R. L. Belford

Stereochemistry of tartrato(4-)-bridged binuclear complexes. *Coordination Chemistry Reviews*, 4:323-59.

With S. M. Krueger, J. A. Kapecki,

J. E. Baldwin

Crystal and molecular structure of 4-chloro-2-methyl-3-phenylcyclobut-2-enone. *Journal of the Chemical Society, B*, pp. 796-802.

With R. L. Belford, N. D. Chasteen,

M. A. Hitchman, P.-k. Hon, C. E. Pfluger

Crystal and molecular structure of bis-benzoylacetonatozinc monoethanolate and X-ray data on related crystals. *Inorganic Chemistry*, 8:1312-14.

With C. W. Allen, J. B. Faught, T. Moeller

Aryl-substituted phosphonitrilic fluorides. IV. The crystal and molecular structure of 1,1-diphenylphosphonitrilic fluoride trimer. *Ibid.*, pp. 1719-27.

With S. M. Johnson, M. G. Newton

The crystal and molecular structure of an unsymmetrical 6a-thiathiophthen: The single crystal X-ray analysis of 5-p-bromo-phenyl-3-benzoyl-2-methylthio-6a-thiathiophthen. *Ibid.*, pp. 986-93.

With N. J. Leonard, K. Golankiewicz,

R. S. McCredie, S. M. Johnson

Synthetic spectroscopic models related to coenzymes and base pairs. III. A 1, *P*-trimethylene-linked thymine photodimer of *Cis-syn* structure. *Journal of the American Chemical Society*, 91:5855-62.

With R. M. Coates, R. F. Farney,
S. M. Johnson

The crystal structure of khusimol *p*-bromobenzoate. *Ibid.*, pp. 999-1000.

With S. M. Johnson, J. C. Martin,
M. J. Sabacky

Steric effects in *o*-substituted triarylmethanes. *Journal of the American Chemical Society*, 91:7542-44.

PIRKLE, WILLIAM H., Associate Professor

Articles

With M. Dines

The bromination and electrophilic reactions of 2-pyrone. *Journal of Organic Chemistry*, 34:2239-44.

Nmr spectra of 2-pyrone and its derivatives. *Journal of Heterocyclic Chemistry*, 6:1-3.

On the nitration of 2-pyrone. *Journal of Heterocyclic Chemistry*, 6:313-15.

With S. D. Beare, T. G. Burlingame

Optically active nmr solvents. VIII. Resolution of 1,1,1-trifluoro-phenylethanol. *Ibid.*, pp. 470-71.

With S. G. Smith, G. F. Koser

Stereospecificity and wave-length dependence in the photo-chemical rearrangement of spiro[2.5]octa-4, 7-dien-6-ones to quinone methides. *Journal of the American Chemical Society*, 91:1580-82.

With L. H. McKendry

Photochemical reactions of 2-pyrone and thermal reactions of the 2-pyrone photoproducts. *Ibid.*, pp. 1179-86.

With D. I. Chamot

Static bridged carbonium ions. Direct nmr observations of stereochemically distinct ions. *Journal of the American Chemical Society*, 91:1569-71.

With S. D. Beare, R. L. Muntz

Optically active nmr solvents X. Enantiomeric nonequivalence of sulfenamides, sulfonates, sulfites, thiosulfonates, phosphine oxides and amine oxides. *Ibid.*, p. 4575.

With S. D. Beare

Optically active nmr solvents IX. Direct determinations of optical purities and correlations of absolute configurations of α -amino acids. *Ibid.*, pp. 5150-55.

QUINN, JOHN A., Professor

Articles

With L. M. Blair

The onset of cellular convection in a fluid layer with time-dependent density gradients. *Journal of Fluid Mechanics*, 36:385-400.

With W. J. Petzny

Calibrated membranes with coated pore walls. *Science*, 166:751-53.

RINEHART, KENNETH L., JR., Professor

Books Edited

Organic synthesis, by Robert E. Ireland, In *Foundations of modern organic chemistry series*, Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 147 pp.

Articles

Comparative chemistry of the aminoglycoside and aminocyclitol antibiotics. *Journal of Infectious Diseases*, 119:345-50.

With D. E. Bublitz

The synthesis of substituted ferrocenes and other π -cyclopentadienyl-transition metal compounds. *Organic Reactions*, 17:1-154.

With W. T. Shier, D. Gottlieb

The preparation of new antibiotics using a

mutant of *Streptomyces fradiae*. *Proceedings of the National Academy of Science U.S.A.*, 63:198-204.

SCHMITZ, ROGER A., Associate Professor

Articles

With R. C. Lindberg

On the multiplicity of steady states in boundary layer problems with surface reaction. *Chemical Engineering Science*, 24:1113-29.

With R. B. Root

An experimental study of steady state multiplicity in a loop reactor. *American Institute of Chemical Engineers Journal*, 15, 5:670-79.

With Y. G. Kim

A further note on some properties of autocatalytic reactions. *Chemical Engineering Science*, 24:1635-37.

SCHROEPFER, GEORGE J., Associate Professor

Articles

With W. Lee, R. Kammerer, B. N. Lutsky, J. A. McCloskey

Studies on the mechanism of the enzymatic conversion of Δ^8 -cholesten-3 β -ol to Δ^7 -cholesten-3 β -ol. *Journal of Biological Chemistry*, 244:2033-40.

With B. N. Lutsky

Isolation of $\Delta^8(14)$ -cholesten-3 β -ol from rat skin. *Biochemical and Biophysical Research Communications*, 35:288-93.

With W. Lee, B. N. Lutsky

5 α -Cholest-8(14)-en-3 β -ol, a possible intermediate in the biosynthesis of cholesterol. Enzymatic conversion to cholesterol and isolation from rat skin. *Journal of Biological Chemistry*, 244:5440-48.

SECRET, DON, Associate Professor

Articles

Trends. In *IBM scientific computing symposium on computers in Chemistry*, IBM, White Plains, New York, pp. 197-212.

Linear collision of a classical harmonic oscillator with a particle at high energies. *Journal of Chemical Physics*, 51:421-25.

SHAKHASHIRI, BASSAM Z., Visiting

Assistant Professor

Articles

With G. Gordon

The oxidation of tris(1, 10-phenanthroline) iron(II) ion by chlorate and chlorite dioxide. *Journal of the American Chemical Society*, 91:1103-07.

SMITH, STANLEY G., Associate Professor

Articles

With W. H. Pirkle, G. F. Koser

Stereochemistry and wave-length dependence in the photochemical rearrangement of spiro[2.5]octa-4,7-diene-6-ones to quinone methides. *Ibid.*, pp. 1580-82.

With D. J. W. Goo

Effect of the leaving group on relative reactivity and products in solvolysis. *Journal of Organic Chemistry*, 34:3127-31.

SNYDER, HAROLD R., Research Professor

and Associate Dean of Graduate College

Articles

With J. C. Callin

Preparation and reactions of *o*-(cyanomethyl)-benzeneboronic acid. *Journal of Organic Chemistry*, 34:1660-63.

- Synthesis, reactions, and mass spectral studies of some cyclic amine-boranes and their catechol derivatives. *Ibid.*, pp. 1664-68.
- With W. M. Cummings, C. H. Cox
Arylboronic acids. A medium-size ring containing boronic ester groups. *Ibid.*, pp. 1669-74.
- With K. E. Whitaker, B. E. Galbraith
Cyanation and hydrocyanation of unsaturated hydrocarbons. II. Oxidation and reduction of the intermediate. *Ibid.*, pp. 1411-19.
- STUCKY, GALEN D., Associate Professor
Articles
With C. M. Flynn, Jr.
Sodium 6-niobo(ethylenediamine)cobaltate(III) and its chromate(III) analog. *Inorganic Chemistry*, 8:178.
Heteropoly-niobate complexes of manganese(IV) and nickel(IV). *Ibid.*, p. 332.
The crystal structure of sodium 12-niobomanganate(IV), $\text{Na}_{12}\text{MnNb}_{12}\text{O}_{38}\cdot 50\text{H}_2\text{O}$. *Ibid.*, p. 335.
- With J. L. Atwood
The stereochemistry of polynuclear compounds of the main group elements. VII. The structure of octamethylaluminummonomagnesium. *Journal of the American Chemical Society*, 91:2538.
The stereochemistry of polynuclear compounds of the main group elements. IX. The structure of bis(dimethylamino)-beryllium and its reaction with trimethylaluminum. *Journal of the American Chemical Society*, 91:4426.
- With V. R. Magnuson
The stereochemistry of polynuclear compounds of the main group elements. VIII. The crystal structure of bis-[2-cimethyl-aminoethyl(methyl)amino]-di-(methylmagnesium). *Inorganic Chemistry*, 8:1427.
The stereochemistry of polynuclear compounds of the main group elements. X. $(\text{CH}_3)_5\text{Al}_2\text{N}(\text{C}_6\text{H}_5)_2, \mu$ -diphenylamino- μ -methyl-tetra-methylaluminum. *Ibid.*, p. 2544.
- With D. Brauer
The stereochemistry of polynuclear compounds of the main group elements. XI. Dimethyl-methylthioaluminum, $[(\text{CH}_3)_2\text{AlSCH}_3]_n$, a new type of stereochemistry for an organo-aluminum compound. *Ibid.*, p. 5462.
- With F. Ross
The crystal and molecular structure of trichloroquo-n-methyl-diazabicyclooctonium nickelate(II) — A high-spin five-coordinate complex of Ni(II) with monodentate ligands. *Ibid.*, p. 2734.
- SWITZER, ROBERT L., Assistant Professor
Articles
Regulation and mechanism of phosphoribosyl-pyrophosphate synthetase I. Purification and properties of the enzyme from *Salmonella typhimurium*. *Journal of Biological Chemistry*, 244, 11:2854-63.
With B. G. Baltimore, H. A. Barker
Hydrogen transfer between substrates and deoxyadenosylcobalamin in the glutamate mutase reaction. *Ibid.*, 19:5263-68.
- WEBER, GREGORIO, Professor
Articles
With S. R. Anderson
The effects of energy transfer and rotational diffusion upon the fluorescence polarization of macromolecules. *Biochemistry*, 8:361.
Fluorescence polarization of the complexes of 1-anilino-8-naphthalene sulfonate with bovine serum albumin. Evidence for preferential orientation of the ligand. *Ibid.*, p. 371.
With R. D. Spencer, W. Vaughan
Dependence of fluorescence lifetime upon the emission and absorption spectra. In *Molecular luminescence*, ed. by E. C. Lim, W. A. Benjamin Co., New York, p. 607.
With R. D. Spencer
Measurement of subnanosecond fluorescence lifetimes with cross-correlation phase fluorometer. *Annals New York Academy of Science*, 158:361.
With J. A. Knopp
Fluorescence polarization of pyrenebutyric-bovine serum albumin and pyrenebutyric-human macroglobulin conjugates. *Journal of Biological Chemistry*, 214:6309-15.
With A. B. Rawitch, E. Hudson
The rotational diffusion of thyroglobulin — a study of thyroglobulin conjugated with pyrenebutyrate and with dimethylaminonaphthalene-sulfonate. *Ibid.*, 244:6543-57.
- WESTWATER, JAMES W., Professor
Articles
Nucleate pool boiling. In *Advanced heat transfer*, ed. by B. T. Chao, University of Illinois Press, Urbana, pp. 217-32.
Dropwise condensation. *Ibid.*, pp. 233-62.
- WOOD, JOHN M., Assistant Professor
Articles
With M. M. Seidman, Anne Toms
Influence of side-chain substituents on the position of cleavage of the benzene ring in *Pseudomonas fluorescens*. *Journal of Bacteriology*, 97:1192.
With F. S. Kennedy, T. Buckman
Carbenoid intermediates in the photolysis of haloalkylcobalamins. *Biochimica et Biophysica Acta*, 117:661.
With T. Buckman, F. S. Kennedy
Spin labeling of vitamin B₁₂. *Biochemistry*, 8: 4437.
With Anne Toms
Degradation of trans ferulic acid and α -Conidendrin by pseudomonads. *Bacterial Proceedings*, 148:101.
- WOODY, ROBERT W., Assistant Professor
Articles
Optical properties of polypeptides in the β -conformation. *Biopolymers*, 8, 5:669.
With Ming-Chu Hsu
Origin of the rotational strength of heme transitions in myoglobin. *Journal of the American Chemical Society*, 91, 13:3679.
With C. W. Deutsche, D. A. Lightner, A. Moscovitz
Optical activity. *Annual Reviews of Physical Chemistry*, 20:407.
- Reviews
Molecular associations in biology, ed. by Bernard Pullman. *Science*, 164, 3877:289.
- YANKWICH, PETER E., Professor
Articles
With W. J. Kass
Three-element reaction coordinates and intramolecular kinetic isotope effects. *Journal of Physical Chemistry*, 73:3722-35.
- YARDLEY, JAMES T., Assistant Professor
Articles
Non-resonant vibration-to-vibration energy

transfer due to dipole-dipole interactions. *Journal of Chemical Physics*, 50:2464-66.

DOCTORAL DISSERTATIONS

- Allen, Fritz S. (R. L. Belford, Adviser), The phenomenology of electric dichroism.
- Anderson, Stanley E., Jr. (R. S. Drago, Adviser), A study of electron delocalization and bonding in some paramagnetic bisarene complexes.
- Attermeyer, Mary L. (R. A. Marcus, Adviser), Classical vibrational-translational energy transfer in the perturbed stationary state approximation.
- Aycock, Robert F. (H. R. Snyder, Adviser), The reaction of cyanide ion with aromatic nitro compounds in aprotic solvents.
- Beare, Steven D. (W. H. Pirkle, Adviser), NMR spectroscopy in chiral solvents.
- Bender, Paul E. (D. Y. Curtin, Adviser), Structural assignments and restricted rotation in cyclobutylidiamethanes and *CIS*-1,2-diarylcyclopentanes.
- Bersted, Bruce H. (R. L. Belford, Adviser), The crystal, molecular, and electronic structure of vanadyl (IV) 2,6-lutidine tetrahydrate.
- Bragg, James R. (J. W. Westwater, Adviser), Film boiling of immiscible mixtures on a horizontal plate.
- Brittelli, David R. (H. R. Snyder, Adviser), Synthetic studies in the thieno(2,3-*b*) pyrrole series.
- Brown, Dennis G. (R. S. Drago, Adviser), Spectroscopic studies on molecular interactions.
- Burke, Aaron R. (L. J. Todd, Adviser), Ar-saccharones: a new series of heteroatom carboranes.
- Campbell, Donald L. (T. Moeller, Adviser), Observations on the rare earths: thermodynamic studies of tropolonate complexes of the lanthanide ions.
- Cares, William R. (J. G. Kay, Adviser), Participation of alumina in heterogeneous catalysis.
- Chaffin, Tommy L. (P. Beak, Adviser), The selective alkylation of rigid cyclohexanone systems.
- Chamot, Dennis I. (W. H. Pirkle, Adviser), Reactions of two spiro(2.5) octa-4,7-dien-6-ones and a spiro(2.5) octa-1,4,7-trien-6-one.
- Chasteen, Norman D. (R. L. Belford, Adviser), Structural, electronic, and magnetic properties of the vanadyl and copper alpha-hydroxycarboxylates.
- Chen, Alice A. (V. Bloomfield, Adviser), Optical rotatory properties of polypeptides.
- Cline, Linda J. (H. V. Malmstadt, Adviser), Basic and practical signal-to-noise considerations in Laser-Raman spectrometry.
- Cramer, Roger E. (R. S. Drago, Adviser), An extended Hückel investigation of unpaired spin delocalization in sigma systems.
- Cunningham, Robert E., Jr. (J. C. Martin, Adviser), Synthetic approaches to the dehydrotropylum ion.
- DeCraene, Denis F. (J. C. Bailar, Jr., Adviser), An investigation of the chronopotentiometric oxidation of bimetallic complexes of divalent platinum and tin.
- Diebner, Robert L. (J. G. Kay, Adviser), The production and study of titanium monohalides by flash heating.
- Dombchik, Steven A. (J. C. Martin, Adviser), Solvent cage effects in aliphatic diacyl peroxide decompositions.
- Duane, Warren C. (J. W. Hastings, Adviser), NAD(P)H:FMN oxidoreductase of *Photobacterium fischeri*: its role in bacterial bioluminescence.
- Falkner, Fred C. (K. L. Rinehart, Adviser), Studies on the biosynthesis of Neomycin.
- Faught, John B. (T. Moeller, Adviser), Structural studies of some phosphonitric compounds.
- Feiertag, Robert H. (N. J. Leonard, Adviser), Reactions of small charged rings.
- Franklin, Michael L. (H. V. Malmstadt, Adviser), Submicrosecond time- and spatially-resolved investigations of atomic emission produced from an aluminum target by a megawatt pulsed laser with and without auxiliary spark excitation.
- Fung, Shun C. (H. G. Drickamer, Adviser), High pressure Mössbauer studies of electronic changes in iron compounds.
- Ganguli, Bimal N. (I. C. Gunsalus, Adviser), Spectral and catalytic properties of cytochrome P-450 camphor.
- Gayhart, Robert B. (T. Moeller, Adviser), Observations on the rare earths: lanthanide complexes of triethylenetriaminehexaacetic acid.
- Gordon, Michael D. (D. Secrest, Adviser), A study of the helium atom-hydrogen molecule system employing the self-consistent field and configuration interaction methods.
- Gresho, Philip M. (R. L. Sani, Adviser), Time-dependent thermoconvective instability.
- Hanck, Kenneth W. (H. A. Laitinen, Adviser), Electrochemical reduction of potassium chromate in the presence of zinc(II) and cobalt(II) in molten lithium chloride-potassium chloride eutectic.
- Hartwell, Ieva O. (J. C. Bailar, Jr., Adviser), Chelate polymers of some BIS(alpha-amino acid) metal complexes.
- Hertenberg, Elliot P. (J. C. Bailar, Jr., Adviser), The solid phase anation reactions of some cobalt(III)-amine sulfate complexes.
- Hietje, Gary M. (H. V. Malmstadt, Adviser), Investigations into flame spectrometric processes and methods using an isolated droplet technique.
- Homsy, George M. (J. L. Hudson, Adviser), Centrifugally driven thermal convection and gravitational instabilities in bounded rotating fluids.
- Huang, Thomas T. (P. E. Yankwich, Adviser), Theoretical and experimental studies of some carbon kinetic isotope effects.
- Javier, Adelina C. (H. V. Malmstadt, Adviser), Investigations of the mechanism of the 12-molybdophosphoric acid reaction and application to a rapid quantitative reaction-rate procedure for phosphate.
- Johnston, Manley R. (D. E. Applequist, Adviser), The synthesis and deamination of a labelled spiroentylamine.
- Kalish, Robert. (W. H. Pirkle, Adviser), Synthesis of allenes by means of cycloelimination reactions.
- Kapecki, Jon A. (J. E. Baldwin, Adviser), Part I. Cycloadditions of diphenylketene to olefins. Part II. The structures of some adducts from carbon disulfide and alpha-diazo ketones.
- Keefer, Jane A. (R. L. Belford, Adviser), Ab initio and pseudopotential calculations for diatomic hydrides with a one-center numerical basis.

- Kent, Lee G. (T. L. Brown, Adviser), Halogen nuclear quadrupole resonance studies of metal halide systems.
- Kimura, Bert Y. (T. L. Brown, Adviser), Mass spectral and nuclear magnetic resonance studies of organolithium compounds.
- Kirkpatrick, Joel Lee. (R. M. Coates, Adviser), Reactivity and degenerate rearrangement in the solvolysis of pentacyclo(4.3.0.0^{2,4}.0^{3,8}.0^{5,7})-non-9-YL *p*-nitrobenzoate.
- Kraska, John R. (J. W. Westwater, Adviser), Finite amplitude cellular flows in a horizontal fluid layer with a free surface.
- Lindberg, Robert C. (R. A. Schmitz, Adviser), The nature of solutions to boundary layer problems with surface reaction.
- Ludwick, Larry M. (T. L. Brown, Adviser), Ligand exchange studies of methylatobis (dimethylglyoximate)-cobalt (III) complexes.
- McDugle, Woodrow G., Jr. (T. L. Brown, Adviser), Part I. A new evaluation of Platt's model, with application to metal carbonyl hydrides. Part II. Spectroscopic studies of hexachloro transition metal species.
- McPherson, Gary L. (G. D. Stucky, Adviser), Spectroscopic and structural studies of cesium transition metal trichlorides and tribromides.
- Monroe, Elizabeth M. (P. Beak, Adviser), Base-catalyzed hydrogen-deuterium exchanges of some six-membered heteroaromatic compounds.
- Pasby, Terry L. (G. Weber, Adviser), The characterization of the binding sites on bovine serum albumin for the dye 1-anilino-naphthalene-8-sulfonate by fluorescence spectroscopy.
- Pochan, John M. (W. H. Flygare, Adviser), Microwave spectroscopic studies; cyclopropane, molecular Zeeman effects, and supersonic nozzle beam applications.
- Randall, William J. (T. Moeller, Adviser), Observations on the rare earths: stabilities of 1-methoxy-2,4-pentanedione chelates.
- Ree, Buren R. (J. C. Martin, Adviser), Conformationally rigid cyclopropylcarbonyl and allyl cations.
- Richman, Jack E. (D. Y. Curtin, Adviser), Uncatalyzed 1,3-aryl migration from carbon to nitrogen. Isomerization of β -iminoketones to enamides.
- Ross, Frederick K. (G. D. Stucky, Adviser), Structural studies of halo and aquahalo complexes of first row transition metal ions.
- Sanzone, George (R. L. Belford, Adviser), The mass-spectrometric sampling of shock-tube flows for the study of high-temperature reaction rates.
- Schacht, Robert J. (K. L. Rinehart, Adviser), Studies in the photochemical derivatives of the Streptovarin antibiotics.
- Scott, Ronald S. (W. H. Flygare, Adviser), Microwave spectroscopy of hydroxide doped alkali halide crystals.
- Scott, Thomas G. (N. J. Leonard, Adviser), Spectroscopic model studies of NAD intramolecular interaction.
- Sharp, Phillip A. (V. Bloomfield, Adviser), Physical chemistry of deoxyribonucleic acids and virus.
- Shaw, James E. (R. M. Coates, Adviser), The total syntheses of several eremophilane sesquiterpenes.
- Silverstein, Howard T. (L. J. Todd, Adviser), Some chemistry of carboranes containing group five elements.
- Sipes, Gerald E. (R. S. Juvet, Adviser), Structure and stability constants of boron, calcium, and magnesium gluconate chelates from optical rotation and computer analysis.
- Sirkar, Kamallesh K. (T. J. Hanratty, Adviser), Turbulence in the immediate vicinity of a wall and fully developed mass transfer at high Schmidt numbers.
- Sister Elsbend, Helen. (G. B. Haight, Adviser), Studies of Trisethylenediamine complexes of ruthenium.
- Smith, Howard W. (R. A. Schmitz, Adviser), Combustion in pre-mixed gaseous systems in stagnation flow.
- Solomon, Robert L. (J. L. Hudson, Adviser), Diffusion and chemical reaction in multicomponent systems.
- Spencer, Diane D. (T. L. Brown, Adviser), Spectroscopic studies of group IV element bonding to the cobalttetracarboxyl group.
- Spencer, John A. (T. L. Brown, Adviser), The magneto circular dichroism of octahedral chromium (III) in ruby and of tetrahedral cobalt(II) halides.
- Stone, Robert G. (W. H. Flygare, Adviser), Microwave spectroscopic studies of nuclear quadrupole coupling, barriers to internal rotation, and the Zeeman effect.
- Swearingen, Roy A., Jr. (N. J. Leonard, Adviser), Pentaaasteroids from cyclization of N⁶-substituted adenines.
- Tanner, Roger L. (R. S. Juvet, Adviser), Elucidation of decomposition mechanisms and organic structure by the combination of photolysis and gas chromatography.
- Tibbets, Donald L. (T. L. Brown, Adviser), Exchange reactions of allylpalladium complexes.
- Tomlan, Patrick F. (J. L. Hudson, Adviser), Flow near an enclosed rotating disk.
- Toney, Joe D. (G. D. Stucky, Adviser), Structural studies of organo-magnesium compounds.
- Torkelson, Anthony R. (G. J. Schroepfer, Adviser), Stereochemical studies on the metabolism of oleic acid.
- Tower, Roger E. (J. W. Westwater, Adviser), The effect of plate inclination on heat transfer during dropwise condensation of steam.
- Tsai, Randolph L. (I. C. Gunsalus, Adviser), The chemistry of oxygen reduction: a methylene hydroxylase system and components.
- Valek, Michael H. (R. L. Belford, Adviser), The electronic and molecular structure of vanadyl chelates.
- Vejtasa, Stanley A. (R. A. Schmitz, Adviser), An experimental study of steady state multiplicity and stability in an adiabatic stirred reactor.
- Vigo, Francesco M. (K. L. Rinehart, Adviser), Synthetic and NMR studies of bridged ferrocenes.
- Warme, Paul K. (L. P. Hager, Adviser), Heme peptides as models of cytochrome structure and function.
- Welcker, Peter S. (L. J. Todd, Adviser), Some chemistry of eleven atom phosphacarborane molecules as ligands.
- Wu, Shiu-fu. (R. A. Marcus, Adviser), Analytical mechanics of chemical reactions in one and two dimensions using a Hamilton-Jacobi formalism.
- Yu, Chang-an. (I. C. Gunsalus, Adviser), Components and properties of the ketolactonase I enzymatic oxygenase system.
- Zellmer, David L. (H. A. Laitinen, Adviser), Analysis and electrochemistry of semiconducting tin oxide.

CHILDREN'S RESEARCH CENTER

BREWER, WILLIAM, Assistant Professor
See Psychology.

BROWN, ANN L., Visiting Assistant Professor

Articles

Differential reward positioning and children's performance on dimension-abstracted oddity problems. *Psychonomic Science*, 17, 4: 251-52.

ELLIS, MICHAEL J., Assistant Professor
See Recreation and Park Administration.

FEHR, FRED S., Research Assistant Professor

Articles

Similarity of parent-child physiological responsiveness and imitative behavior. *Psychophysiology*, 5:580.

GOLD, MARC W., Research Assistant Professor

Articles

Preworkshop skills for the trainable: a sequential technique. *Education and Training of the Mentally Retarded*, 3, 1:31-37. 1968.

Bulletins and Technical Reports

The acquisition of a complex assembly task by retarded adolescents. Final Report, Project No. 8-8060, Bureau of Education for the Handicapped, May.

JOHNSTON, PATRICIA V., Research Assistant Professor

Articles

With B. I. Roots

Plasmalogens of the nervous system and environmental temperature. *Comparative Biochemistry and Physiology*, 26:553-60.

With J. E. Cremer, B. I. Roots, A. J. Trevor
Heterogeneity of brain fractions containing neuronal and glial cells. *Journal of Neurochemistry*, 15:1361-70.

With E. G. Perkins

Pyrolysis—Gas chromatography of phosphoglycerides: a mass spectral study of the products. *Lipids*, 4:301-03.

LOCKE, JOHN L., Research Assistant Professor

Articles

Short-term auditory memory, oral perception, and experimental sound learning. *Journal of Speech and Hearing Research*, 12, 1:185.

Peer-group acceptance of children with disordered speech. *Journal of the Wisconsin Speech and Hearing Association*, 7, 1:5.

Experimentally-elicited articulatory behavior. *Language and Speech*, 12, 3:187.

With S. Maxwell

Voice in myasthenia gravis. *Laryngoscope*, 79, 11:1902.

SCOTT, KEITH G., Research Associate Professor

Articles

The design of mobile laboratories for behavioral research with children. *Journal of Experimental Child Psychology*, 7, 1:143-52.

With R. C. Urbano

Digit span, practice and dichotic listening performance in the mentally retarded. *Journal of Experimental Child Psychology*, 8:432-42.

SHRINER, THOMAS H., Assistant Professor of Speech and Children's Research Center

Articles

A review of mean length of response as a measure of expressive language development in children. *Journal of Speech and Hearing Disorders*, 34, 1:61-67.

With D. S. Beasley, W. R. Zemlin

The effects of frequency division on speech identification in children. *Journal of Speech and Hearing Research*, 12, 2:413-22.

With M. S. Hollaway, R. G. Daniloff

The relationship between articulatory deficits and syntax in speech defective children. *Journal of Speech and Hearing Research*, 12, 2:320-25.

With R. L. Sprague

The effects of time-compressed speech signals on children's identification accuracy and latency measures. *Journal of Experimental Child Psychology*, 7:532-40.

SPRAGUE, ROBERT L., Director and Associate Professor

Articles

With T. H. Shriner

Effects of time-compressed speech signals on children's identification accuracy and latency measures. *Journal of Experimental Child Psychology*, 7:532-40.

With S. M. Keeley

Effects of varying delay of reinforcement and postreinforcement intervals on learning of retardates. *Journal of Experimental Child Psychology*, 7:578-84.

With K. V. Davis, J. S. Werry

Stereotyped behavior and activity level in severe retardates: the effect of drugs. *American Journal of Mental Deficiency*, 73: 721-27.

Reviews

The token economy: a motivational system for therapy and rehabilitation, by Ayllon and Azrin. *American Journal of Mental Deficiency*, 74:451-52.

CIVIL ENGINEERING, INCLUDING SANITARY ENGINEERING

ACKERMANN, WILLIAM C., Professor

Articles

Effects of watershed changes: a continuing challenge. In *Effects of watershed changes on streamflow*, ed. by Moore and Morgan, University of Texas Press, Austin, pp. 3-6.

Costs of wells and pumps. *Ground water*, 7, 1:35-37.

Cost of pumping water. *Ibid.*, pp. 38-39.

Earth science in 1968, hydrology. *Geotimes*, 14, 1:15.

Hydrology becomes water science. *Transactions of the American Geophysical Union, Earth Sciences (EOS)*, 50, 3:76-79.

AMIN, MOHAMMAD, Assistant Professor

Articles

With A. H.-S. Ang

Safety factors and probability in structural design. *Proceedings of the ASCE, 95, Journal of the Structural Division, ST7: 1389-1405.*

Statistical concepts in aseismic design. In *Final report of international association of bridge and structural engineers symposium on concepts of safety and methods of design*, London, pp. 89-97.

With H.-S. Tsao, A. H.-S. Ang

Maximum response statistics of simple linear systems to earthquakes of prescribed intensity. In *Proceedings of the American Society of Civil Engineers (ASCE)-Engineering Mechanics Division (EMD) specialty conference on probabilistic concepts and methods in engineering*, Purdue University, pp. 24-28.

ANG, ALFREDO H.-S., Professor

Articles

Probabilistic considerations in design and formulation of safety factors. In *Final report of International Association of Bridge and Structural Engineers symposium on concepts of safety and methods of design*, London, pp. 13-23.

Extended reliability basis for formulation of design criteria. In *Proceedings of the American Society of Civil Engineers (ASCE)-Engineering Mechanics Division (EMD) specialty conference on probabilistic concepts and methods in engineering*, Purdue University, pp. 29-36.

With M. Amin

Safety factors and probability in structural design. *Proceedings of the ASCE, 95, Transactions of the Structural Division*, ST7:1389-1405.

Statistical concepts in aseismic design. *Final Report of International Association of Bridge and Structural Engineers Symposium on Concepts of Safety and Methods of Design*, London, pp. 89-97.

With J. G. Crose

A nonlinear analysis method for circular plates. *Proceedings of the ASCE, 95, Journal of the Engineering Mechanics Division*, EM4:979-99.

With M. Amin, H.-S. Tsao

Maximum response statistics of simple linear systems to earthquakes of prescribed intensity. *Proceedings of the American Society of Civil Engineers (ASCE)-Engineering Mechanics Division (EMD) specialty conference on probabilistic concepts and methods in engineering*, Purdue University, pp. 24-28.

BAERWALD, JOHN E., Professor

Articles

Professional goals: organizationally and personally. *Traffic Engineering, 40*, 2:6.

BARENBERG, ERNEST J., Associate Professor

Articles

With V. Yackovlev

Some aspects of the rheological behavior of bituminous mixes. *Highway Research Record, 273*:12-27.

BIRKEMOE, PETER C., Assistant Professor

Articles

With D. F. Meinheit, W. H. Munse

Fatigue of A514 steel in bolted connections. *Proceedings of the American Society of Civil Engineers, 95, Journal of the Structural Division*, ST10:2011-30.

With W. H. Munse

High-strength bolting of galvanized connections. In *Australian Institute of Steel Construction and Australian Zinc Development Association, symposium on bolting galvanized connections and new steel design specifications*, August, 23 pp.

BROOKS, ALBERT C., Instructor

Articles

With L. R. Shaffer

Queueing models of production forecasts in construction. *Proceedings of the American Society of Civil Engineers (ASCE)-Engineering Mechanics Division (EMD), specialty conference on probabilistic concepts and methods in engineering*, Purdue University, pp. 163-68.

BULLEN, ALLAN G. R., Assistant Professor

Articles

With R. D. Worrall, Y. Gur

Lane changing in multilane freeway traffic. *Highway Research Record, 279*:160.

With R. D. Worrall, S. Robertson

A simulation model of lane changing on a multilane highway. *Highway Research Record, 279*:161.

CHILTON, ARTHUR B., Professor

See Nuclear Engineering.

CHOW, VEN TE, Professor

Books Edited

Advances in hydrosceince, vol. 5. Academic Press Inc., New York, 305 pp.

With B. B. Ewing

Advanced civil engineering planning technology. Engineering Publications Office, University of Illinois, Urbana, 204 pp.

With Members NAS/NASA Space Applications Study

Useful applications of earth-drained satellites, part 3, hydrology. National Academy of Sciences — National Research Council, Washington, D.C., 73 pp.

Useful applications of earth-oriented satellites — summaries of panel reports. National Academy of Sciences — National Research Council, Washington, D.C., 92 pp.

Articles

Spatially varied flow equations. *Water Resources Research, 5*, 5:1124-28.

With B. B. Ewing, J. E. Flack

Guidelines for a graduate curriculum in water resources planning. *Journal of Engineering Education, 59*, 10:1140-42.

With B. C. Yen

A laboratory study of surface runoff due to moving rainstorms. *Water Resources Research, 5*, 5:989-1006.

Bulletins and Technical Reports

Stochastic analysis of hydrologic systems. Water Resources Center, University of Illinois, Urbana, Research Report No. 26, 34 pp.

DEMPSEY, BARRY J., Assistant Professor

Articles

With M. R. Thompson

Autogenous healing of lime-soil mixtures. *Highway Research Record, 263*:1-7.

DICK, RICHARD I., Professor

Articles

Some fundamental aspects of sedimentation — the clarification function. *Water and Wastes Engineering, 6*, 2:47-50.

Some fundamental aspects of sedimentation — the thickening function. *Ibid.*, 3:44-45.

Discussion closure to evaluation of activated sludge thickening theories. *Proceedings of the ASCE, 95, Journal of the Sanitary Engineering Division*, SA2:333-40.

- A review of the literature of 1968 on wastewater and water pollution control—sludge treatment, disposal and utilization. *Journal Water Pollution Control Federation*, 41, 6:934-49.
- With A. R. Javaheri*
Aggregate size variations during thickening of activated sludge. *Ibid.*, Part 2, 5:R197-R214.
- With R. B. Dean*
Disposal of wastes from water treatment plants—status report on research. *Journal American Water Works Association*, 61, 10:543-51.
- With P. A. Vesilind*
Initial depth as a variable in activated sludge settling tests. *Effluent and Water Treatment Journal*, 9, 5:263-68.
- The sludge volume index—what is it? *Journal Water Pollution Control Federation*, 41, 7:1285-91.
- Bulletins and Technical Reports**
With R. B. Dean
Status report on research, disposal of wastes from water treatment plants. American Water Works Association Research Foundation, FWPCA Water Pollution Control Research Series ORD-2, pp. 5-28.
- With Others*
Report on research needs, disposal of wastes from water treatment plants. American Water Works Association Research Foundation, FWPCA Water Pollution Control Research Series ORD-2, pp. 247-51.
- EADES, JAMES L., Research Assistant
Professor
See Geology.
- ENGELBRECHT, RICHARD S., Professor
Articles
With I. Wei, J. H. Austin
Removal of nematodes by rapid sand filtration. *Proceedings of the ASCE*, 95, *Journal of the Sanitary Engineering Division*, SA1: 1-16.
- With M. W. Hall*
Phosphorus removal—past, present, and future. *Water and Wastes Engineering*, 6, 8:50-53.
- EUBANKS, ROBERT A., Professor
Articles
On the critical speeds of a continuous rotor. *Transactions of the American Society of Mechanical Engineers. Series B*, 4:1180-88.
- With S. Holzer*
Stability of columns subject to impulsive loading. *Proceedings of the ASCE*, 95, *Journal of the Engineering Mechanics Division*, EM4:897-920.
- EWING, BENJAMIN B., Professor
Articles
With V. Kothandaraman
A probabilistic analysis of dissolved oxygen-biochemical oxygen demand relationship in streams. *Journal of the Water Pollution Control Federation*, 41:R73-R90.
- With V. T. Chow, J. E. Flack*
Guidelines for a graduate curriculum in water resources planning. *Journal of Engineering Education*, 59, 10:1140-42.
- With V. T. Chow*
Advanced civil engineering planning technology. Engineering Publications Office, University of Illinois, Urbana, 204 pp.
- With B. T. Kown*
Effects of the counter-ion pairs on clay ion-exchange reactions. *Soil Science*, 108: 231-40.
- FAIG, WOLFGANG, Assistant Professor
Bulletins and Technical Reports
Vermessung dünner seifenlamellen mit hilfe der nahbereichs photogrammetrie. Deutsche Geodätische Kommission bei der Bayerischen Akademie der Wissenschaften, Reihe C, Heft Nr. 144, Munich, 114 pp.
- FENVES, STEVEN J., Professor
Articles
Problem-oriented languages. In *Computational approaches in applied mechanics*, ed. by E. Sevin, American Society of Mechanical Engineers, New York, pp. 1-9.
- Elastic and plastic structural networks. In *Record, 1969 joint conference on mathematical and computer aids to design*, Association for Computing Machinery, New York, pp. 110-28.
- Computer graphics on PLATO. In *Emerging concepts in computer graphics*, ed. by Secrest and Nievergelt, W. A. Benjamin, New York, pp. 71-83. 1968.
- With A. P. Froemming*
Data structure for a construction company management system. *Highway Research Record*, 278:22-34.
- With D. R. Lagerquist*
Design using symbolic topological equations. *Proceedings of the ASCE*, 95, *Journal of the Engineering Mechanics Division*, EM3: 695-709.
- With G. A. Morris*
Approximate yield surface equations. *Ibid.*, EM4:937-54.
- GAMBLE, WILLIAM L., Associate Professor
Articles
Discussion of "Development and use of prestressed steel flexural members." *Proceedings of the American Society of Civil Engineers (ASCE)*, 95, *Journal of the Structural Division*, ST6:780-84.
- With M. A. Sozen, C. P. Siess*
Tests of a two-way reinforced concrete floor slab. *Ibid.*, pp. 1073-96.
- With M. A. Sozen*
Strength and cracking characteristics of beams with no. 14 and no. 18 bars spliced with mechanical splices. *Journal of the American Concrete Institute*, 66, 12:949-56.
- GAYLORD, EDWIN H., Professor
Articles
With S. A. Sharma
Strength of steel columns with biaxially eccentric load. *Proceedings of the ASCE*, 95, *Journal of the Structural Division*, ST12: 2797-2812.
- GURFINKEL, GERMAN R., Associate Professor
Books
With N. Khachaturian
Prestressed concrete. McGraw-Hill Book Co., Inc., New York, 460 pp.
- Articles**
Simple method of analysis of Vierendeel structures, closure. *Proceedings of the ASCE*, 95, *Journal of the Structural Division*, ST1:85-88.

HALL, WILLIAM J., Professor

Articles

Evaluation of fracture tests and specimen preparation. In *Fracture*, Academic Press Inc., New York, 4:1-44.

With N. E. Funston

Footing vibration with nonlinear subgrade support. *Transactions of the ASCE*, 134:17-18.

With N. M. Newmark

Special topics for consideration in design of nuclear power plants subjected to seismic motions. *Proceedings of the International Atomic Energy Agency Panel on Aseismic Design and Testing of Nuclear Facilities, Tokyo, Japan, 12-16 June 1967*. Japan Earthquake Promotion Society, Tokyo, pp. 114-19.

With P. L. Rohmaller

Studies of welding procedures—phase IV. *Welding Journal, Research Supplement*, 48, 2:57s-69s.

Bulletins and Technical Reports

With E. P. Wigner, and others

Civil defense—Little Harbor report. U.S. Atomic Energy Commission, Washington, D.C., 53 pp.

HAY, WILLIAM W., Professor

Articles

Practical transportation engineering. In *Bulletin of the American Railway Engineering Association*, Sept.-Oct. 1969, pp. 97-108. Also published as *Meeting Preprint 913*, American Society of Civil Engineers National Meeting on Transportation, Washington, D.C., 21-25 July 1969, 8 pp.

HILSDORF, HUBERT K., Professor

Articles

Investigation into the failure mechanism of brick masonry loaded in axial compression. In *Designing, engineering and constructing with masonry products*, ed. by F. B. Johnson, Gulf Publishing Company, Houston, pp. 34-41.

With H. Kupfer, H. Rusch

Behavior of concrete under biaxial stresses. *Journal of the American Concrete Institute*, 66, 8:656-66.

With H. G. Heilmann, K. Finsterwalder

Festigkeit und verformung von beton unter zugspannungen. *Proceedings DAfStb*, Wilhelm Ernst und Sohn, Berlin, 203:1-94.

HOLLEY, EDWARD R., Associate Professor

Articles

Unified view of diffusion and dispersion. *Proceedings of the American Society of Civil Engineers*, 95, *Journal of the Hydraulics Division*, HY2:621-31.

Surging in a laboratory pipeline with steady inflow. *Ibid.*, HY3:961-80.

With W. H. C. Maxwell

A method for deaerating water. *Ibid.*, HY1:577-80.

HOLZER, SIEGFRIED M., Assistant Professor

Articles

With R. A. Eubanks

Stability of columns subject to impulsive loading. *Ibid.*, *Journal of the Engineering Mechanics Division*, EM4:897-920.

IRELAND, HERBERT O. Professor

Articles

Design and construction of deep braced ex-

cavations. *Proceedings 1966 Illinois Structural Engineering Conference, University of Illinois Bulletin*, 66, 78:175-88.

Foundations for heavy structures. *Review in Engineering Geology*, The Geological Society of America, 2:1-15.

KARARA, HOUSSAM M., Professor

Articles

On the precision of stereometric systems. *International Archives of Photogrammetry*, part 4, paper 20, vol. 17, 49 pp.

KHACHATURIAN, NARBEY, Professor

Books

With G. R. Gurfinkel

Prestressed concrete. McGraw-Hill Book Co., Inc., New York, 460 pp.

LARSON, THURSTON E., Professor

Articles

With R. H. Harmeson

Interim report on the presence of nitrates in Illinois surface waters. *1969 Illinois Fertilizer Conference Proceedings*, p. 33.

Bulletins and Technical Reports

With R. H. Harmeson

Quality of surface water in Illinois, 1956-1966. *Bulletin 54*, Illinois State Water Survey, Champaign, Illinois, 184 pp.

With 25 Member Task Force as Chairman

Cleaning our environment—the chemical basis for action. American Chemical Society, Washington, D.C., 249 pp.

MAREK, CHARLES R., Assistant Professor

Books

Soils manual for highway technicians. Stipes Publishing Co., Champaign, Illinois, 158 pp.
Bituminous manual for highway technicians. *Ibid.*, 189 pp.

MAXWELL, W. HALL C., Assistant Professor

Articles

With E. R. Holley

A method for deaerating water. *Proceedings of the American Society of Civil Engineers*, 95, *Journal of the Hydraulics Division*, HY1:577-80.

With J. R. Weggel

Surface tension in Froude models. *Ibid.*, HY2:677-701.

MELIN, JOHN W., Associate Professor

Articles

With B. Mohraz, W. C. Schnobrich

The numerical analysis of shell structures by a discrete element system. *Large Span Shells*, Tsinis, Moscow, 1:520-35, 1968.

MOHRAZ, BIJAN, Assistant Professor

Articles

With J. W. Melin, W. C. Schnobrich

The numerical analysis of shell structures by a discrete element system. *Large Span Shells*, Tsinis, Moscow, 1:520-35, 1968.

MUNSE, WILLIAM H.

Articles

Brittle fracture in weldments. In *Treatise on fracture*, vol. 4, ed. by H. Liebowitz, Academic Press Inc., New York, pp. 372-433.

New and up-dated design specifications. *Australian Institute of Steel Construction and*

Australian Zinc Development Association, Symposium on Bolting Galvanized Connections and New Steel Design Specifications, August, 24 pp.

With P. C. Birkemoe

High-strength bolting of galvanized connections. *Ibid.*, 23 pp.

With P. C. Birkemoe, D. F. Meinheit

Fatigue of A514 steel in bolted connections. *Proceedings of the American Society of Civil Engineers*, 95, *Journal of the Structural Division*, ST10:2011-30.

With W. A. Sanders

Load distribution in steel railway bridges. *Ibid.*, pp. 2763-81.

With J. P. Cannon

Photoelastic study of flow and fracture of notched steel plates. *Welding Journal*, 48, 12:558s-70s.

Bulletins and Technical Reports

With C. W. Lewitt, E. Chesson, Jr.

Restraint characteristics of flexible riveted and bolted beam-to-column connections, *University of Illinois Engineering Experiment Station Bulletin No. 500*, 99 pp.

NEWMARK, NATHAN M., Professor
and Head of Department

Articles

Relation between wind and earthquake response of tall buildings. *Proceedings 1966 Illinois Structural Engineering Conference*, February, pp. 137-56.

Earthquake engineering—learning from failures. *Midwest Engineer*, 21, 7:10-13.

Design criteria for nuclear reactors subjected to earthquake hazards. *Proceedings of the International Atomic Energy Agency Panel on Aseismic Design and Testing of Nuclear Facilities*, Tokyo, Japan, 12-16 June 1967. Japan Earthquake Promotion Society, Tokyo, pp. 90-113.

Structural synthesis and design. In *Earthquake engineering research*, ed. by N. M. Newmark and others, National Academy of Sciences, pp. 199-232.

With W. J. Hall

Special topics for consideration in design of nuclear power plants subjected to seismic motions. *Proceedings of the International Atomic Energy Agency Panel on Aseismic Design and Testing of Nuclear Facilities*, Tokyo, Japan, 12-16 June 1967. Japan Earthquake Promotion Society, Tokyo, pp. 114-19.

NIELSEN, N. NORBY, Associate Professor

Articles

Dynamic response of a 90-ft. steel frame tower. *Proceedings of the Fourth World Conference on Earthquake Engineering*, B-5:126-34.

With M. A. Sozen, S. Otani, P. Gulkan

The University of Illinois earthquake simulator. *Ibid.*, pp. 134-49.

PECK, RALPH B., Professor

Articles

Deep excavation and tunnelling in soft ground. State of the art volume. *Proceedings of the Seventh International Conference on Soil Mechanics and Foundation Engineering*, pp. 225-90.

Advantages and limitations of the observational method in applied soil mechanics. Ninth Rankine Lecture, *Geotechnique*, 19: 171-87.

General report, deep excavations and tunneling in soft ground. *Proceedings of the Seventh International Conference on Soil Mechanics and Foundation Engineering*, 3: 147-50.

With J. R. Salley

Tolerable settlements of steam turbine-generators. *Proceedings of the American Society of Civil Engineers*, 95, *Journal of the Power Division*, P02:227-52.

With A. R. S. Bazaraa

Discussion. Settlement of spread footings on sand. *Ibid.*, *Journal of the Soil Mechanics and Foundations Division*, SM3:905-09.

Bulletins and Technical Reports

A man of judgment. Second R. P. Davis Lecture on the practice of engineering, April 1969. *Bulletin of West Virginia University*, Series 70, No. 5-2., 10 pp.

PFEFFER, JOHN T., Professor

Articles

Evaluation of aerator capabilities for wastewater treatment. *Tappi*, 52, 9:1652-55.

ROBINSON, ARTHUR R., Professor

Articles

With R. L. Carter, W. C. Schnobrich

Free vibrations of hyperboidal shells of revolution. *Proceedings of the American Society of Civil Engineers*, 95, *Journal of the Engineering Mechanics Division*, EM5: 1033-52.

SCHMIDT, MILTON O., Professor

Books

With W. H. Rayner

Fundamentals of Surveying. Van Nostrand-Reinhold Co., New York, 533 pp.

SCHNOBRICH, WILLIAM C., Professor

Articles

With R. L. Carter, A. R. Robinson

Free vibrations of hyperboidal shells of revolution. *Proceedings of the American Society of Civil Engineers*, 95, *Journal of the Engineering Mechanics Division*, EM5: 1033-52.

With D. A. Pecknold

Finite element analysis of skewed shallow shells. *Ibid.*, *Journal of the Structural Division*, ST4:715-44.

With J. W. Melin, B. Mohraz

The numerical analysis of shell structures by a discrete element system. *Large Span Shells*, Tsinis, Moscow, 1:520-35. 1968.

With J. A. Padilla

Doubly curved shallow shells with elastic supports. *Ibid.*, pp. 483-95.

SHAFFER, LOUIS RICHARD, Professor

Articles

With A. C. Brooks

Queueing models of production forecasts in construction. *Proceedings of the American Society of Civil Engineers (ASCE)-Engineering Mechanics Division (EMD) Specialty Conference on Probabilistic Concepts and Methods in Engineering*, Purdue University, pp. 163-68.

SIESS, CHESTER P., Professor

Articles

With D. S. Hatcher, M. A. Sozen

Test of reinforced concrete flat slab. *Proceedings of the American Society of Civil*

- Engineers, 95, Journal of the Structural Division, ST6:1051-72.*
- With W. L. Gamble, M. A. Sozen
Tests of a two-way reinforced concrete floor slab. *Ibid.*, pp. 1073-96.
- With M. D. Vanderbilt, M. A. Sozen
Tests of a modified reinforced concrete two-way slab. *Ibid.*, pp. 1097-1116.
- With J. O. Jirsa, M. A. Sozen
Pattern loadings on reinforced concrete floor slabs. *Ibid.*, pp. 1117-37.
- SNOEYINK, VERNON L.**, Assistant Professor
Articles
With W. J. Weber, Jr., H. B. Mark
Sorption of phenol and nitrophenol by activated carbon. *Environmental Science and Technology*, 3:918.
- With F. L. Burton, H. M. Theisen
Cost of industrial water treatment. *Industrial Water Engineering*, 6:24.
- SOZEN, METE A.**, Professor
Articles
With S. Otani, P. Gulkan, N. N. Nielsen
The University of Illinois earthquake simulator. *Proceedings of the Fourth World Conference on Earthquake Engineering*, B-5:134-49.
- With W. L. Gamble
Strength and cracking characteristics of beams with no. 14 and no. 18 bars spliced with mechanical splices. *Journal of the American Concrete Institute*, 66, 12:949-56.
- With J. O. Jirsa, C. P. Siess
Pattern loadings on reinforced concrete floor slabs. *Proceedings of the American Society of Civil Engineers, 95, Journal of the Structural Division, ST6:1117-37.*
- With D. S. Hatcher, C. P. Siess
Test of reinforced concrete flat slab. *Ibid.*, pp. 1051-72.
- With W. L. Gamble, C. P. Siess
Tests of a two-way reinforced concrete floor slab. *Ibid.*, pp. 1073-96.
- With M. D. Vanderbilt, C. P. Siess
Tests of a modified reinforced concrete two-way slab. *Ibid.*, 1097-1116.
- STUKEL, JAMES J.**, Assistant Professor
See Mechanical and Industrial Engineering.
- TANG, WILSON H.**, Assistant Professor
Articles
With H. C. Shah, J. R. Benjamin
Statistical evaluation of load factors in structural design. *Symposium Report of the International Association for Bridge and Structural Engineering on Concepts of Safety of Structures and Methods of Design, London, September 1969*, 4:99-107.
- Statistical evaluation of load factors for dead and live loads. *Proceedings of the American Society of Civil Engineers (ASCE)-Engineering Mechanics Division (EMD) Specialty Conference at Purdue University*, pp. 185-89.
- THOMPSON, MARSHALL R.**, Associate Professor
Articles
Engineering properties of lime-soil mixtures. *Journal of Materials*, 4, 4:968-69.
- With B. J. Dempsey
Autogenous healing of lime-soil mixtures. *Highway Research Record*, 263:107.
- THORNBURN, THOMAS H.**, Professor
Articles
Geology and pedology in highway soil engineering. In *Reviews in engineering geology, vol. II*, ed. by D. J. Varnes and G. Kiersch, Geological Society of America, Boulder, Colorado, pp. 17-57.
- With R. Mura
Stabilization of soils with inorganic salts and bases: a review of the literature. *Highway Research Board Record*, 294:1-22.
- WEGGEL, J. RICHARD**, Assistant Professor
Articles
With W. H. C. Maxwell
Surface tension in Froude models. *Proceedings of the American Society of Civil Engineers, 95, Journal of the Hydraulics Division, HY2:677-701.*
- WONG, KAM W.**, Assistant Professor
Articles
Geometric distortions in television imageries. *Photogrammetric Engineering*, 34, 5:493-500.
- Computer programs for strip aerotriangulation. *Proceedings of the American Society of Civil Engineers, 95, Journal of the Surveying and Mapping Division, SU1:71-80.*
- Geometric calibration of television systems for photogrammetric applications. *International Archives of Photogrammetry*, 17, 10:5-35.
- Research in universities in U.S. and Canada in 1968. *Photogrammetric Engineering*, 34, 12:1263-67.
- WRIGHT, RICHARD N.**, Associate Professor
Articles
Design of box girders of deformable cross section. *Highway Research Record*, 295: 5-24.
- YEN, BEN CHIE**, Assistant Professor
Articles
Hydraulic characteristics of raindrops. *Taiwan Water Conservancy Quarterly, Journal of the Chinese Institute of Hydraulic Engineering*, 16, 4:1-5.
- The present status of prediction of peak discharge for small watersheds. *Journal of Civil Engineering, The Chinese Institute of Civil Engineering*, 11.
- With V. T. Chow
A laboratory study of surface runoff due to moving rainstorms. *Water Resources Research*, 5, 5:909-1006.
- Reviews
Discussion: oxygen transfer from falling water droplets, by C. E. Carver, Jr. *Proceedings of the American Society of Civil Engineers, 95, Journal of the Sanitary Engineering Division, SA6:1203-05.*
- Bulletins and Technical Reports
With T. L. McGillivray
Flow velocity tracing by using radioactive spheres. Bulletin 3, Envirotronic Corporation, Bethlehem, Pennsylvania, 36 pp.
- YOUNG, J. F.**, Assistant Professor
Articles
Influence of tricalcium aluminate on the hydration of tricalcium silicate. *Journal of American Ceramic Society*, 52, 1:44.
- DOCTORAL DISSERTATIONS**
Abbasi, Abdulghafoor F. (C. P. Siess, Adviser), Effect of stress-strain characteristics of high-

- strength reinforcement on the behavior of reinforced concrete beam-columns.
- Aiyer, Arunachalam K. (A. J. Hendron, Jr., Adviser), An analytical study of the time-dependent behavior of underground openings.
- Baliga, Kalyanpur Y. (J. T. O'Connor, Adviser), Biologically mediated chemical changes in the filtration of aerated ground waters.
- Blackburn, Terry O. (A. R. Robinson, Adviser), Free and forced vibrations of general shells of revolution.
- Burdette, Edwin G. (H. K. Hilsdorf, Adviser), The effect of lateral confinement on the behavior of axially loaded concrete compression members.
- Chang, Yuan-chun. (R. B. Peck, Adviser), Long-term consolidation beneath the test fills at Väsbj, Sweden.
- Chaudhuri, Malay. (R. S. Engelbrecht, Adviser), Virus removal by chemical coagulation.
- Dempsey, Barry J. (M. Herrin, Adviser), A heat-transfer model for evaluating frost action and temperature related effects in multi-layered pavement systems.
- Echeverria-Gomez, Alejandro. (W. C. Schnobrich, Adviser), Elastic-fracture analysis of cylindrical prestressed concrete reactor vessels.
- Ertas, Rebil. (S. J. Fenves, Adviser), Automatic analyzer for iterative design.
- Forbes, Delroy J. (A. R. Robinson, Adviser), Numerical analysis of elastic plates and shallow shells by an integral equation method.
- Galloway, John C. (A. H. S. Ang, Adviser), A generalized discrete model for plane problems of solid media.
- Habibagahi, Karim. (T. K. Liu, Adviser), Influence of temperature on consolidation behavior of remolded organic paulling and inorganic paulling soils.
- Hagerty, Donald J. (R. B. Peck, Adviser), Some heave phenomena associated with pile driving.
- Haider, S. Gulzar. (N. Khachaturian, Adviser), Structural design as an optimal decision process.
- Jester, Guy E. (N. M. Newmark, Adviser), An experimental investigation of soil-structure interaction in a cohesive soil.
- Jones, Harry L. (N. Khachaturian, Adviser), Influence of geometrical and topological configuration on the weight of simply supported plane trusses.
- Khalifa, Mohamed O. (M. Herrin, Adviser), The behavior of asphaltic concrete constructed with large-sized aggregate.
- McKee, Dean C. (C. E. Kesler, Adviser), The properties of an expansive cement mortar reinforced with random wire fibers.
- Mesri, Gholamreza. (R. E. Olson, Adviser), Engineering properties of montmorillonite.
- Nair, Rajasekharan S. (W. H. Munse, Adviser), Behavior of bolts in tee-connections subject to prying action.
- Patterson, Garry J. (N. M. Newmark, Adviser), Finite element analysis of hyperboloidal prestressed concrete containment vessels.
- Schmidt, Birger. (R. B. Peck, Adviser), Settlements and ground movements associated with tunneling in soil.
- Smart, John D. (M. T. Davison, Adviser), Vibratory pile driving.
- Stocker, Manfred F. (M. A. Sozen, Adviser), A hypothesis for the nature of bond between strand and concrete.

- Thiruvengadam, Thiruvallam R. (C. P. Siess, Adviser), A method for inelastic analysis of single-span composite beams.
- Thompson, John C. (A. R. Robinson, Adviser), Exact solutions of some dynamic problems of indentation and transient loadings of an elastic half space.
- Thompson, Owen O. (M. Herrin, Adviser), Evaluation of flexible pavement behavior with emphasis on the behavior of granular layers.

CLASSICAL AND EUROPEAN CULTURE MUSEUM

DODSON, OSCAR H., Director

Articles

- The revival of a laggard. *Archaeology*, 22, 2:101-05.
- The legendary Farren Zerbe. *Numismatist*, 82, 9:1195-1206.

CLASSICS

ABBOTT, KENNETH M., Visiting Professor

Articles

- Commodian and the problem of late Latin verse. In *Classical studies presented to Ben Edwin Perry by his students and colleagues at the University of Illinois*, University of Illinois Press, Urbana, pp. 272-91.

ALLEN, HUBERT L., Assistant Professor

Articles

- Hieron I, *Encyclopedia Americana*, Americana Corporation, New York, 14:183.
- Hieron II, *Ibid*.

BATEMAN, JOHN J., Professor and Head of Department

Articles

- The development of Erasmus' views on the correct pronunciation of Latin and Greek. In *Classical studies presented to Ben Edwin Perry by his students and colleagues at the University of Illinois*, University of Illinois Press, Urbana, pp. 48-65.

JACOBSON, HOWARD, Assistant Professor

Articles

- Ennian influence in *Heroides* 16 and 17. *Phoenix*, 22:299-303.

MARCOVICH, MIROSLAV, Visiting Professor

Articles

- Textual criticism on the *Gospel of Thomas*. *Journal of Theological Studies*, Oxford, 20: 53-74.
- Bedeutung der Motive des Volksglaubens für die Textinterpretation. *Quaderni Urbinati di cultura classica*, 8:61-75.
- The Orphic hymn to Erinyes: 69. *Rheinisches Museum für Philologie*, 112:189.
- Anecdota Paris. I, p. 167.17 ff. *Ibid.*, p. 188.
- Tres pautas en el pensamiento de Heráclito. *Actual*, Revista de la Universidad de Los Andes, Venezuela, 5:36-42.
- On the earliest Greek verse inscriptions. *La Parola del Passato*, 125:217-23.

NAOUMIDES, MARK, Associate Professor

Articles

- The fragments of Greek lexicography in the Papyri. In *Classical studies presented to Ben Edwin Perry by his students and col-*

leagues at the University of Illinois, University of Illinois Press, Urbana, pp. 181-202.

Reviews

Der byzantinische Alexanderroman nach dem Codex Vindob. Theol. gr. 244, by K. Mitsakis. *Comparative Literature Studies*, 6: 34-37.

NEWMAN, JOHN K., Visiting Lecturer

Articles

Translation of Wordsworth's "Sonnet Composed Upon Westminster Bridge," into 4th Archilochian meter of Horace. In *Corolla Camenae*, ed. by Herbert H. Huxley, University of Victoria Press, British Columbia, p. 33.

Poetarum Latinorum loci quattuor. *Latinitas*, 17, 1:9-15.

OLIVER, REVILO P., Professor

Articles

The text of Ovid's *Amores*. In *Classical studies presented to Ben Edwin Perry*, University of Illinois Press, Urbana, pp. 138-64.

ROBBINS, VERNON K., Assistant Professor

Reviews

Jesus in the Gospels, by Ernest W. Saunders. *Journal of Religion*, 49:407-08.

SCANLAN, RICHARD T., Associate Professor

Articles

1968 annual bibliography. *Foreign Language Annals*, 2, 4:483-525.

WALLACH, LUITPOLD, Professor

Reviews

Books known to the English, 597-1066, by J. D. A. Ogilvy. *Journal of English and German Philology*, 68:156-61.

Thomae Walsingham De Arch. Deorum, by R. A. Van Kluyve. *Ibid.*, pp. 499-503.

DOCTORAL DISSERTATIONS

Cashdollar, Stanford E., Jr. (M. H. Fisch, Adviser), An inquiry into Aristotle's ethics and politics: is there an autonomous science of morals?

Pieper, Gail M. (M. Naoumides, Adviser), Unity and poetic technique in the odes of Bacchylides.

Wagner, Cheryl A. (J. L. Heller and C. G. Starr, Advisers), The biography of Didius Julianus in the *Historia Augusta*.

COMMUNICATIONS RESEARCH

BREWER, WILLIAM F., Assistant Professor
See Psychology.

CAREY, JAMES W., Research Associate
Professor

Articles

The Communications revolution and the professional communicator. *The Sociological Review Monograph*, 13:23-38.

Reviews

Thirty plays hath November by Walter Kerr. *Journalism Quarterly*, 46:844-45.

FISHBEIN, MARTIN, Research Associate
Professor

See Psychology.

GUBACK, THOMAS H., Research Assistant
Professor

See Journalism.

JAKOBOVITS, LEON A., Research Associate
Professor

See Psychology.

MAY, WILLIAM H., Research Assistant
Professor

Articles

Tests of the generality of affective meaning. *Memorias Del XI Congreso Interamericano De Psicologia*, Sociedad Inter Americana de Psicologia, p. 39.

MERRITT, RICHARD L., Research Associate
Professor

See Political Science.

OSGOOD CHARLES E., Professor

Books Edited

With J. G. Snider

Semantic differential technique: a sourcebook. Aldine Publishing Co., Chicago, 681 pp.

Articles

With J. Boucher

The Pollyanna Hypothesis. *Journal of Verbal Learning and Verbal Behavior*, 8:1-8.

On the whys and wherefores of E, P, and A. *Journal of Personality and Social Psychology*, 12, 3:194-99.

SCHILLER, HERBERT I., Research Professor
See Economic and Business Research.

WIGGINS, NANCY, Research Associate
Professor

See Psychology.

DOCTORAL DISSERTATIONS

Carrell, Bob, Jr. (C. H. Sandage, Adviser), The mass media as gatekeepers in respect to advertising.

Erickson, Donald H. V. (C. H. Sandage, Adviser), FM broadcasting: its technical, political and economic history.

Fletcher, Alan D. (C. H. Sandage, Adviser), Television viewing behavior of Negro and white children in Athens, Georgia.

Hatch, Richard A. (J. W. Jensen, Adviser), Reporters and legislators in Illinois: their roles and how they interact.

Izard, Ralph S. (J. W. Jensen, Adviser), Coverage by selected consumer magazines of educational issues, 1956-66.

Kuhonta, Maria C. M. (C. H. Sandage, Adviser), An analysis of the communication process in the adoption of farm innovations.

Limber, John E. (C. E. Osgood, Adviser), Semantic characteristics of English adjectives determined by their usage.

Nagata, Kiyoshi (H. S. Maclay, Adviser), A statistical approach to the study of acculturation of an ethnic group based on communication-oriented variables: the case of Japanese Americans in Chicago.

Pierce, Frank N. (S. W. Dunn, Adviser), Foreign student views and attitudes toward advertising in the United States.

Saral, Tulsi B. (C. E. Osgood, Adviser), A study of the effect of role information on interpretation of facial expressions.

Shackelford, Wendell C. (H. S. Maclay, Adviser), The critic of public media: a discus-

sion of the dynamics of appreciation and critical reasoning, with a detailed analysis of Broadway reviews in New York newspapers.

COMMUNITY PLANNING

FORREST, CLYDE W., JR., Associate Professor

Books Edited
With R. K. Joy

The private property and public-interest conflict. Proceedings of the first institute on law and planning, 1968. Bureau of Community Planning, University of Illinois, Urbana, 66 pp.

Zoning is planning — proceedings of the institute on zoning, 1969. Bureau of Community Planning, University of Illinois, Urbana, 75 pp.

Articles

Plan policies and zoning amendments: cases, practices, and pitfalls. In *Proceedings of the institute on zoning*, 1969, pp. 22-41.

Private property strikes back — increasing the area of compensation thru inverse condemnation. In *Proceedings of the institute on law and planning*, 1968-1969, pp. 49-55.

Relief from zoning ordinance. *American Jurisprudence*, 16:99-203.

FREUND, ERIC C., Director of Community Planning and Associate Professor

Bulletins and Technical Reports

The general manager's role in new town implementation. Center for Urban and Regional Studies, Institute for Research in Social Sciences, University of North Carolina at Chapel Hill, 45 pp.

GUTTENBERG, ALBERT Z., Professor

Articles

"Social versus physical planning" revisited. *Planning*, 35, 7:112-14.

Planning terminology needs improvement. *American City*, 84, 10:34.

Reviews

The unprepared society; planning for a precarious future, by Donald M. Michael. *Planning*, 35, 4:66-67.

Bulletins and Technical Reports

Environmental reform in the U.S.: the populist progressive era and the new deal. Council of Planning Librarians, Monticello, Illinois, 15 pp.

COMPARATIVE LITERATURE

ALDRIDGE, A. OWEN, Professor

Books Edited

Comparative literature: matter and method. University of Illinois Press, Urbana, 344 pp.

Articles

Thomas Paine in Latin-America. *Early American Literature*, 3, 3:139-47.

The comparative literature syndrome. *Modern Language Journal*, 53, 2:110-16.

Shifting trends in narrative criticism. *Comparative Literature Studies*, 6, 3:225-29.

A Spanish precursor of *The Age of Reason*. In *Papers on French-Spanish, Luso-Brazilian, Spanish Literary Relations*, Elmhurst, Illinois, pp. 1-4.

Biography and Realism. *Les Problèmes des genres littéraires*, 11, 2:6-22.

Reviews

Le Thème de Faust dans la littérature européenne. IV Du Romantisme à nos jours. Partie 2. De 1880 à nos jours, by Charles Dédéyan. *Books Abroad*, 43, 1:71.

Le Paradis perdu 1667-1967, by Jacques Blondel. *Ibid.*, p. 80.

Jonathan Edwards: the narrative of a Puritan mind, by E. H. Davidson. *Seventeenth-Century News*, 27, 2:32-34.

Puritans and Pragmatists, by Paul K. Conkin. *American Historical Review*, 75, 1:220-01.

FREY, JOHN R., Professor

See Germanic Languages and Literatures.

JOST, FRANÇOIS, Professor

Articles

La Tradition du Bildungsroman. *Comparative Literature*, 21, 2:97-115.

La Littérature comparée et la réforme universitaire. *Schweizerische Hochschulzeitung* 42, 3:135-50.

With H. H. Remak, K. Bieber, P. Boerner

A literary history of Europe: approaches and problems. *Yearbook of Comparative and General Literature*, 17:85-99.

Reviews

Vielfältige welsche Schweiz, by Otto Frei. *Revue de psychologie des peuples*, 24, 3: 328-31.

Littérature générale et littérature comparée: Essai d'orientation, by Simon Jeune. *Comparative Literature Studies*, 6, 4:490-94.

Introduction to the Comparative Study of Literature, by Jan Brandt Corstius. *Ibid.*, pp. 493-94.

La littérature comparée, by Claude Pichois and André-M. Rousseau. *Ibid.*, pp. 494-97.

Einführung in die Vergleichende Literaturwissenschaft, by Ulrich Weisstein. *Ibid.*, pp. 497-500.

A Bibliography of Four Contemporary German-Swiss Authors: Friedrich Dürrenmatt, Max Frisch, Robert Walser, Albin Zolinger, by Elly Wilbert-Collins. *Ibid.*, 5, 3:365.

KNUST, HERBERT, Associate Professor

See Germanic Languages and Literatures.

MONTANO, ROCCO, Professor

See Spanish, Italian, and Portuguese.

DOCTORAL DISSERTATIONS

Cooper, Suzana R. (A. L. Altenbernd, Adviser), Art as deception: a study of some fictional characters of Thomas Mann and Henry James.

Rosenberg, Sondra. (F. Jost, Adviser), The wholly greater sum: a study of unity in the novel.

Rosenblithe, Anita R. (A. Holaday, Adviser), A comparison of the moral and aesthetic vision of three seventeenth-century dramatists: Corneille, Molière and Ben Jonson.

COMPUTER SCIENCE

ABEL, NORMA E., Research Programmer

Articles

With P. P. Budnik, D. J. Kuck, Y. Muraoka, R. S. Northcote, R. B. Wilhelmson

TRANQUIL: A language for an array processing computer. In *AFIPS conference proceedings*, 1969 Spring Joint Computer

Conference, AFIPS Press, New Jersey, 34:57-73.

BOWDON, EDWARD K., SR., Assistant Professor

Books

Modeling and analysis of a network of computers. University of Iowa, Iowa City, 91 pp.

Articles

Priority assignment in a network of computers—a digest. *Institute of Electrical and Electronic Engineers Computer Group Conference Digest*, IEE Publication Number 69C-30-C, pp. 60-66.

Priority assignment in a network of computers. *Institute of Electrical and Electronic Engineers Transactions on Computers*, C18, 11:1021-26.

CANCRO, ROBERT, Visiting Professor

Articles

Considerations on the evaluation of partial hospitalization programs. In *Partial hospitalization: problems, purposes and changing objectives*, ed. by Chen, Healey and Williams, State of Kansas, Topeka, pp. 151-60.

Computers and electronic devices in psychiatry. *American Journal of Psychotherapy*, 23:318-20.

Prospective prediction of hospital stay in schizophrenia. *Archives of General Psychiatry*, 20:541-46.

Conceptual plasticity and prognosis in acute schizophrenia. *Proceedings, American Psychological Association*, pp. 571-72.

Abstraction on proverbs in process-reactive schizophrenia. *Journal of Consulting and Clinical Psychology*, 33:267-70.

Clinical prediction of outcome in schizophrenia. *Comprehensive Psychiatry*, 10:349-54.

Automation: the second emancipation proclamation. *American Journal of Psychotherapy*, 23:657-66.

Electronic data processing in psychiatry. *Bulletin of the Menninger Clinic*, 34:12-22.

With H. M. Voth

Autokinesis and psychological differentiation. *Perceptual and Motor Skills*, 28:99-103.

With H. M. Voth, J. A. Segerson

Autokinesis and photic driving: their relationship to cortical excitability. *Behavioral Neuropsychiatry*, 1, 2:4-6.

With A. A. Sugeran

Psychological differentiation and process-reactive schizophrenia. *Journal of Abnormal Psychology*, 74:415-19.

With H. M. Voth, A. C. Voth

The propensity to the suicidal solution as a function of ego-closeness—ego-distance. *Archives of General Psychiatry*, 21:536-45.

CHAWLA, MAN M., Visiting Assistant Professor

Articles

On Davis's method for the estimation of errors of Gauss-Chebyshev quadratures. *SIAM Journal on Numerical Analysis*, 6, 1:108-17.

Estimation of errors of Gauss-Chebyshev quadratures. *The Computer Journal*, 13, 1:107-09.

FAIMAN, MICHAEL, Assistant Professor

Books Edited

With J. Nievergelt

Pertinent concepts in computer graphics. University of Illinois Press, Urbana, 439 pp.

Articles

With W. J. Poppelbaum, D. Casasent, D. S. Sand

On-line Fourier transform of video images. In 1969 *Institute of Electrical and Electronic Engineers international convention digest*, pp. 236-37.

FOSDICK, LLOYD D., Professor

Articles

With S. M. Chase

An algorithm for Filon quadrature. *Communications of the Association for Computing Machinery*, 12, 8:453-57.

Algorithm 353, Filon quadrature. *Communications of the Association for Computing Machinery*, 12, 8:457-58.

FRIEDMAN, H. GEORGE, JR., Assistant Professor

Articles

With E. J. Poziomek, E. B. Hackley, D. J. Hoy

Qualitative detection methods based on the liberation of ammonia from hexaminecobalt (III) perchlorate. *Microchemical Journal*, 14, 2:217-23.

GEAR, CHARLES W., Professor

Books

Computer organization and programming. McGraw-Hill Book Co., Inc., New York, 397 pp.

Articles

Graphical computer aided programming systems. In *Computer graphics, techniques and applications*, ed. by Parslow, Prowse and Green, Plenum Press, London, pp. 109-19.

A simple set of test matrices for eigen value programs. *Mathematics of Computation*, 23, 109:119-25.

Graphics in a time sharing environment. *Proceedings for the Skytop Conference on Computer Systems in Experimental Nuclear Physics*, Columbia University, New York, pp. 552-64.

The automatic integration of large systems of ordinary differential equations. *Proceedings of the 1969 Joint Conference on Mathematical and Computer Aids to Design*, ACM/SIAM/IEEE, pp. 27-58.

With C. A. Calahan

An ill conditioning problem with numerical integration. *Proceedings of IEEE*, 57, 10:1775-76.

KOGA, YOSHIAKI, Research Associate

Articles

With A. B. Carroll, M. Kato, K. Naemura

A method of diagnostic test generation. In *AFIPS conference proceedings*, 1969 Spring Joint Computer Conference, AFIPS Press, New Jersey, 34:221-28.

With H. Mine, T. Hasegawa, M. Ikeda, T. Shintani

Construction and analysis of tri-stable circuit and its application to ternary feed-back shift register. *Journal of the Institute of Electronics and Communication Engineers of Japan*, 52-C, 8:443-50.

KUBITZ, WILLIAM J., Assistant Professor

Articles

The tricolor cartograph. In *Pertinent concepts in computer graphics*, ed. by Faiman and Nievergelt, University of Illinois Press, Urbana, pp. 164-78.

With W. J. Poppelbaum

The tricolor cartograph. *Information Display, The Journal of the Society of Information Display*, 6, 6:76-79.

Graphical processors. *Naval Research Reviews*, 22, 2:20-29.

KUCK, DAVID J., Associate Professor

Articles

With N. E. Abel, P. P. Budnik, Y. Muraoka, R. S. Northcote, R. B. Wilhelmson

TRANQUIL: a language for an array processing computer. In *AFIPS conference proceedings, 1969 Spring Joint Computer Conference*, AFIPS Press, New Jersey, 34: 57-74.

With G. M. Ackins

Seismic signal processing via the Illiac IV computer. *IEEE Transactions on Geoscience Electronics, GE-7*, 1:34-41.

MARCEAU, IAN W., Research Assistant Professor

Articles

With R. J. Lermitt, J. C. McMillan, T. Yamamoto, S. S. Yardley

Linear programming on Illiac IV. In *Proceedings of the Fourth Australian Computer Conference*, Adelaide, South Australia, pp. 481-85.

MCCORMICK, BRUCE H., Professor

Articles

Advances in the development of image processing hardware. In *Image processing in biological sciences*, ed. by Diane M. Ramsey, UCLA Forum in Medical Sciences, No. 9, University of California Press, pp. 149-210.

With L. A. Dunn, L. N. Goyal, V. G. Tareski

Parametric description of a scan-display system. In *AFIPS conference proceedings, 1969 Spring Joint Computer Conference*, AFIPS Press, New Jersey, 34:187-206.

MONTANELLI, RICHARD G., JR., Instructor

Articles

With L. G. Humphreys, D. Ilgen, Diane McGrath

Capitalization on chance in rotation of factors. *Educational and Psychological Measurement*, 29, 2:259-71.

NIEVERGELT, JURG, Associate Professor

Books Edited

With M. Faiman

Pertinent concepts in computer graphics. University of Illinois Press, Urbana, 439 pp.

Articles

With F. Fischer, M. I. Irland, J. R. Sidlo

NUCLEOL—A minimal list processor. *Purdue Centennial Year Symposium on Information Processing*, April, pp. 92-103.

Reviews

Perceptrons: an introduction to computational geometry, by M. Minsky and S. Papert. *IEEE Transactions on Computers*, 18, 6:572.

NORTHCOTE, ROBERT S., Research Assistant Professor

Articles

Software development for the array computer ILLIAC IV. *Proceedings, Fourth Australian Computer Conference*, Adelaide, South Australia, pp. 313-19.

With N. E. Abel, P. P. Budnik, D. J. Kuck, Y. Muraoka, R. B. Wilhelmson

TRANQUIL: a language for an array processing computer. In *AFIPS Conference Proceedings, 1969 Spring Joint Computer Conference*, AFIPS Press, New Jersey, 34: 57-73.

POPPELBAUM, WOLFGANG J., Professor

Articles

With W. J. Kubitz

The tricolor cartograph. *Information Display, The Journal of the Society of Information Display*, 6, 6:76-79.

Graphical processors. *Naval Research Reviews*, 22, 2:20-29.

RAJAN, SURYANARAYANIAH, Research Associate

Articles

With R. A. Strehlow, R. E. Maurer

Transverse waves in detonations. I. Spacing in the hydrogen-oxygen system. *American Institute of Aeronautics and Astronautics Journal*, 7, 2:323.

SHER, MICHAEL S., Research Assistant Professor

Articles

With L. Heller

Proton-proton P-wave phase shifts at low energies. *Physical Review*, 182, 4:1031-34.

SNYDER, JAMES N., Professor

Articles

With P. G. Kruger

Calculations concerning superconducting accelerators. *Proceedings of the 1968 Summer Study on Superconducting Devices and Accelerators*, BNL 50155, USAEC, p. 1059.

Construction details for superconducting magnets for FFAG accelerators. *IEEE Transactions on Nuclear Science, N-5 16*, pp. 994-99.

YARDLEY, SERENA S., Research Programmer

Articles

With I. W. Marceau, R. J. Lermitt, J. C. McMillan, T. Yamamoto

Linear programming on Illiac IV. *Proceedings of the Fourth Australian Computer Conference*, Adelaide, South Australia, pp. 481-85.

COORDINATED SCIENCE LABORATORY

AHLBURN, BYRON T., Research Associate of Coordinated Science Laboratory and Physics

Articles

With A. K. Ramdas

Acceptor excitation spectra in p-type aluminum antimonide. *Physics Letters*, 29A, 3:135-36.

ALPERT, DANIEL, Professor of Physics and Dean of the Graduate College

See Graduate College.

ANNER, GEORGE E., Research Professor,
Coordinated Science Laboratory; Professor,
Electrical Engineering

Articles

- An infrared sensitive Ge-Te Heterojunction. *Proceedings of the IEEE*, 57, 12:2150-51.
Avalanche luminescence in CdS-Te heterojunctions. *Ibid.*, 6:1219-20.

BITZER, DONALD L., Research Professor
of Coordinated Science Laboratory,
Director of Computer-based Education
Research Laboratory, and Professor
of Electrical Engineering

Articles

With H. G. Slotow

- The plasma display panel — a new device for direct display of graphics. *Emerging Concepts in Computer Graphics*, ed. by D. Secret and J. Nievergelt, W. A. Benjamin, Inc., New York, pp. 3-28.
Design aspects of computer-based education. *Journal of Engineering Education*, 59: 482-84.

BOHMER, HEINRICH, Research Assistant
Professor of Coordinated Science
Laboratory and Assistant Professor
of Physics

Articles

With M. J. Raether

- Experiments on the interaction of a strong electron beam with a plasma. In *Nonlinear effects in plasmas*, ed. by Kalman and Feix, Gordon and Breach, London, pp. 489-501.
Observation of surface modes excited by an electron beam in a plasma. *Physics Letters*, 29A:302-03.

With J. Chang, M. J. Raether

- Collisional damping of the high frequency instability in a beam-plasma systems. *Plasma Physics*, 11:645-54.

BOUKNIGHT, W. JACK, Research Engineer
of Coordinated Science Laboratory

Articles

With L. P. Kadanoff, J. R. Voss

- A city grows before your eyes. *Computer Decisions*, 1, 3:16-23.

BULLEN, ALLEN G. R., Research Assistant
Professor of Coordinated Science
Laboratory and Assistant Professor
of Civil Engineering

Articles

With R. D. Worrall, Y. Guv

- Lane changing in multi-lane freeway traffic. *Highway Research Record*, 279:160.

With R. D. Worrall, S. Robertson

- A simulation model of lane changing on a multi-lane highway. *Highway Research Record*, 279:161.

CHIEN, ROBERT T., Research Professor of
Coordinated Science Laboratory and
Professor of Electrical Engineering

Articles

- Burst-correcting codes with high-speed decoding. *IEEE Transactions on Information Theory*, IT-15, 1:109-13.

With K. K. M. Tseng

- Cyclic codes for solid burst error correction. *Proceedings of the Third Annual Princeton Conference on Information Sciences and Systems*, pp. 545-46.

With B. D. Cunningham, I. B. Oldham

- Hybrid methods for finding roots of a polynomial — with application to BCH decoding. *IEEE Transactions on Information Theory*, IT-15, 2:239-335.

With L. R. Bahl

- On Gilbert burst-error-correcting codes. *Ibid.*, 3:431-32.

- Multiple-burst-error-correction by threshold decoding. *Information and Control*, 15, 5:397-406.

COMPTON, W. DALE, Director of
Coordinated Science Laboratory and
Professor of Physics

Articles

With B. G. Streetman, N. Holonyak, Jr.,
H. V. Kroe

- Current oscillations in si p-i-n devices after irradiation with one-MeV electron. *Applied Physics Letters*, 14:63.

With E. L. Wolf

- A practical evaporator fixture for vacuum cleavage of semiconductor crystals. *Review of Scientific Instruments*, 40, 11:1497-98.

COOPER, DUANE H., Research Associate
Professor of Coordinated Science
Laboratory and Associate Professor of
Electrical Engineering and Physics

Articles

- Hertzian contact-stress deformation coefficients. *Transactions of the ASME: Journal of Applied Mechanics*, Series E, 36: 296-303.

- On the interaction of tracing correction with a bandwidth limitation. *Journal of Audio Engineering Society*, 17:2.

CRUZ, JOSE B., Research Professor of
Coordinated Science Laboratory and
Professor of Electrical Engineering

Books

With W. R. Perkins

- Engineering of dynamic systems. John Wiley and Sons, Inc., New York, 256 pp.

Articles

With R. A. Werner

- Feedback control with preserves optimality for systems with unknown parameters. *IEEE Transactions on Automatic Control*, AC-13, 6:621-29.

With P. V. Kokotović

- An approximation theorem for linear optimal regulators. *Journal Math Analysis and Applications*, 27, 2:249-52.

With J. E. Heller, J. Medanica

- An algorithm for minimax design. In *Proceedings first international conference on the theory and applications of differential games*, Amherst, Massachusetts, II-25 to II-30.

With A. H. Haddad, P. V. Kokotović

- Design of control systems with uncertain parameters. In *Proceedings third annual Princeton conference on information sciences and systems*, Princeton, New Jersey, pp. 216-22.

With P. V. Kokotović, W. R. Perkins, G. D'Ans

- A decoupling method for approximate solution of large scale Riccati equations. *Proceedings of Second Hawaii International Conference on System Sciences*, Honolulu, pp. 791-94.

- c-coupling method for near-optimum of large scale systems. *Proceedings IEE*, 116, 5: 889-92.

DUKE, CHARLES B., Research Professor of Coordinated Science Laboratory and Professor of Physics

Books

Tunneling in solids. Academic Press, New York, 353 pp.

Articles

Theory of metal-barrier-metal tunneling. *Proceedings of NATO Advanced Study Institute on Tunneling Phenomena in Solids*, Plenum Press, New York, p. 31.

A unified theory of zero-bias anomalies and energy loss mechanisms in the barrier. *Ibid.*, p. 405.

Electronic structure of clean metallic interfaces. *Journal of Vacuum Science and Technology*, 6:152.

Plasmon excitation by electron tunneling. *Physical Review*, 186:588-90.

With C. W. Tucker, Jr.

Multiple scattering description of intensity profiles. *Physical Review Letters*, 23:1163.

Inelastic-collision model of low-energy electron diffraction from solid surfaces. *Surface Science*, 15:231.

With M. J. Rice, F. Steinrissler

Tunneling measurement of electron-plasmon interaction in degenerate semiconductors. *Physical Review*, 181:733.

With T. Soules

A solvable model of energy transfer between electronic states which interact with a boson field. *Physics Letters*, 29A:117.

With L. C. Davis

Analysis of tunneling measurement of electronic self-energies due to interactions of electrons and holes with optical phonons in semi-conductors. *Physical Review*, 184:764-79.

HADDAD, ABRAHAM H., Research Assistant Professor of Coordinated Science Laboratory and Assistant Professor of Electrical Engineering

Articles

With J. V. Bodycomb

Some properties of a predictive quantizing system. *Proceedings 3rd Annual Princeton Conference on Information Sciences and Systems*, pp. 61-65.

With P. V. Kokotovic, J. B. Cruz, Jr.

Design of control systems with uncertain parameters. *Proceedings 3rd Annual Princeton Conference on Information Sciences and Systems*, pp. 216-22.

HICKS, BRUCE L., Research Professor of Coordinated Science Laboratory and Computer-based Education Research Laboratory; Professor of Aeronautical and Astronautical Engineering and Education

Articles

With S. M. Yen

Solutions of the non-linear Boltzmann equation for plane shock waves. *Proceedings of the Sixth International Symposium on Rarefied Gas Dynamics*. Academic Press, New York, pp. 313-17.

KARR, GERALD R., Research Assistant Professor of Coordinated Science Laboratory and Assistant Professor of Aeronautical and Astronautical Engineering

Articles

With Shee-Mang Yen

Aerodynamic torque on a spinning spherical

satellite with application to measurement of accommodation coefficient. *Astronautica Acta*, 14:131-42.

KOKOTOVIĆ, PETAR V., Research Associate Professor of Coordinated Science Laboratory and Associate Professor of Electrical Engineering

Articles

With J. Heller, P. Sannuti

Sensitivity comparison of optimal controls. *International Journal of Control*, 9, 1:111-15.

With P. Sannuti

Near-optimum design of linear systems by a singular perturbation method. *IEEE Transactions on Automatic Control*, AC-14, 1:15-21.

Singular perturbation method for near-optimum design of high order nonlinear systems. *Proceedings of the IV Congress of IFAC*, Warsaw, Poland, 68:70-81.

Singular perturbation method for near-optimum design of high order nonlinear systems. *IFAC Journal Automatica*, 5, 6:773-80.

With G. D'Ans

Parameter imbedding design of linear optimal regulators. *Proceedings of the 3rd Princeton Conference on Information Sciences and Systems*, pp. 378-79.

With A. Haddad, J. B. Cruz

Design of systems with uncertain parameters. *Ibid.*, pp. 216-22.

With P. Dorato, H. Kwakernaak

Report on the second IFAC symposium on system sensitivity and adaptivity. *IFAC Journal Automatica*, 5, 3:251-56.

With W. R. Perkins, J. B. Cruz, G. D'Ans

c-Coupling method for near optimum design of large scale linear systems. *Proceedings of the IEE*, London, 116, 5:889-92.

With D. Salmon

Design of linear feedback controllers for nonlinear plants. *IEEE Transactions on Automatic Control*, AC-14, 3:289-92.

With J. B. Cruz, Jr.

An approximation theorem for linear optimal regulators. *Journal of Mathematical Analysis and Applications*, 27, 2:249-52.

KRONE, HENRY V., Research Engineer of Coordinated Science Laboratory

Articles

With B. G. Streetman, N. Holonyak, Jr., W. D. Compton

Current oscillations in si p-i-n devices after irradiation with one-MeV electrons. *Applied Physics Letters*, 14, 2:63-65.

MAYEDA, WATARU, Research Professor of Coordinated Science Laboratory and Professor of Electrical Engineering

Articles

With C. V. Ramamoorthy

Distinguishability criteria in oriented graphs and their application to computer diagnosis-I. *IEEE Transactions on Circuit Theory*, CT-16:448-54.

Computerized data communication system and vertex weighted linear graph. *Proceedings of the 3rd International Conference on System Science*, pp. 1032-35.

METZE, GERNOT A., Research Associate Professor of Coordinated Science Laboratory and Associate Professor of Electrical Engineering

Articles

With D. R. Schertz

The use of connection graphs for the detection of digital faults. *Proceedings 7th Annual Allerton Conference on Circuit and Systems Theory*, pp. 261-69.

With A. S. Wojcik

Cost considerations of base N adders using N-valued logic elements. *Proceedings 7th Annual Allerton Conference on Circuit and Systems Theory*, pp. 680-87.

PERKINS, WILLIAM R., Research Professor of Coordinated Science Laboratory and Professor of Electrical Engineering

Books

With J. B. Cruz, Jr.

Engineering of dynamic systems. John Wiley and Sons, Inc., New York, 568 pp.

Articles

With P. Kokotovic, J. B. Cruz, Jr., G. D'Ans

A decoupling method for approximate solution of large scale Riccati equations. *Proceedings of Second Hawaii International Conference on System Sciences*, pp. 791-94.

Decoupling method for near optimum design of large linear systems. *Proceedings of Institution of Electrical Engineers*, 116, 5:889-92.

With D. F. Wilkie

Essential parameters in sensitivity analysis. *Automatica, The IFAC Journal*, 5:191-97.

Generation of sensitivity functions for linear systems using low order models. *IEEE Transactions on Automatic Control*, AC-14, 2:123-30.

Design of model following systems using the companion transformation. *Automatica, The IFAC Journal*, 5:615-22.

PROPST, FRANKLIN M., Research Associate Professor of Coordinated Science Laboratory; Associate Professor of Physics; Associate Director for Planning, Computer-based Education Research Laboratory

Books Edited

Proceedings of the fifth national symposium of the American vacuum society. In *Journal of vacuum science and technology*, American Institute of Physics, New York, 277 pp.

Proceedings of the international conference on thin films of the American vacuum society. *Ibid.*, 356 pp.

RAETHER, MANFRED J., Research Professor of Coordinated Science Laboratory and Professor of Physics

Articles

With H. Bohmer

Observation of surface modes excited by an electron beam in a plasma. *Physics Letters*, 29A:302.

Experiments on the interaction of a strong electron beam with a plasma. *Nonlinear effects in plasmas*, ed. by G. Kalman and M. R. Feix, Gordon and Breach, New York, pp. 489-501.

With H. Bohmer, J. Chang

Collisional damping of the high frequency instability in a beam plasma system. *Plasma Physics*, 11:645.

With M. Fujiwara, M. Yamada

Influence of collisions on the ion-acoustic instability in a weakly ionized plasma. *Journal of the Physical Society of Japan*, 27:745.

SKAPERDAS, DOMINIC O., Senior Research Engineer of Coordinated Science Laboratory

and Associate Director of Computer-based Education Research Laboratory

Articles

With E. A. Mechtly, M. Mukanda, L. G. Smith
Latitude variation of the lower ionosphere. *Radio Science*, 4, 6:517-20.

TRICK, TIMOTHY N., Research Assistant Professor of Coordinated Science Laboratory and Assistant Professor of Electrical Engineering

Books Edited

With A. H. Haddad, G. A. Metzger

Proceedings of the Seventh Annual Allerton Conference on Circuit and System Theory. Lithcrafters, Ann Arbor, Michigan, 919 pp.

Articles

Asymptotic stability of a class of networks containing a nonlinear time-varying capacitor and periodic inputs. *IEEE Transactions on Circuit Theory*, 16, 2:217-19.

With J. J. Bourquin

Stability of a class of lumped-distributed systems. *Journal of the Franklin Institute*, 287, 5:363-78.

Transient analysis of distributed systems. *Proceedings of the IEEE*, 57, 6:1189-90.

With D. R. Anderson

Stability of nonlinear networks. *IEEE Transactions on Circuit Theory*, 16, 3:302-11.

With J. Vlach

Computer-aided design of distributed networks with complex terminations. *Proceedings of the Second Biennial Cornell Electrical Engineering Conference — Computer Electronics*, 2:249-59.

VON FOERSTER, HEINZ M., Research Professor of Coordinated Science Laboratory and Professor of Electrical Engineering

Books Edited

With J. W. Beauchamp

Music by computers. John Wiley and Sons, New York, 139 pp.

Articles

Sounds and music. *Music by Computers*. John Wiley and Sons, New York, pp. 3-10.

What is memory that it may have hindsight and foresight as well? In the future of the brain sciences. *Proceedings of the Third International Conference*, ed. by Bogoch, Plenum Press, New York, pp. 16-64.

WAX, NELSON, Research Professor of Coordinated Science Laboratory and Professor of Electrical Engineering

Articles

A resolution of a circuit paradox. *Proceedings of IEEE*, 56, 11:2073-76.

A spate of "paradoxes." *Ibid.*, 57, 4:207.

YEN, SHEE-MANG, Research Professor of Coordinated Science Laboratory and Professor of Aeronautical and Astronautical Engineering

Articles

Numerical methods for solving rarefied gas flow problems. *Applied Mechanics Reviews*, 22, 6:557-64.

With H. J. Schmidt

Monte Carlo solutions of the Boltzmann equation for heat transfer problems. *Proceedings of Sixth International Symposium on Rarefied Gas Dynamics*, 1:205-13.

With B. L. Hicks

Solutions of the nonlinear Boltzmann equation for plane shock waves. *Ibid.*, pp. 313-17.

DAIRY SCIENCE

BROWN, RICHARD E., Professor

Articles

Introductory remarks. Ninth Annual Ruminant Nutrition Conference. *Federation Proceedings*, 28, 1:216-17.

The conversion of nutrients into milk. In *Proceedings of Third Nutrition Conference for Feed Manufacturers*, University of Nottingham, ed. by Swan and Lewis, J. and A. Churchill Ltd., London, pp. 23-35.

With M. M. A. Al-Shabibi, J. Tobias

Uptake of labeled long chain fatty acids *in vivo* and *in vitro* by different phospholipids in milk. *Journal of Dairy Science*, 52, 2: 146-51.

With D. L. Palmquist, C. L. Davis, D. S. Sachan

Availability and metabolism of various substrates in ruminants. V. Entry rate into the body and incorporation into milk fat of D(-) β -hydroxybutyrate. *Ibid.*, 5:633-38.

BRYANT, MARVIN P., Professor

Articles

The rumen and its microbes. *Georgia Nutrition Conference Proceedings*, pp. 1-14.

With K. J. Cheng, G. A. Jones, F. J. Simpson

Isolation and identification of rumen bacteria capable of anaerobic rutin degradation. *Canadian Journal of Microbiology*, 15, 12: 1365-71.

With R. H. McBee, J. L. Johnson

Ruminal microorganisms from elk. *The Journal of Wildlife Management*, 33, 1:181-86.

With B. D. Mishra, E. E. Bartley, L. R. Fina

Bloat in cattle. XIV. Micinolytic activity of several anaerobic rumen bacteria. *Journal of Animal Science*, 27, 6:1651-56.

With A. D. Tiwari, R. S. Wolfe

Simple method for isolation of *Selenomonas ruminantium* and some nutritional characteristics of the species. *Journal of Dairy Science*, 52, 12:2054-56.

DAVIS, CARL L., Professor

Articles

With H. F. Bucholtz, D. L. Palmquist, K. A. Kevdall

Study of the low-fat milk phenomenon in cows grazing pearl millet pastures. *Journal of Dairy Science*, 52, 9:1388-94.

With D. L. Palmquist, R. E. Brown, D. S. Sachan

Availability and metabolism of various substrates in ruminants. V. Entry rate into the body and incorporation into milk fat of D(-) β -hydroxybutyrate. *Ibid.*, 5:633-38.

With D. S. Sachan

Hydrogenation of linoleic acid by a rumen spirochete. *Journal of Bacteriology*, 98, 1: 300-01.

GRAVES, CHARLES N., Associate Professor

Articles

With G. W. Salisbury, J. R. Lodge

Effects of storage time and temperature on fertility of bovine spermatozoa. *Illinois Research*, 11, 1:6-7.

With R. A. Todorovic, G. W. Salisbury

Aging phenomena in spermatozoa. IV. Immunoserologic characterization of the deoxyribonucleic acid-protein extracted from fresh and aged bovine spermatozoa. *Journal of Dairy Science*, 52, 9:1415-21.

KENDALL, KENTON A., Professor

Articles

With H. F. Bucholtz, C. L. Davis, D. L. Palmquist

Study of the low-fat milk phenomenon in cows grazing pearl millet pastures. *Journal of Dairy Science*, 52, 9:1388-94.

LARSON, BRUCE L., Professor

Articles

Biosynthesis of milk. *Journal of Dairy Science*, 52, 5:737-47.

LODGE, J. ROBERT, Professor

Articles

With G. W. Salisbury, C. N. Graves

Effects of storage time and temperature on fertility of bovine spermatozoa. *Illinois Research*, 11, 1:6-7.

ORMISTON, EMMETT E., Professor

Articles

With S. L. Spahr

The promise and problems of sorghum-sudan hybrids. *Illinois Research*, 11, 3:3-4.

SALISBURY, GLENN W., Professor

Articles

With J. R. Lodge, C. N. Graves

Effects of storage time and temperature on fertility of bovine spermatozoa. *Illinois Research*, 11, 1:6-7.

With R. A. Todorovic, C. N. Graves

Aging phenomena in spermatozoa. IV. Immunoserologic characterization of the deoxyribonucleic acid-protein extracted from fresh and aged bovine spermatozoa. *Journal of Dairy Science*, 52, 9:1415-21.

SPAHR, SIDNEY L., Assistant Professor

Articles

With E. E. Ormiston

The promise and problems of sorghum-sudan hybrids. *Illinois Research*, 11, 3:3-4.

TOUCHBERRY, ROBERT W., Professor

Articles

With T. R. Batra, H. W. Norton

Genetic study of milk constituents in purebred and crossbred dairy cattle. *Journal of Animal Science*, 29, 5:671-77.

WOLIN, MEYER J., Professor

Articles

Volatile fatty acids and the inhibition of *Escherichia coli* growth by rumen fluid. *Applied Microbiology*, 17, 1:83-87.

With R. A. Niederman

Chemical constituents and hydrogenase binding in cell envelopes of *Vibrio succinogenes*. *Journal of Bacteriology*, 98, 1:160-66.

With L. Yu

Hydrogenase measurement with photochemically reduced methyl viologen. *Ibid.*, pp. 51-55.

DOCTORAL DISSERTATIONS

Bauman, Dale E. (R. E. Brown, Adviser), Fatty acid synthesis in the bovine mammary gland.

Burke, Charles R. (H. P. Broquist, Adviser), Entries into the aminoadipic acid pathway of lysine biosynthesis.

Genskow, Roy D. (K. E. Harshbarger, Adviser), Evaluation of a low ash fish protein

concentrate for use in calf milk replacer formulas.

Markos, Harry G. (R. W. Touchberry, Adviser), Distribution of estimates of heritability and genetic correlation derived from random samples from a large population of HIR records.

Snyder, John J. (H. P. Broquist, Adviser), Role of piperolic acid in the biosynthesis of slaframine.

DEAN OF STUDENTS' OFFICE

HASTINGS, J. BRAD, Assistant to the Director of Teacher Education Services

Articles

Some responses to a social questionnaire from incarcerated lab adolescence. *Adolescence*, 4, 15:431-44.

ECONOMIC AND BUSINESS RESEARCH

BASSIE, V LEWIS, Director of Bureau and Professor of Economics

Books

With H. H. H. Afif

Water pricing theory and practice in Illinois. University of Illinois Bureau of Economic and Business Research, Urbana, 153 pp.

Articles

Monetary oversimplification. *Illinois Business Review*, 26, 1:2-8.

The slowdown of 1969. *Ibid.*, 2:2-8.

New subsidies in prospect. *Ibid.*, 3:2-8.

The peak in interest rates. *Ibid.*, 4:2-8.

Gold speculation spells trouble. *Ibid.*, 5:2-8.

Economic prospects reappraised. *Ibid.*, 6:2-8.

Some uncertainties for housing. *Ibid.*, 7:2-8.

World money becoming reality. *Ibid.*, 8:2.

Unemployment versus inflation. *Ibid.*, 9:2.

A reckoning for capital outlays. *Ibid.*, 10:2.

Inflation, taxes, and lender's incomes. *Ibid.*, 11:2-8.

Reviews

Forecasting and recognizing cycle turning points, by Fels and Hinshaw. *Journal of Business*, 42, 3:364-65.

GUTHRIE, HAROLD W., Professor

Articles

Teachers in the moonlight. *Monthly Labor Review*, 92, 2:28-31.

With R. Ferber, J. Forsythe, E. S. Maynes

Validation of consumer financial characteristics: common stock. *Journal of the American Statistical Association*, 64, 326: 415-32.

Validation of a national survey of consumers financial characteristics: savings accounts. *The Review of Economics and Statistics*, 51, 4:436-44.

Reviews

Consumer responses to income increases, by George Katona and Eva Mueller. *Journal of Economic Literature*, 7, 3:874-75.

PHILLIPS, JOSEPH D., Professor

Articles

Economic effects of the cold war. In *Corporations and the cold war*, ed. by David Horowitz, Monthly Review Press, New York, pp. 173-203.

SCHILLER, HERBERT I., Professor

Books

Mass communications and American empire. Augustus M. Kelley, New York, 170 pp.

Articles

International communications, national sovereignty and domestic insurgency. In *Mass media and international understanding*, School of Sociology, Political Science and Journalism, Ljubljana, Yugoslavia, pp. 92-100.

The mass media and the public interest. In *Television today: the end of communication and the death of community*, Institute for Policy Studies, Washington, D. C., pp. 53-69.

A new klondike for an old complex. *The Progressive*, 33, 5:32-35.

Television comes to Israel. *Educational Broadcasting Review*, 3, 4:45-52.

Reviews

Western economic warfare 1947-1967: a case study in foreign policy, by Gunnar Adler-Karlsson. *Bulletin of the Atomic Scientists*, 25, 8:44-46.

The information machine, by Robert E. Elder. *AV Communication Review*, 17, 3:331-33.

ECONOMICS

ARNOULD, RICHARD J., Assistant Professor

Articles

Conglomerate growth and profitability. In *Economics of conglomerate growth*, ed. by Leon Garoian, Oregon State University, Corvallis, pp. 72-81.

Bulletins and Technical Reports

Diversification and profitability among large food processing firms, Agriculture Economic Report 171, Economic Research Service, U.S. Department of Agriculture, 44 pp.

AYAL, ELIEZER B., Professor

Books

With F. H. Golay, R. Anspach, R. Pfanner
Underdevelopment and economic nationalism in Southeast Asia. Cornell University Press, Ithaca, New York, 494 pp.

BREMS, HANS J., Professor

Articles

Udviklingslinjer i makroøkonomisk teori. *Nationaløkonomisk Tidsskrift*, 107, 1-2:43-48.

DUCHAN, ALAN I., Instructor

Articles

A relationship between the F and t statistics and the simple correlation coefficients in classical least squares regression. *The American Statistician*, 23, 3:27-28.

DUE, JOHN F., Professor

Articles

Policy for financing economic development. In *Planning Domestic and External Resources for Investment*, United Nations, New York, pp. 73-109.

Application of sales taxes to producers goods. *Canadian Tax Journal*, 17, 5:345-60.

The Somers solution to the use tax. *National Tax Journal*, 22, 2:301.

The Uganda sales tax on importation and manufacture. *Eastern Africa Economic Review*, 1, 1:1-16.

Reviews

Transport economies in developing economies,

by A. R. Prest. *Quarterly Review of Economics and Business*, 9:84-86.

FERBER, ROBERT, Professor

See Survey Research Laboratory.

FOLK, HUGH W., Professor

See Labor and Industrial Relations.

GILLESPIE, ROBERT W., Associate Professor

Reviews

Monetary reform and the price of gold, ed. by R. Hinshaw. *Southern Economic Journal*, 35:196-97.

HARBESON, ROBERT W., Professor

Articles

Intermodal competition in transportation and economic development. *Nebraska Journal of Economics and Business*, 8, 2:32-47.

The Supreme Court and intermodal rate competition. *ICC Practitioners Journal*, 36, 3: 1487-95.

Toward better resource allocation in transport. *Journal of Law and Economics*, 12, 2:321-38.

Reviews

American railroad politics, 1914-1920: rates, wages, and efficiency, by K. Austin Kerr. *Business History Review*, 43:243-44.

HARTMAN, PAUL T., Associate Professor

Books

Collective bargaining and productivity. University of California Press, Berkeley, 307 pp.

With H. Folk

Pensions and severance pay for displaced defense workers. U.S. Arms Control and Disarmament Agency, Washington, D.C., 173 pp.

Articles

Labor unions. In *Collier's year book for 1969*. Crowell-Collier Corporation, New York, pp. 329-32.

Reviews

Economics of dissent, by Ben B. Seligman. *Industrial and Labor Relations Review*, 23: 124-25.

HEINS, A. JAMES, Professor

Articles

A proposal for improving the Illinois tax structure. In *Report of Governor's revenue study committee 1968-69*, State of Illinois, pp. 250-53.

Revenue estimates for a state income tax in Illinois and status of income taxes in other states. *Ibid.*, pp. 254-83.

Estimated corporate income tax revenues in Illinois. *Ibid.*, pp. 284-87.

Articles

With C. S. Sprenkle

A comment on the Modigliani-Miller cost of capital thesis. *American Economic Review*, 59, 4:590-92.

With R. A. Haugen

A market separation theory of rent differentials in metropolitan areas. *Quarterly Journal of Economics*, 83, 4:660-72.

The effects of the personal income tax on the stability of equity value. *National Tax Journal*, 22, 4:466-71.

HODGMAN, DONALD R., Professor

Articles

Discussion of alternative measures of the real

output and productivity of commercial banks. In *Production and Productivity in the service industries*, National Bureau of Economic Research, pp. 189-95.

JUDGE, GEORGE G., Professor

Articles

A sampling study of the properties of estimators of transition probabilities. *Management Science (Theory)*, 15:374-98.

With T. C. Lee, A. Zellner

Some alternative estimators of transition probabilities. *Journal of American Statistical Association*, 63:1162-79. 1968.

With T. C. Lee, R. Cain

A Monte Carlo sampling study. *Management Science*, 15:374-97.

KEMMERER, DONALD L., Professor

Articles

Cases on business history in the west. In *Papers of the 16th business history conference*, ed. by Charles J. Kennedy, University of Nebraska, Lincoln, p. 93.

Reviews

The comptroller and bank supervision: a historical appraisal, by Ross M. Robertson. *Journal of Economic History*, 29, 2:391-92.

MOYER, M. EUGENE, Assistant Professor

Articles

With D. W. Paden

The relative effectiveness of three methods of teaching economics. *The Journal of Economic Education*, 1, 1:33-45.

NEAL, LARRY DWIGHT, Assistant Professor

Articles

Investment behavior by American railroads: 1897-1914. *Review of Economics and Statistics*, 51, 2:126-35.

Reviews

The New York money market and the finance of trade, 1900-1913, by C. A. E. Goodhart. *Business History Review*, 43:225-26.

NOURSE, HUGH O., Professor

Articles

Is there an economic solution to the air pollution problem. *Newsletter*, Bureau of Community Planning, University of Illinois, Urbana, 9, 5:4.

Reviews

Systems simulation for regional analysis: an application to river-basin planning, by H. R. Hamilton and others. *Quarterly Review of Economics and Business*, 9, 4:89-92.

PADEN, DONALD W., Professor

Articles

With M. E. Moyer

The relative effectiveness of three methods of teaching principles of economics. *Journal of Economic Education*, 1, 1:33-45.

RESEK, ROBERT W., Associate Professor

Articles

Aggregate demand for securities and the specification of prior statistical information. *American Statistical Association 1969 Proceedings (Business and Economic Statistics Section)*, pp. 577-79.

SCHRAN, PETER, Professor

Books

The development of Chinese agriculture, 1950-1959. University of Illinois Press, Urbana, 238 pp.

SCOVILLE, JAMES G., Associate Professor
See Labor and Industrial Relations.

SHUPP, FRANKLIN R., Associate Professor
Articles

Economic models, shadow prices, and benefit-cost analysis. In *Advanced civil engineering planning technology*, ed. by Chow and Ewing, University of Illinois, Urbana, pp. 63-73.

Reviews

Policy simulation with an econometric model, by Gary Fromm and Paul Taubman. *Quarterly Review of Economics and Business*, 9, 4:92.

SIMON, JULIAN L., Professor

Books

Basic research methods in social science. Random House, New York, 550 pp.

With H. H. Fussler

Patterns of use of books in large research libraries. University of Chicago Press, Chicago, 330 pp.

Articles

Produce differentiation — a meaningful term and an impossible concept. *Ethics*, 79:131-38.

Does "good portfolio management" exist? *Management Science*, 15:B-308-19.

Further evidence on the effect of scale in advertising. *Journal of Advertising Research*, 9:38-41.

The value of avoided births to underdeveloped countries. *Population Studies*, 23:61-68.

A really new way to teach (and do) probability statistics. *The Mathematics Teacher*, 62:283-88.

The effect of advertising on liquor brand sales. *Journal of Marketing Research*, 6:301-13.

The effect of income upon fertility. *Population Studies*, 23:327-41.

A further test of the kinky oligopoly demand curve. *American Economic Review*, 59:971-75.

How to divide the retail advertising budget among merchandising divisions: a scientific program. *Journal of Retailing*, 45:37-45.

The profitability of mergers in advertising agencies. *Bulletin of the Oxford Institute of Economics and Statistics*, 31, 2:139-44.

With D. Gardner

The new proteins and world food needs. *Economic Development and Cultural Change*, 17:520-26.

SPRENKLE, CASE M., Associate Professor

Articles

Laidler's "definition of money," a comment. *Journal of Money, Credit and Banking*, 1, 3:526-30.

The uselessness of transactions demand models. *Journal of Finance*, 24, 5:835-47.

With A. J. Heins

A comment on the Modigliani-Miller cost of capital thesis. *American Economic Review*, 59, 4:590-92.

TAIRA, KOJI, Professor

Articles

Urban poverty, ragpickers and the "Ants' Villa" in Tokyo. *Economic Development and Cultural Change*, 17, 2:155-77.

Classes, poverty and public policy. (Japanese text) *Shakai hoshu kenkyu* (Studies in Social Security), 4, 4:23-28.

Consumer preferences, poverty norms, and ex-

tent of poverty. *Quarterly Review of Economics and Business*, 9, 2:31-44.

Duality, squatters, and development. *Tijdschrift voor Sociale Wetenschappen*, 14, 4:122-36.

Industrial revolution and factory labor in Japan. *Memorandum 82*, Research Center in Economic Growth, Stanford University, Stanford, California, 86 pp.

With P. Kilby

Differences in social security development in selected countries. *International Social Security Review*, 22, 2:139-53.

WILLIAMSON, HAROLD F. JR., Assistant Professor

Articles

Scale and "industrial reorganization" economics of transport improvement. *Journal of Transport Economics and Policy*, 3, 3:251-71.

YEUNG, PATRICK, Assistant Professor

Articles

Unifying elements in the theories of the firm. *Quarterly Review of Economics and Business*, 9, 4:21-28.

DOCTORAL DISSERTATIONS

Ankli, Robert E. (D. L. Kemmerer, Adviser), Gross farm revenue in pre-Civil War Illinois.

Ault, David E. (H. J. Brems, Adviser), The determinants of world steel exports: an empirical study.

Boie, John M. (H. J. Brems, Adviser), Testing the behavior implications of profit maximization in manufacturing firms.

Duell, Dennis, C. (D. R. Hodgman, Adviser), The Mexican tariff structure and development goals: an analysis within the framework of the effective protective rate.

Ghandour, Marwan M. (M. Frankel, Adviser), An optimal control model of capital accumulation and development following a Soviet strategy.

Jesswein, Wayne A. (R. W. Harbeson, Adviser), United States and United Kingdom ocean transportation rate structures and effective natural protection.

Kabis, Zeinhom M. M. (H. J. Brems, Adviser), African economic integration as a stimulus for economic development.

Mikesell, John L. (J. F. Due, Adviser), An analysis of municipal sales taxation.

Owen, Virginia L. (D. R. Hodgman, Adviser), The error learning hypothesis and the forward exchange rate.

Rupley, Lawrence A. (J. F. Due, Adviser), Planning government revenue and expenditure in western Nigeria, 1955-1968.

Song, Yoon K. (M. Frankel, Adviser), A quantitative model for the Korean economy.

Swan, Philip L. (A. J. Heins, Adviser), Technical change and trade in the rubber market.

EDUCATION

ALEAMONI, LAWRENCE M., Associate Professor

See Instructional Resources.

ANDERSON, RICHARD C., Professor

Books

With G. Faust, M. Roderick, D. Cunningham, T. Andre

Current research on instruction. Prentice-Hall, Englewood Cliffs, New Jersey, 396 pp.

With G. Faust, J. Guthrie, V. Drantz
Population genetics. Silver Burdett Co.,
Morristown, New Jersey, 59 pp.

Articles

The comparative field experiment: an illustration from high school biology. In *Proceedings of the 1968 invitational conference on testing problems*, Educational Testing Service, Princeton, New Jersey, pp. 3-30.

With G. Faust, M. Roderick

A brief report of the field test of a program in population genetics. *Biological Sciences Curriculum Study Newsletter*, 35:24-25.

With G. Watts

Retroactive inhibition in free recall as a function of first and second list organization. *Journal of Experimental Psychology*, 81:595-97.

Bidirectional associations in multitrail free recall. *Psychonomic Science*, 15:288-89.

ASHENFELTER, JOHN W., Instructor

Articles

A partially learner-paced approach to teaching PSSC physics. *The Physics Teacher*, 7, 2:93-98.

ATKIN, J. MYRON, Dean of the College and Professor

Books

With S. P. Wyatt, Jr.

Charting the universe. Harper and Row, New York, 87 pp.

The universe in motion. *Ibid.*, 196 pp.

Gravitation. *Ibid.*, 112 pp.

The message of starlight. *Ibid.*, 112 pp.

The life story of a star. *Ibid.*, 96 pp.

Galaxies and the universe, *Ibid.*, 110 pp.

Articles

On looking gift horses in the mouth: the federal government and the schools. *Educational Forum*, 34, 1:9-20.

With R. W. Burnett

Science education. In *Encyclopedia of educational research* (4th ed.), The Macmillan Co., New York, pp. 1192-1206.

BAHLKE, SUSAN J., Assistant Professor

Articles

With J. F. Feldhusen, D. J. Treffinger

Teaching creative thinking. *The Elementary School Journal*, 70, 1:48-53.

BALDWIN, THOMAS S., Associate Professor

Articles

The development of some objective measures of performance for selected post high school trade and technical programs. *Journal of Industrial Teacher Education*, 6, 3:74-83.

BARNES, FRED P., Professor

Articles

We are all researchers. In *Educational research*, ed. by W. J. Gephart and R. B. Ingle, Charles E. Merrill, Columbus, Ohio, pp. 27-32.

Some unanticipated consequences of testing. *Illinois Elementary Principal*, 5, 3-4:15.

With R. E. Spencer

Student and faculty perceptions of the meanings of college education. *Illinois School Research*, 5, 3:24-29.

BEBERMAN, MAX, Professor

Books

With W. M. Golden

Stretchers and shrinkers, book 4. Harper and Row, Evanston, Illinois, 128 pp.

Stretchers and shrinkers, book 4, teachers edition. *Ibid.*, 160 pp.

BECKER, WESLEY C., Professor

Articles

Behavior modification in the classroom. *Ontario Psychological Quarterly*, 21:221-64.

With C. H. Madsen, D. R. Thomas,

L. Koser, E. Plager

An analysis of the reinforcing function of "sit down" commands. In *Readings in educational psychology*, ed. by Parker, Allyn and Bacon, Boston, pp. 365-78.

With K. D. O'Leary, M. B. Evans,

R. A. Saudargas

A token program in a public school: a replication and systematic analysis. *Journal of Applied Behavior Analysis*, 2:3-13.

With D. R. Thomas, D. Carnine

Why children fail. *Illinois Principal*, pp. 11-13.

With R. A. Brown, Z. S. Pace

Treatment of extreme negativism and autistic behavior in a 6-year-old boy. In *Exceptional Children*, pp. 115-122.

Bulletins and Technical Reports

With D. R. Thomas, D. Carnine

Reducing behavior problems: an operant conditioning guide for teachers. ERIC, Urbana, Illinois, 37 pp.

BIJOU, SIDNEY, Professor

See Psychology.

BRAUNFELD, PETER G., Professor

Articles

Ein neuer Zugang zur Bruchrechnung vom Standpunkt der Operatoren. In *Beiträge zum Mathematikunterricht*, ed. by Heinrich Bauersfeld, Hermann Schrodol Verlag, Hannover, West Germany, pp. 209-17.

BROUDY, HARRY S., Professor

Books

With C. M. Smith

Philosophy of education: An organization of topics and selected sources. Supplement. University of Illinois Press, Urbana, 139 pp.

Articles

The arts in American education. *The Journal of Aesthetic Education*, 3, 1:5-10.

Response to presidential address, P.E.S. *Educational Theory*, 18, 4:312-15.

Science, art, and the new values. *The Science Teacher*, 36, 3:23-29.

Can we define good teaching? *The Record*, 70, 7:583-92.

The school as a social system. In *Changing supervision for changing times*, ASCD, Washington, D.C., pp. 13-30.

Quality education through aesthetic education. In *Great speakers series*, Department of Public Instruction, Harrisburg, Pennsylvania, 35-46.

A philosophy of the arts in an emerging society. *Music Educators Journal*, 56, 1:43-47; 109; 119.

BURNETT, JACQUETTA HILL, Associate Professor

Articles

Ceremony, rites, and economy in the student system of an American high school. *Human Organization*, 28, 4:1-10.

BURNETT, JOE R., Professor

Books Edited

With F. Bowers, Jo Ann Boydston, L. Hahn, Francis T. Villemain, and others.

The early works (1882-1898) of John Dewey: early essays and Leibniz's new essays, vol. 1. Southern Illinois University Press, Carbondale and Edwardsville, Illinois, 435 pp.

Reviews

Pedagogues and power, by Alan Rosenthal. *Teachers College Record*, 72, 1:171-73.

BURNETT, R. WILL, Professor

Articles

With others

Foreign and international programs. *Review of Educational Research*, 39, 4:445-58.

BURNS, KENNETH, Professor

See Speech.

CARVER, FRED D., Assistant Professor

Books Edited

With T. J. Sergiovanni

Organizations and human behavior; focus on schools. McGraw-Hill Book Co., New York, 410 pp.

Articles

Eroding power bases of the school principal. *Illinois Elementary Principal*, 5, May, 11-13.

With D. O. Crowe

An interdisciplinary framework for the study of community power. *Educational Administration Quarterly*, 5, 50-64.

With L. J. Phipps

The semantic differential and instructional evaluation. *Illinois School Research*, 5, May:42-45.

With T. J. Sergiovanni

Administrative deadwood: problem in the sixties, crisis in the seventies. *Peabody Journal of Education*, 47, July:6-10.

Some notes on the OCDQ (Organizational Climate Description Questionnaire). *Journal of Educational Administration*, 7, May: 78-81.

CHADBOURN, RUSSELL A., Assistant Professor

Articles

Multiple comparisons in research: a response to a comment. *American Educational Research Journal*, 6, 4:704-05.

Bulletins and Technical Reports

Maximization procedures for generalizability studies. Research Report #25, Laboratory of Educational Research, University of Colorado, Boulder, 197 pp.

COHEN, STEWART, Assistant Professor

Articles

The ghetto dropout: analysis and partial solution. *The Clearinghouse*, 44, 2:118.

Turning students off. *Peabody Journal of Education*, 47, 2:88.

COLWELL, RICHARD J.

Books

Teaching of instrumental music. Appleton-Century-Crofts, New York, 572 pp.

Interpretive manual for mat 1 and 2. Follett Educational Corp., Chicago, 192 pp.

DELANEY, DANIEL J., Associate Professor

Articles

Simulation techniques in counselor education: a proposal of a unique approach. *Counselor Education and Supervision*, 8, 3:315-17.

With H. A. Moses

Dimensions of pressures faced by children: a factor analytic study. *Measurement and Evaluation in Guidance*, 2, 2:101-09.

With S. Eisenberg

Using video simulation of counseling for training counselors. *Journal of Counseling Psychology*, 17, 1:15-19.

With T. J. Long, M. J. Masucci, H. A. Moses

Skill acquisition and perception change in counselor candidates during practicum. *Counselor Education Supervision*, 8, 4:284-88.

DENNY, TERRY, Associate Professor

Articles

Evaluation drudgery and the work of the curriculum committee. *Illinois Journal of Education*, January: 13-16.

Educational product evaluation. In *Proceedings of project Aristotle symposium, December, 1967*. National Security Agency, Washington, D.C., pp. 457-63.

Prose and poetry in educational evaluation theory and practice. *Educational Product Report*, 2:2-4.

With R. E. Stake

Needed techniques and instruments to utilize more fully the potential of evaluation. *National Society for the Study of Education 1969 Yearbook on Education Evaluation*, 68, 16:370-90.

ERICKSON, JOHN E., Assistant Professor

Articles

On the development of school supervisory personnel: a case in point. *The Journal of Teacher Education*, 20, 1:66-69.

EVANS, RUPERT N., Professor

Books

With G. L. Mangum, O. Pragan

Education for employment. University of Michigan, Institute of Labor and Industrial Relations, Ann Arbor, 120 pp.

Articles

Cooperative education: Advantages, disadvantages, and factors in program development. *American Vocational Journal*, 44, 5:19-22; 58.

School for schooling's sake. In *The transition from school to work*, ed. by F. Harbison, Industrial Relations Section, Princeton University, Princeton, New Jersey, pp. 189-209.

The secondary school and occupational preparation. *Bulletin of the National Association of Secondary School Principals*, 53, 2: 23-40.

The secondary school and occupational preparation. *The Educational Digest*, 34, 9:20-23.

Educational programs to cope with manpower problems. In *The bridge between man and his work*, ed. by M. E. Larson and D. L. Blake, Colorado State University, Fort Collins, Colorado, pp. 14-26.

EVERTTS, ELDONNA L., Associate Professor

Articles

Con-challenger: are there any real differences between reading instruction in the elemen-

tary school and in high school? In *Current issues in reading*, ed. by Nila Banton Smith, International Reading Association, Newark, Delaware, pp. 437-43.

Bulletins and Technical Reports

Report of institute for state supervisors of English and reading. University of Illinois, Urbana, 596 pp.

FEINBERG, WALTER, Assistant Professor

Articles

To defend the humanities. *Journal of Aesthetic Education*, 3, 2:92-101.

The conflict between intelligence and community in Dewey's educational theory. *Educational Theory*, 19, 3:236-48.

With D. Tyack

Black people, not student personnel: the "disadvantaged" in teacher education. *The Record*, 71, 2:225-35.

GOLDEN, WILLIAM M., Research Associate

Books

With M. Beberman

Stretchers and shrinkers, book 4. Harper and Row, Evanston, Illinois, 128 pp.

Stretchers and shrinkers, book 4, teachers edition. *Ibid.*, 160 pp.

GOULET, LARRY R., Associate Professor

Articles

The effect of verbalization on discrimination learning and transfer in nursery school children. *Journal of Experimental Child Psychology*, 7:479-84.

With W. Hoyer

The effects of verbalization on verbal-discrimination learning and bidirectional recall in young children and adults. *Journal of Experimental Child Psychology*, 7:434-39.

With J. Mazzei

Test anxiety and intelligence in concept formation. *Psychological Reports*, 24:842.

Verbal learning and confidence thresholds as a function of test anxiety, intelligence and stimulus similarity. *Journal of Experimental Research in Personality*, 3:247-52.

With W. R. Frohring

Rate of presentation and partial reinforcement effects in transfer of training. *Psychonomic Science*, 14:158-59.

With I. M. Ahammer

Intra-pair conceptual similarity and verbal reinforcement combinations as determinants of discrimination learning and retention in children. *Child Development*, 40:859-68.

Reviews

Verbal learning, by J. Jung. *Contemporary Psychology*, 14:508-09.

HASTINGS, J. THOMAS, Professor

Articles

The kith and kin of educational measurers. *Journal of Educational Measurement*, 6, 3:127-30.

Evaluating the curricula. *Journal of Industrial Teacher Education*, 6, 3:6-15.

The meaning and educational setting of DEEP. In *DEEP 1969*, Joint Council on Economic Education, New York, pp. 81-91.

Evaluation in the ideal school. In *The ideal school*, ed. by Gloria Kinney, Kagg Press, Wilmette, Illinois, pp. 139-57.

HENDERSON, KENNETH B., Professor

Bulletins and Technical Reports

Teaching secondary school mathematics. Na-

tional Education Association, Washington, D.C., 32 pp.

HUNT, J. McVICKER

See Psychology.

JOHNSON, WILLIAM D., Associate Professor

Articles

We teach best what we test best. *Social Studies*, 60, 5:217-24.

With C. B. Cox, R. Payette

Review of research in social studies: 1968.

Social Studies, 3, 8:965-89.

KARIER, CLARENCE J., Professor

Articles

Humanitas and the triumph of the machine. *The Journal of Aesthetic Education*, 3, 2:11-28.

Reviews

The commonwealth of learning, by Henry Steele Commager. *Choice Magazine*, 6, 3:408.

KATZ, LILIAN G., Associate Professor

Articles

Children and teachers in two types of head start classes. *Young Children*, 24, 6:343-49.

When it comes to cases. *Contemporary Psychology*, 14, 9:512-13.

Teaching styles in preschool classes. In *Bulletin of the Northern California Association for the Education of Young Children*, San Francisco, pp. 5-14.

Bulletins and Technical Reports

Staffing preschools: background information. Distributed by the ERIC Clearinghouse on Early Childhood Education, Urbana, Illinois, 7 pp.

Help for teachers in preschools: a proposal. *Ibid.*, 10 pp.

KOENKE, KARL R., Assistant Professor

Books Edited

With W. Otto

Remedial teaching: research and comment. Houghton-Mifflin Co., Boston, 382 pp.

Articles

With W. Otto

Contribution of pictures to children's comprehension of the main idea in reading. *Psychology in the Schools*, 6, 3:298-302.

LANSING, KENNETH M., Professor

Books

Art, artists, and art education. McGraw-Hill Book Co., Inc., New York, 651 pp.

LERCH, HAROLD H., Professor

Books

With C. C. Collier

Teaching mathematics in the modern elementary school. The Macmillan Co., New York, 373 pp.

LOEB, JANE W., Assistant Professor

Articles

With L. D. DeNike

Prediction of organization in free recall from reported learning strategy. *Psychological Reports*, 25:631-36.

LONG, THOMAS J.

Books

With D. J. Delaney

Readings in counseling and psychotherapy.

Selected Academic Readings, New York, 294 pp.

Articles

A philosophic superstructure for an approach to counseling. In *Readings in Counseling and Psychotherapy, Ibid.*, pp. 1a-24a.

Case of Tom. *The Lens and Speaker*, 7, 1:4-7.

With D. J. Delaney, M. J. Masucci,
H. A. Moses

Skill acquisition and perception change of counselor candidates during practicum. *Counselor Education and Supervision*, 8, 4:273-82.

MAHAFFEY, ANNA, Assistant Professor

Bulletins and Technical Reports

Changing occupational skills and requirements needed by office employees and technological developments in office equipment and procedures and implications for office education in the seventies. Department of Vocational and Technical Education, University of Illinois, Urbana, 127 pp.

MARSHALL, H. JAMES, Associate Professor
See Art.

MASUCCI, MICHAEL J., Assistant Professor

Articles

With D. Delaney, T. Long, H. Moses

Skill acquisition and perception change of counselor candidates during practicum. *Counselor Education and Supervision*, 8, 4:273-84.

Bulletins and Technical Reports

The emerging role of women in the world of work. *Chronicle Guidance Professional Service*, Moravia, New York, 4 pp.

MATHER, MARY E., Associate Professor

Books Edited

Research abstracts in home economics education 1968. American Home Economics Association, Washington, D.C., 76 pp.

Articles

The video-tape recorder, a versatile tool in home economics education. *Illinois Teacher for Contemporary Roles*, 13, 6:307-27.

McLURE, WILLIAM P., Professor

Articles

Major issues in school finance. *Educational Administration Quarterly*, Fall, pp. 2-14.

The urgent need for education finance reform in the seventies. *Phi Delta Kappan*, 51, 3: 160-62.

Implications of the current national educational finance project. *Ibid.*, pp. 162-63.

Planning adjustments in the educational system. In *Educational planning in the United States*, ed. by Elam and Swanson, F. E. Peacock Publishers, Inc., Itasca, Illinois, pp. 114-48.

The "Conant plan" for state financing of all public schools. *Integrated Education: Race and Schools*, 7, 41:5, 52-54.

Dimensions of need for early childhood and basic elementary and secondary education. In *Dimensions of educational need*, ed. by Johns, Alexander, and Rossmiller, National Educational Finance Project, Gainesville, Florida, p. 242.

MENGES, ROBERT J., Assistant Professor
See Psychology.

METCALF, LAWRENCE E., Professor

Articles

Social studies: a problem in method. *The Britannica Review of American Education*, 1:93-102.

Urban studies, reflectively speaking. *Social Education*, 33:656-61.

An interdisciplinary approach to world order. *Media and Methods*, 6:36-39.

Education and the future of war. *World Law Fund Newsletter*, 1, 2:2-3.

MILLER, VAN, Professor

Articles

Pondering the year-round school. *Illinois Education*, 31, 9:381-84.

MOORE, WALTER J., Professor

Articles

Oral language and reading: an introductory comment. In *Oral language and reading*, ed. by J. Walden, Champaign: National Council of Teachers of English, pp. 9-14.

The elementary language arts. *Illinois Journal of Education*, 57, 4:26-30.

Reading in the content field. *The English Journal*, 58, May:707-18.

MOSES, HAROLD A., Associate Professor

Articles

Counselor attributes and functions. *IGPA Quarterly*, 31:23-26.

DVR counselors' perceptions of their professional activities. *Rehabilitation Counseling Bulletin*, 12, 3:150-56.

Halfway or more? *Rehabilitation Record*, 10, 1:35-37.

With J. S. Zaccaria

Bibliotherapy in an educational context: rationale and principles. *High School Journal*, 52, 7:401-11.

With D. J. Delaney

Graduate students' perceptions of the dimensions of pressures faced by children: a factor analytic study. *Measurement and Evaluation in Guidance*, 2, 2:101-09.

With D. J. Delaney, T. J. Long, M. J. Masucci

Skill acquisition and perception change in counselor candidates during practicum. *Counselor Education and Supervision*, 8, 4:273-82.

NEWLAND, T. ERNEST, Professor

Articles

With A. P. Milliren

Statistically significant differences between subtest scaled scores for the WASSI. *Journal of School Psychology*, 7, 3:16-19.

Reviews

The cloak of competence, by Robert B. Edgerton. *Exceptional Children*, 35, 6:496-98.

O'BANION, TERRY U., Assistant Professor

Articles

Experiment in orientation of junior college students. *Journal of College Student Personnel*, 10, 1:12-15.

Rules and regulation: philosophy and practice. *Junior College Journal*, April, pp. 11-15.

Program proposal for preparing college student personnel workers. *Journal of College Student Personnel*, 10, 4:249-53.

Facilitating staff development. *New Deans of Students: Old Problems, New Answers — Proceedings of the Invitational Conference*,

University of Florida, Gainesville, pp. 18-37.

Transfer students. *Junior College Research Review*, 4, 2:10-12.

What about the junior colleges? *Compact: Education Commission of the States*, 3:5, 30-33.

PATTERSON, CECIL H., Professor

Books

Rehabilitation counseling: collected papers. Stipes Publishing Co., Champaign, Illinois, 256 pp.

Articles

Personal counseling in the school. In *Guidance in many lands: educational vocational and personal*, ed. by Pal, Central Book Depot, Allahabad, India, pp. 64-78.

Theories of counseling. *Vocational Rehabilitation of the Disabled*, pp. 191-216.

What is counseling psychology? *Journal of Counseling Psychology*, 16:23-29.

The counselor in the elementary school. *Personnel and Guidance Journal*, 47:979-86.

Pupil personnel services in the automated school. *Ibid.*, 48:101-08.

A current view of client-centered or relationship therapy. *The Counseling Psychologist*, 1, 2:2-25; 63-68.

PATTISON, SYLVIA J., Specialist

Articles

With W. R. Fielder

Social class and number concepts among young children. *California Journal of Educational Research*, 20, 2:75-84.

PHILLIPS, JOSEPHINE M., Senior Specialist

Books

With R. E. Zwoyer

Motion geometry: book 1, slides, flips, and turns. Harper and Row, Evanston, Illinois, 128 pp.

Motion geometry: book 2, congruence. *Ibid.*, 160 pp.

Motion geometry: book 3, symmetry. *Ibid.*, 160 pp.

Motion geometry: book 4, constructions, area, and similarity. *Ibid.*, 160 pp.

Articles

Stand for something, or you'll fall for anything. *The Arithmetic Teacher*, 16, 3: 203-11.

Congruent figures. *The Instructor*, 78, 5: 89-90.

Maneuvers on a calendar. *Ibid.*, 79, 1: 110-11.

Math and science together. *Ibid.*, 8:78-80.

PINGRY, ROBERT E., Professor

Books

With K. Henderson

Using mathematics (3rd ed.). Webster Division, McGraw-Hill Book Co., New York, 448 pp.

POWELL, WILLIAM R., Professor

Books Edited

With A. Beery, T. Barrett

Elementary reading instruction: selected materials. Allyn and Bacon, Boston, 591 pp.

Articles

Reappraising the criteria for interpreting informal inventories. In *Reading diagnosis and evaluation*, ed. by Dorothy L. DeBoer,

International Reading Association, Newark, Delaware, pp. 100-09.

Reaction to reading diagnosis and remediation: a state-of-the-art monograph. *Reading Research Quarterly*, 4:560-65.

Reviews

Gates-MacGinitie reading tests. *Journal of Educational Measurement*, 6:114-16.

Reading and thinking, by Maurice J. Eash. *Educational Forum*, 34:146.

Bulletins and Technical Reports

Equal educational opportunity. *A New Look at Title I*. Office of the Superintendent of Public Instruction, Springfield, Illinois, pp. 21-26.

Operation "close-gap" continued. *Ibid.*, pp. 33-37.

ROSEN, SIDNEY, Professor

Books

Wizard of the dome; R. Buckminster Fuller, designer for the future. Little, Brown, Boston. 189 pp.

Reviews

The double helix, by James D. Watson. *Journal of Research in Science Teaching*, 6, 2:200.

SANDERS, WALTER J., Senior Specialist

Articles

Equivalence and equality. *The Arithmetic Teacher*, 16, 4:317-22.

SERGIOVANNI, THOMAS J., Associate Professor

Books Edited

With D. Carver

Organizations and human behavior: focus on schools. McGraw-Hill, New York, 410 pp.

Articles

With D. Carver

Some notes on the OCDQ. *Journal of Educational Administration*, 7, 1:78-81.

Administrative deadwood: problem in the sixties, crisis in the seventies. *Peabody Journal of Education*, 47, 1:6-11.

With R. Metzcos, L. Burden

Toward a particularistic approach to leadership style: some findings. *American Educational Research Journal*, 6, 1:62-80.

Reviews

Six urban school districts, a comparative study of institutional response by Gittell and Hollander. *The Educational Forum*, 33, 3:386-87.

SHORES, J. HARLAN, Professor

Articles

With J. E. Snoddy

Organizing and teaching the research-study skills in the elementary school. In *Reading and realism*, ed. by Figurel, International Reading Association, Newark, Delaware, pp. 681-88.

SHORESMAN, PETER B., Associate Professor

Books

With J. S. Marshall, Illa Pondendorf, C. Swartz

Sense and tell: teacher's guidebook (rev. ed.). Scott, Foresman and Co., Glenview, Illinois, 160 pp.

Living things: teacher's guidebook. *Ibid.*, 116 pp.

SIMPSON, RAY H., Professor

Articles

With J. T. Warren

Learner independence in two- and four-year colleges. *Illinois School Research*, 6, 1: 36-42.

SJOGREN, DOUGLAS D., Professor

With D. G. Gutter

Current and future demands on vocational education. *High School Journal*, 52, 5: 219-28.

Bulletins and Technical Reports

With G. England, R. Meltzer

The development of an instrument for assessing the personal values of educational administrators. Colorado State University Publication, Ft. Collins, 72 pp.

SMITH, B. OTHANEL, Professor

Books

With S. Cohen, A. Pearl

Teachers for the real world. American Association of Colleges for Teacher Education, Washington, D.C., 187 pp.

SMITH, RALPH A., Associate Professor

Articles

Aesthetic inquiry and humanities education. *Journal of Aesthetic Education*, 3, 2:5-10.

Film study as aesthetic education. *Ibid.*, 3: 5-11.

Herbert Read: the humanist in a world of politics. *Ibid.*, 4:5-9.

Human values, modern organizations, and education. In *Organizations and human behavior: focus on schools*, ed. by Carver and Sergioanni, McGraw Hill Book Co., New York, pp. 404-10.

Reviews

The relations of philosophy of education to aesthetic education, Broudy, et al. *Journal of Aesthetic Education*, 3, 2:161-64.

SPENCER, RICHARD E., Professor

See Instructional Resources.

SPITZE, HAZEL T., Associate Professor

Books

With Patricia H. Rotz

Where does the money go? Steck-Vaughn Co., Austin, Texas, 100 pp.

With Reba J. Davis

Letters to a young homemaker, published serially in *News for You*, weekly newspaper of Laubach Literacy Foundation, Syracuse, New York.

Articles

Utilizing home economists in homemaking members on research teams. *Journal of Home Economics*, 61, 5:366-68.

Teaching nutrition to the neediest. *Journal of Cooperative Extension*, 7, 2:95-103.

Teaching strategies to promote thinking. *Illinois Teacher*, 12, 3:132-38.

Consumer education in the secondary curriculum. *Ibid.*, 13, 2:55-59.

SPODEK, BERNARD, Professor

Articles

Early learning for what? *Phi Delta Kappan*, 50, 7:394-96.

So it doesn't whistle. *Illinois School Journal*, 49, 1:42-48.

Constructing a model for a teacher education

program in early childhood education. *Contemporary Education*, 40, 3:145-49.

SREDL, HENRY J., Associate Professor

Books

With D. G. Lux, W. E. Ray, and others

Industrial arts curriculum project, the world of construction; industrial technology I (first semester). The Ohio State University Research Foundation, Columbus, 281 pp.

Ibid. (second semester), 326 pp.

Industrial arts curriculum project, the world of manufacturing; industrial technology II (first semester). *Ibid.*, 283 pp.

Ibid. (second semester), 325 pp.

STAKE, ROBERT E., Professor

Articles

Language, rationality, and assessment. In *Improving educational assessment and an inventory of measures of affective behavior*, Association for Supervision and Curriculum Development, National Education Association, Washington, D.C., pp. 14-40.

The humanities and the burden of responsibility. *Journal of Aesthetic Education*, 3: 84-89.

Evaluation design, instrumentation, data collection, and analysis of data. In *Educational evaluation*, ed. by Joseph L. Davis, Ohio Department of Education, Columbus, pp. 58-72.

STANLEY, WILLIAM O., Professor

Articles

With R. H. Holtzman

Perspectives and unity: Karl Mannheim. *Educational Theory*, 19, 3:271-87.

SZABO, STEVEN, Research Associate

Reviews

Modern algebra and trigonometry, by Robinson. *The Mathematics Teacher*, October, pp. 511-12.

How to teach mathematics in secondary schools, by Fremont. *Ibid.*, December, p. 683.

TATSUOKA, MAURICE M., Professor

Articles

Experimental methods. In *Encyclopedia of educational research (4th ed.)*, ed. by R. L. Ebel, The Macmillan Co., New York, pp. 474-81.

Multivariate analysis. *Review of Educational Research*, 39, 5:739-43.

TESKA, JAMES A., Research Assistant

Professor

Articles

The effects of five preschool interventions: evaluations over two years. In *M. B. Karnes, research and development program on preschool disadvantaged children, I*, Bureau of Research, Office of Education, U.S. Department of Health, Education and Welfare, Project No. 5-1181, pp. 46-146.

A follow-up of three of the five interventions: evaluations over three years. *Ibid.*, pp. 147-86.

Earlier intervention: effects of the ameliorative program initiated with three-year-old children and maintained for two years. *Ibid.*, pp. 187-96.

The effects of short-term instruction at home by mothers of children not enrolled in a preschool. *Ibid.*, pp. 197-204.

The impact of at-home instruction by mothers on performance in the ameliorative pre-school. *Ibid.*, pp. 205-12.

Implementing the ameliorative program with paraprofessional staff. *Ibid.*, pp. 213-24.

The effects of the ameliorative program with a class of low IQ children. *Ibid.*, pp. 225-29.

THOMAS, HOLLIE B., Assistant Professor

Articles

Trends and problems in agricultural education. *Illinois Teacher for Contemporary Roles*, 13:139-47.

TINKHAM, ROBERT A., Associate Professor

Articles

Improve learning through displays. *Illinois Teacher for Contemporary Roles*, 12, 5: 257-63.

TOMLINSON, ROBERT M., Associate Professor

Articles

Personal characteristics and employment profile of licensed practical nurses. *Bedside Nurse*, 2, 2:30-33.

Nursing employment and vacancies at 101 locations. *Ibid.*, 4:29-31.

Bulletins and Technical Reports

With Others

Occupational patterns and functions of employed LPNs, Final Report, Part I, USOE Project No. 5-0126, University of Illinois, College of Education, Urbana-Champaign, 274 pp.

TRAVERS, KENNETH J., Associate Professor

Articles

Computation: low achievers' stumbling block or stepping stone? *The Arithmetic Teacher*, 16, 7:523-28.

Reviews

The failure strategies of third-grade arithmetic pupils, by Gerhard H. Roberts. *Investigations in Mathematics Education*, 1: 18-20.

Preliminary report on an experiment with junior high school very low achievers in mathematics, by William S. DeVenney. *Ibid.*, 2:47-50.

VIOLAS, PAUL C., Assistant Professor

Reviews

The progressive educator and the depression, by C. A. Bowers. *The Educational Forum*, 34, 1:150-51.

WARDROP, JAMES L., Assistant Professor

Articles

Generalizability of program evaluation: the danger of limits. *Educational Product Report*, 2, 5:41-42.

With R. Olton, W. Goodwin, M. Covington, H. Klausmeier, and others

The development of productive thinking skills in fifth-grade children. *Journal of Experimental Education*, 37, 4:67-77.

WELLNER, WILLIAM, Assistant Professor

Articles

Faculty-student relations in the public junior college. *The Journal of College Student Personnel*, 10:152-55.

WEST, CHARLES K., Assistant Professor

Books Edited

With F. M. Raubinger, H. G. Rowe, D. L. Piper

The development of secondary education. The Macmillan Co., New York, 371 pp.

Articles

With J. F. Lee, T. H. Anderson

The influence of test anxiety on the selection of relevant from irrelevant information. *Journal of Educational Research*, 63, 2: 51-52.

Reviews

Creativity and learning, by J. Kagan. *The Journal of Aesthetic Education*, 3, 4:175-76.

The senses considered as perceptual systems, by J. J. Gibson. *Ibid.*, 1:142-43.

WILLIAMS, DAVID L., Assistant Professor

Articles

Research related to the disadvantaged and research strategies for the seventies. In *Proceedings of the twenty-third annual central regional research conference in agricultural education*, Division of Agricultural Education, University of Illinois, Urbana, 22 pp.

Bulletins and Technical Reports

With R. L. Courson

A teacher's guide on modern soybean production. Division of Agricultural Education, University of Illinois, Urbana, 22 pp.

ZACCARIA, JOSEPH S., Associate Professor

Books

Approaches to guidance in contemporary education. International Textbook Co., Scranton, Pennsylvania, 277 pp.

With H. A. Moses

Facilitating human development through reading. Stipes Publishing Co., Champaign, Illinois, 270 pp.

Articles

Existentialism and developmental guidance: a synthesis. *Personnel and Guidance Journal*, 47:440-45.

With H. A. Moses

The use of bibliotherapy in an educational context: rationale and principles. *The High School Journal*, 52:401-11.

ZIMMERMAN, MARILYN P., Visiting Associate Professor

See Music.

ZWOYER, RUSSELL E., Senior Specialist

Books

With Josephine M. Phillips

Motion geometry: book 1, slides, flips, and turns. Harper and Row, Evanston, Illinois, 128 pp.

Motion geometry: book 2, congruence. *Ibid.*, 160 pp.

Motion geometry: book 3, symmetry. *Ibid.*, 160 pp.

Motion geometry: book 4, constructions, area, and similarity. *Ibid.*, 160 pp.

DOCTORAL DISSERTATIONS

Ashley, Irvin E., Jr. (L. J. Phipps, Adviser). Analysis of opportunities for paraplegics in certain ornamental horticulture occupations.

Becker, Derold W. (T. S. Baldwin, Adviser). Auditory diagnostic performance as a criterion measure for machinists.

- Bobbitt, John F. (L. J. Phipps, Adviser), A comparative study of two concurrent work-education models in agriculture.
- Bobbitt, Norma S. (E. Simpson, Adviser), A comparative study of undergraduates, home-making teachers and occupational teachers to ascertain attitudes, knowledges and plans in relation to an employment emphasis in high school home economics.
- Boldt, Walter B. (J. M. Atkin, Adviser), Application of Thomas S. Kuhn's view of science to science teaching: an exploratory study.
- Boswell, Jacquelyn (B. Bergethon, Adviser), An application of Bruner's Theory of Mental Growth to the teaching of musical concepts in beginning instrumental music.
- Bowers, Norman E. (R. A. Henderson, Adviser), The development and application of a set of criteria for use in the establishment of a comprehensive regional special education program.
- Brown, Oliver R., Jr. (M. Tatsuoka, Adviser), An examination of some parameters that may differentiate learning styles of disadvantaged, average, and privileged junior high school students.
- Cantrall, William R. (J. N. Hook, Adviser), On the nature of the reflexive in English.
- Connelly, Joseph T., Jr. (W. O. Stanley, Adviser), The role of organized interest groups in Illinois upon the policies of the State government toward the public schools.
- Cooney, Thomas J. (K. B. Henderson, Adviser), An analysis of teachers' verbal behavior using the theory of relations.
- Dahl, Dennis A. (F. M. Raubinger, Adviser), A follow-up study of the 1940 class of Campaign High School.
- Daniel, Jessica H. (R. H. Simpson, Adviser), The black graduate student's employment dilemma: predominantly black versus predominantly white work settings.
- Deem, Thomas E., Jr. (M. R. Sumption, Adviser), Practices and opinions related to follow-up studies by public junior colleges (an empirical study).
- Eisenberg, Sheldon (M. M. Ohlsen, Adviser), The development and application of a simulated environment for training counselors.
- Erlanson, David A. (L. E. McCleary, Adviser), An examination of decision rules within organizational units as responses to governmental stimuli.
- Foster, Stephen F. (R. H. Simpson, Adviser), Attitudes, self acceptance, self descriptions and student teaching success.
- Franco, Erwin J. (W. J. Moore, Adviser), Improving reading ability and academic achievement through use of subject matter and existing oral language.
- Franklin, Gregory C. (M. M. Ohlsen, Adviser), Single male preferences in mate selection: intelligence and education.
- Gill, Donald G. (W. P. McLure, Adviser), The relationship of innovation and complexity in public school systems.
- Goins, Thomas L. (L. E. McCleary, Adviser), Effects of program and related factors on the concept of efficiency of physical structures in higher education.
- Gold, Marc W. (R. H. Henderson, Adviser), The acquisition of a complex assembly task by retarded adolescents.
- Gundy, Gerdon, Jr. (F. M. Raubinger, Adviser), A survey of learning resources centers in selected elementary schools.
- Harvick, Donald L. (V. Miller, Adviser), Differences in perception of the task of the schools between school personnel from national elementary and secondary education act title I eligible and non-eligible attendance unit neighborhoods.
- Hasbargen, Arthur, Jr. (R. Henderson, Adviser), Demographic characteristics of institutionalized emotionally disturbed children.
- Heiny, Robert W. (B. Farber, Adviser), Student role performances: a case study in the professionalization of special educators.
- Hofer, Jarrel (T. S. Baldwin, Adviser), An iconic comparison of photographs and the live television screen in visual diagnostic ability.
- Horn, Charles J., Jr. (R. A. Henderson, Adviser), Federal aid for preparation for personnel to teach the handicapped.
- Imig, David G. (W. O. Stanley, Adviser), An analysis of social factors affecting education in Sierra Leone, 1951-1966.
- James, Gary A. (J. S. Zaccaria, Adviser), The assessment of attitudes of Illinois public high school counselors toward the Junior College.
- Johnson, James R. (C. Leonhard, Adviser), The change in status of public school string programs in Minnesota between the school years 1959-60 and 1967-68.
- Kansky, Robert J. (M. Beberman, Adviser), An analysis of models used in Australia, Canada, Europe, and the United States to provide an understanding of addition and multiplication over the natural numbers.
- Kiley, Daniel E. (C. H. Patterson, Adviser), The effect of role conflict on the impression management of chronic schizophrenics.
- Kirby, Jack R. (W. O. Stanley, Adviser), Everts Boutell Greene: the career of a professional historian.
- Kirk, Girvin E. (R. A. Henderson, Adviser), The performance of advantaged and disadvantaged preschool children on tests of picture-phonemic discrimination and picture-word recognition skills.
- Kooyumjian, Mary L. V. (J. J. Gallagher, Adviser), Cognitive achievement through independent study in summer programs in continuing education.
- Lewis, Marjorie L. (C. H. Patterson, Adviser), Self-concepts and level of occupational aspiration.
- Lindsey, Alfred J. (J. L. Walker, Adviser), A program of professional readings for secondary English teachers who teach in Illinois schools with fewer than 350 students.
- Lubera, Eugene T. (F. P. Barnes, Adviser), The effects of the race and the sex of test interviewers on the responses of intermediate grade American children on the measurement of interest in school work.
- Lutz, Ronald J. (T. S. Baldwin, Adviser), The identification of factors relative to the dimensionality of kinesthesia.
- Mader, Charles E. (L. E. McCleary, Adviser), Analysis of the relationship between the involvement of the supervisor in the structure of school organization and measures of his personality characteristics.
- Maglione, Frank D., Jr. (C. H. Patterson, Adviser), An experimental study of the use of tactual maps as orientation and mobility aids for adult blind subjects.
- Mannebach, Alfred J. (L. J. Phipps, Adviser), The effectiveness of structured occupational experience for instructors of agricultural occupations.

- Mathie, Gordon W. (C. Leonhard, Adviser), A theoretical basis for college trumpet study.
- McBeath, Arthur G. (F. M. Raubinger, Adviser), A survey of the perceptions of the levels of decision-making in educational program in the elementary and secondary schools of Saskatchewan.
- McMurray, Gudelia A. (W. O. Stanley, Adviser), The pragmatic theory of meaning as a potential resource for educational theory.
- Monroe, Donald S. (V. Miller, Adviser), An investigation of the effects on job satisfaction of the interaction of teachers' orientation to locus of control and the degree of bureaucratization of selected secondary schools.
- Mueller, Daniel J. (R. H. Simpson, Adviser), Differences in social responsibility among various groups of college students.
- Oetting, George D. (L. E. McCleary, Adviser), The professor of aerospace studies—a descriptive study of a military educational administrator.
- Pierce, Milo C. (W. P. McLure, Adviser), Administrators' preferences for faculty and student participation in university policy-making.
- Precians, Robert P. (B. O. Smith, Adviser), The adequacy of teaching observation systems: an assessment of the venture system.
- Randolph, Brenda S. (B. Bergethon, Adviser), Analysis of empirical research related to the elementary general music program.
- Roderick, Marianne C. (R. C. Anderson, Adviser), The effects of several ways of writing paragraphs on the learning of principles.
- Rotigel, David E. (J. R. Burnett, Adviser), Lester Frank Ward on man, society and education.
- Rumery, Robert E. (J. T. Hastings, Adviser), Cognitive systems as mediators of ratings of teaching performance.
- Saettler, Herman L. (R. A. Henderson, Adviser), Students in training programs in the education of the handicapped.
- Schmitt, Philip J. (S. P. Quigley, Adviser), Deaf children's comprehension and production of sentence transformations and verb tenses.
- Schwager, Melvin S. (R. S. Jones, Adviser), The experimental acquisition of the concept of conservation of number in young children.
- Shinn, Byron M., Jr. (L. E. McCleary, Adviser), A study of superintendent, principal and curriculum director perceptions of role in the educational program.
- Shive, Rossie J. (L. E. Metcalf, Adviser), Three curriculum projects and value education.
- Shugert, James M. (C. Leonhard, Adviser), An experimental investigation of heterogeneous class and private methods of instruction with beginning instrumental music students.
- Sibbing, Robert V. (C. Leonhard, Adviser), An analytical study of the published sonatas for saxophone by American composers.
- Sister Kortas, Maureen (W. C. Becker, Adviser), The effects on programmed reading of a token contingency system with a class of educable retarded boys.
- Sparks, Paul G. (L. E. McCleary, Adviser), An investigation of the role behavior of the secondary school principal.
- Starratt, Robert J. (F. M. Raubinger, Adviser), The individual and the educated imagination: an essay in curriculum theory.
- Steele, Joe M. (R. A. Henderson, Adviser), Things as they are: an evaluation procedure to assess intent and practice in instruction.
- Szabo, Steven (M. Beberman, Adviser), Vector trigonometry for secondary schools.
- Tawney, James W. (R. A. Henderson, Adviser), Training letter discrimination in four-year-old children.
- Teska, James A. (W. P. Hurder, Adviser), Success and failure in five different programs of preschool intervention with culturally disadvantaged children.
- Timko, Henry G. (C. Bereiter, Adviser), Prerequisite skills in early reading.
- Tremko, Michael S. (L. E. McCleary, Adviser), A study of school climate, socio-economic setting and in-service programs.
- Weese, Keith C. (V. Miller, Adviser), An investigation of the impact of two different types of in-service professional reading programs on the perceptions of teachers in disadvantaged schools.
- Wickramasekera, Ian E. (C. H. Patterson, Adviser), The effects of sensory restriction on susceptibility to hypnosis.
- Williams, Franklin E. (C. Leonhard, Adviser), Music instruction in the colleges affiliated with the American Lutheran Church: an appraisal and proposed plan for improvement.
- Williams, Robert E. (C. Leonhard, Adviser), A learning sequence for beginners on the clarinet based on an investigation of musical and manipulative difficulties found in junior high band music.
- Wiseman, Emory E. (T. S. Baldwin, Adviser), An experimental study to assess vibrotactile perception as a dimension of machine diagnosis in industrial education.
- Wolfe, Richard E. (K. B. Henderson, Adviser), Strategies of justification used in the classroom by teachers of secondary school mathematics.
- Wright, Loyd S. (R. A. Henderson, Adviser), Perceptual and cognitive characteristics and their relationship to social factors and academic achievement in third grade conduct problem boys.

ELECTRICAL ENGINEERING

ADES, HARLOW W., Professor

Articles

With L. B. Poche, Jr., C. W. Stockwell

Cochlear hair cell damage in guinea pigs after exposure to impulse noise. *Journal of the Acoustical Society of America*, 46, 4 (Part 2):947-51.

With C. W. Stockwell, H. Engström

Patterns of hair cell damage after intense auditory stimulation. *Annals of Otolaryngology and Laryngology*, 78, 6:1144-69.

AKITT, DONALD P., Associate Professor

Articles

With W. A. Jeffers

Correlation effects in H₂O and D₂O laser transitions. *Journal of Applied Physics*, 40, 1:429-30.

With C. F. Wittig

Laser emission in ammonia. *Journal of Applied Physics*, 40, 2:902-03.

With S. J. Martinich, C. J. Johnson

Measurement of far-infrared laser power. *The Review of Scientific Instruments*, 40, 2:359-60.

ANNER, GEORGE E., Professor

Articles

Avalanche luminescence in CdS-Te heterojunctions. *Proceedings of the IEEE*, 57, 6:1219-20.

An infrared sensitive Ge-Te heterojunction. *Ibid.*, 12:2150-51.

ASHBY, WILLIAM ROSS, Professor

Articles

Measuring memory. In *Systems organization of physiological functions*, ed. by Patin, State Publishing House, Moscow, pp. 239-43. In Russian.

Two tables of identities governing information flows within large systems. *Communications of American Society for Cybernetics*, 1:3-8.

BARDEEN, JOHN, Professor

See Physics.

BEAUCHAMP, JAMES W., Assistant Professor

Books Edited

With H. F. von Foerster

Music by computers. John Wiley and Sons, New York, 139 pp.

Articles

A computer system for time-variant harmonic analysis and synthesis of musical tones. In *Music by Computers*, ed. by von Foerster, Beauchamp, John Wiley and Sons, New York, pp. 19-62.

BITZER, DONALD L., Professor

See Coordinated Science Laboratory.

BOWHILL, SIDNEY A., Professor

Articles

Ionosphere. In *Encyclopedia Americana*, Americana Corporation, New York, p. 350.

Interactions between the stratosphere and the ionosphere. In *Annals of the IQSY*, 5, M.I.T. Press, Cambridge, Massachusetts, pp. 83-95.

Ion chemistry of the D and E regions—a survey for Working Group II of the Inter-Union Commission on Solar Terrestrial Physics. *Journal of Atmospheric and Terrestrial Physics*, 31:731-41.

With P. E. Monro

Minor atmospheric constituents and ion chemistry of the E region. *Journal of Atmospheric and Terrestrial Physics*, 31: 103-17.

With K. D. Shere

Effects of background winds on atmospheric gravity waves. *Radio Science*, 4, 6:535-37.

With R. J. Cicerone

Theory of ion collection by a stationary electrostatic probe. *Ibid.*, pp. 561-71.

BROWN, RICHARD M., Professor

See Physics.

CHERRINGTON, BLAKE E., Associate Professor

Articles

With C. S. Liu, J. T. Verdeyen

Dispersion-corrected three-wavelength laser heterodyne measurement of plasma densities. *Journal of Applied Physics*, 40, 1: 201-07.

Dispersion effects in a high-gain 3.39 μ He-Ne laser. *Journal of Applied Physics*, 40, 9: 3556-63.

With M. E. Fein, J. T. Verdeyen

A thermally pumped CO₂ laser. *Applied Physics Letters*, 14, 11:337-40.

With R. T. Ku, J. T. Verdeyen

Frequency shift at 3.39 μ due to competition by 6328Å laser radiation. *Ibid.*, pp. 3860-62.

With P. A. Miller, J. T. Verdeyen

Measurement of dispersion at 6328Å and 6401Å due to the neon I s₂ metastable atoms in a He-Ne discharge. *IEEE Journal of Quantum Electronics*, QE-5, 9:473-74.

CHIEN, ROBERT T., Professor

See Coordinated Science Laboratory.

COLEMAN, PAUL D., Professor

Articles

Closing the far-infrared gap. *Laser Focus*, 5:37-40.

With J. C. Hassler

Far infrared lasing in H₂S, OCS, and SO₂. *Applied Physics Letters*, 14, 4:135.

With P. Alonas, G. Sherman, C. Wittig

Dielectric properties of CuCl at 300 K in the 3-30 μ region. *Applied Optics*, 8, 12:2557.

COOPER, DUANE H., Associate Professor

See Coordinated Science Laboratory.

CROWLEY, JOSEPH M., Assistant Professor

Articles

Control of an amplifying wave on an infinite continuum. *IEEE Transactions on Automatic Control*, AC-14, 5:536-39.

CRUZ, JOSE B., Professor

Books

With W. R. Perkins

Engineering of dynamic systems. John Wiley and Sons, Inc., New York, 568 pp.

Articles

With R. A. Werner

Feedback control which preserves optimality for systems with unknown parameters. *IEEE Transactions on Automatic Control*, AC-13, 6:621-29.

With P. V. Kokotović

An approximation theorem for linear optimal regulators. *Journal of Mathematical Analysis and Applications*, 27, 2:249-52.

With J. E. Heller, J. Medanić

An algorithm for minimax design. In *Proceedings of first international conference on the theory and applications of differential games*, Amherst, Massachusetts, II-25 to II-30.

With A. H. Haddad, P. V. Kokotović

Design of control systems with uncertain parameters. In *Proceedings of third annual Princeton conference on information sciences and systems*, Princeton, New Jersey, pp. 216-22.

With P. V. Kokotović, W. R. Perkins, G. D'Ans

A decoupling method for approximate solution of large scale Riccati equations. In *Proceedings of second Hawaii international conference on system sciences*, University of Hawaii, pp. 791-94.

e-coupling method for near optimum design of large scale systems. *Proceedings of the Institute of Electrical Engineers*, 116, 5: 889-92.

DESCHAMPS, GEORGES A., Professor

Articles

With J. D. Dyson, P. E. Mast

Two-port isotropic radiator for unpolarized waves. *IEEE Transactions on Antennas and Propagation*, AP-17, 6:809-10.

DUNN, FLOYD, Professor

Articles

With S. A. Hawley

Ultrasonic absorption in aqueous solutions of dextran. *Journal of Chemical Physics*, 50, 8:3523-26.

With L. W. Kessler

Ultrasonic investigation of the conformational changes of bovine serum albumin in aqueous solution. *Journal of Physical Chemistry*, 73, 12:4256-63.

With P. D. Edmonds, W. J. Fry

Absorption and dispersion of ultrasound in biological media. In *Biological engineering*, ed. by Schwan, McGraw-Hill, New York, pp. 205-332.

DYSON, JOHN D., Professor

Articles

Determination of the phase center and phase patterns of antennas. In *Radio antennas for aircraft and aerospace vehicles*, ed. by W. T. Blackband, Technivision Services, Maidenhead, England, pp. 97-118. 1968.

With G. A. Deschamps, P. E. Mast

A two-port isotropic radiator for unpolarized waves. *IEEE Transactions on Antennas and Propagation*, AP-17, 6:809-10.

ERNST, EDWARD W., Professor

Articles

With M. M. Dehn

Pass-fail: a degrading experience? *IEEE Student Journal*, 7, 4:36-37.

FEIN, MICHAEL E., Research Associate

Articles

With J. T. Verdeyen, B. E. Cherrington

A thermally pumped CO₂ laser. *Applied Physics Letters*, 14, 11:337-40.

FORBES, LEONARD, Research Associate

Articles

With C. T. Sah

Application of the distributed equilibrium equivalent circuit model to semiconductor junctions. *IEEE Transactions on Electron Devices*, ED-16, 12:1036-41.

With C. T. Sah, L. L. Rosier, A. F. Tash, Jr., A. B. Tole

Thermal emission rates of carriers at gold centers in silicon. *Applied Physics Letters*, 15, 5:145-48.

With C. T. Sah, L. L. Rosier

Low-temperature high-frequency capacitance measurements of deep- and shallow-level impurity center concentrations. *Ibid.*, 6: 161-64.

Direct observation of the multiplicity of impurity charge states in semi-conductors from low-temperature high-frequency photo-capacitance. *Ibid.*, 10:316-18.

GADDY, OSCAR L., Professor

Articles

With D. L. Keune, J. A. Rossi, H. Merkelo, N. Holonyak, Jr.

Time behavior of exciton formation and laser

emission in Cd(SeS) platelets. *Applied Physics Letters*, 14, 3:99-101.

With G. W. Day, K. C. Jungling

Investigation of a Q-switched pulsed-discharge CO₂ laser. *IEEE Journal of Quantum Electronics*, QE-5, 8:423-24.

Wavelength selection in a Q-switched CO₂ laser using selective absorption in gases. *Proceedings of the IEEE*, 57, 11:2060-61.

With D. J. Leverenz

Measurement of the duration of the sampling function in the dynamic crossed-field photo-multiplier. *Ibid.*, 12:2153-54.

GELLER, MARVIN A., Assistant Professor

Articles

A generalization of "Tidal theory with Newtonian cooling." *Journal of the Atmospheric Sciences*, 25:932-33.

GOLDSTEIN, LADISLAS, Professor

Articles

With J. P. Kaplafka, H. Merkelo

Quenching of helium afterglow by infrared photons. *Applied Physics Letters*, 15, 4:113.

GUNTHER, GOTTHARD, Professor

Articles

Kritische bemerkungen zur gegenwärtigen Wissenschaftstheorie. *Soziale Welt*, 19, 3/4: 328-41.

Das Rätsel des Seins. *Civitas*, 24, 6/7:521-30.

Bewusstsein als Informationsraffer. *Grundlagenstudien aus Kybernetik*, 10:1-6.

Strukturelle Minimalbedingungen für eine Theorie des objektiven Geistes. In *Proceedings of the international Hegel congress*, Lille, France.

Many-valued designation and a hierarchy of first order ontologies. *Akten des XIV Internationalen Kongresses für Philosophie*, 3: 37-44.

HADDAD, ABRAHAM H., Assistant Professor

See Coordinated Science Laboratory.

HANDLER, PAUL, Professor

See Physics.

HANG, DANIEL F., Professor

See Nuclear Engineering.

HASSLER, JOHN C., Research Associate

Articles

With P. D. Coleman

Far infrared lasing in H₂S, OCS, and SO₂. *Applied Physics Letters*, 14:130.

HENDRICKS, CHARLES D., Professor

Books Edited

Ionospheric radio waves, by Kenneth Davies. Blaisdell Publishing Co., Waltham, Massachusetts, 460 pp.

Introductory systems and design, by W. H. Huggins and Doris R. Entwisle. *Ibid.*, 683 pp.

Articles

With A. Y. Cho

Mean adsorption lifetimes and activation energies of silver and gold on clean, oxygenated, and carburized tungsten. *Journal of Applied Physics*, 40, 3339-45.

With S. B. Sample

Potential energy of a deformed conducting sphere in an electric field. *International Journal of Engineering Science*, 7:427-35.

With D. S. Swatik

Production of intense ion beams by EHD techniques. In *Proceedings of the IUTAM international symposium on electrohydrodynamics*, Massachusetts Institute of Technology, Cambridge, Massachusetts, p. 189.

With J. M. Crowley

Electrohydrodynamic processes in electric field spraying of liquids. *Ibid.*, p. 177.

Reviews

Electromechanical dynamics, 3 vols., by H. H. Woodson and J. R. Melcher. *IEEE Spectrum*, 6:111-12.

Bulletins and Technical Reports

With T. Erin

Secondary electron emission from liquid insulators. University of Illinois, Urbana, 69 pp.

HOLONYAK, NICK, JR., Professor

Articles

With A. S. Epstein

Solid state light. *Science Journal*, 5:69. Also, *Lichtemission von Festkörpern. Internationale Elektronische Rundschau*, 23:259.

With B. G. Streetman, H. V. Krone, W. Dale Compton

Current oscillations in Si p-n diodes after irradiation with 1-MeV electrons. *Applied Physics Letters*, 14:63.

With D. L. Keune, J. A. Rossi, O. L. Gaddy, H. Merkelo

Time behavior of exciton formation and laser emission in Cd(SeS) platelets. *Ibid.*, p. 99.

With R. D. Burnham, P. D. Dapkus, J. A. Rossi

Laser transition to band edge or to impurity states in GaAs:Ge. *Ibid.*, p. 190.

With D. L. Keune, J. A. Rossi, P. D. Dapkus

Time behavior of laser modes in GaAs platelet lasers. *Journal of Applied Physics*, 40:1934.

With J. A. Rossi, P. D. Dapkus, R. D. Burnham, F. V. Williams

Laser transition in p-type GaAs:Si. *Ibid.*, p. 3289.

With P. D. Dapkus, J. A. Rossi, F. V. Williams, D. A. High

The laser transition and wavelength limits of GaAs. *Ibid.*, p. 3300.

With J. A. Rossi, P. D. Dapkus, J. B. McNeely, F. V. Williams

The laser recombination transition in p-type GaAs. *Applied Physics Letters*, 15:109.

With B. G. Streetman

Current oscillations in deep-level doped semiconductors. *IBM Journal of Research and Development*, 13, 5:529-32.

With D. L. Keune, J. A. Rossi, K. L. Lawley, R. E. Walline, F. V. Williams

Laser operation and spectroscopy of epitaxial GaAs Gunn oscillator wafers. *Journal of Applied Physics*, 40:4998.

With A. T. Maher, B. G. Streetman

Infrared detection properties of Zn-doped Si p-n diodes. *IEEE Transactions on Electron Devices*, ED-16, 11:963-64.

ITOH, TATSUO, Research Associate

Articles

With E. Yamashita, R. Mittra

Application of the sampling theorem to a multislit coupling structure of a confocal-mirror resonator. *Electronics Letters*, 5, 4:67-68.

With R. Mittra

An analytical study of the echelette grating with application to open resonators. *IEEE Transactions on Microwave Theory and Techniques*, MIT-17, 6:319-27.

A method for solving boundary value problems associated with a class of doubly-modified Wiener-Hopf structures. *Proceedings of the IEEE*, 57, 12:2170-71.

KAPLAFKA, JAMES P., Research Associate

Articles

Quenching of helium afterglow by infrared photons. *Applied Physics Letters*, 15, 4:113.

KOKOTOVIČ, PETAR V., Associate Professor
See Coordinated Science Laboratory.

KUO, BENJAMIN C., Professor

Articles

With R. Yackel, G. Singh

Time-optimal control of a stepping motor. *IEEE Conference Record of Industry and General Application*, pp. 103-09.

With P. D. Shea

Linear difference games with constrained controls. *Proceedings of Houston Conference on Systems, Circuits, and Computers*, pp. 161-71.

Linear difference games with incomplete information. *Proceedings of the First International Conference on the Theory and Application of Differential Games*, 6:25-30.

With G. Singh, R. Yackel

Modeling and simulation of a stepping motor. *Ibid.*, pp. 540-52.

With D. Tabak

Application of mathematical programming in the design of optimal control systems. *International Journal of Control*, 10, 5:545-52.

LEE, SHUNG-WU, Assistant Professor

Articles

Cylindrical antenna in uniaxial resonant plasmas. *Radio Science*, 4, 2:179-89.

On edge diffraction rays of an open-ended waveguide. *Proceedings of the IEEE*, 57, 8:1445-46.

With R. Mittra

Admittance of a solid cylindrical antenna. *Canadian Journal of Physics*, 47, 18:1959-70.

Some aspects of numerical solution of boundary value problems. URSI-Stresa Symposium on Electromagnetic Waves, *Alta Frequenza*, Special issue, 38:291-96.

LINDEMAN, HENRIK H., Research Associate

Articles

Studies on the morphology of the sensory regions of the vestibular apparatus. *Ergebnisse der Anatomie und Entwicklungsgeschichte*, 42, 1:1-113.

Regional differences in structure of the vestibular sensory regions. *Journal of Laryngology and Otology*, 83:1-17.

Regional differences in sensitivity of the vestibular sensory epithelia to ototoxic antibiotics. *Acta Oto-laryngologica*, 67:177-89.

LIU, CHAO-HAN, Assistant Professor

Articles

With K. C. Yeh

The effect of ion drag on propagation of acoustic-gravity waves in the atmospheric

- F region. *Journal of Geophysical Research*, 74, 9:2248-55.
- Diffusion of rays in random media. *Alta Frequenza*, 38:137-42.
- Propagation of coherent magnetohydrodynamic waves. *Physics of Fluids*, 12, 8: 1642-48.
- With K. C. So
A new proof of superposition of dressed particles in plasma kinetic theory. *Journal of Physics*, A 2:605-10.
- LO, YUEN T., Professor
- Articles
- With A. R. Panicali
A probabilistic approach to large circular and spherical arrays. *IEEE Transactions on Antennas and Propagation*, AP-17, 4:514-22.
- With V. D. Agrawal
Distribution of sidelobe levels in random arrays. *Proceedings of IEEE*, 57, 10:1764-65.
- MAST, P. EDWARD, Associate Professor
- Articles
- With G. A. Deschamps, J. D. Dyson
Two-port isotropic radiator for unpolarized waves. *IEEE Transactions on Antennas and Propagation*, AP-17, 6:809-10.
- MAYEDA, WATURA, Professor
See Coordinated Science Laboratory.
- MAYES, PAUL E., Professor
- Articles
- With K. E. Jones
Continuously scaled transmission lines with applications to log-periodic antennas. *IEEE Transactions on Antennas and Propagation*, AP-17, 1:2-9.
- MECHTLY, EUGENE A., Associate Professor
- Articles
- With K. Seino, L. G. Smith
Lower ionosphere electron densities measured during the solar eclipse of 12 November 1966. *Radio Science*, 4, 4:371-75.
- With M. M. Rao, D. O. Skaperdas, L. G. Smith
Latitude variation of the lower ionosphere. *Ibid.*, 6:517-20.
- With C. F. Sechrist, Jr., J. S. Shirke, J. S. Theon
Coordinated rocket measurements on the D-region winter anomaly-I. Experimental results. *Journal of Atmospheric and Terrestrial Physics*, 31:145-53.
- Bulletins and Technical Reports
- The international system of units, physical constants, and conversion factors. National Aeronautics and Space Administration Special Publication NASA SP-7012, revised, U.S. Government Printing Office.
- MERKELO, HENRY, Assistant Professor
- Articles
- With S. R. Hartman, T. Mar, G. S. Singhal, Govindjee
Mode-locked lasers: measurement of very fast radiative decay in fluorescent systems. *Science*, 164:301.
- With D. L. Keune, J. A. Rossi, O. L. Gaddy, N. Holonyak, Jr.
The behavior of exciton formation and laser emission in Cd(SeS) platelets. *Applied Physics Letters*, 14:99.
- With J. P. Kaplafka, L. Goldstein
Quenching of helium afterglow by infrared photons. *Ibid.*, 15:113.
- Physical electronics in electrical engineering. In *Proceedings of ASEE annual meeting*, Pennsylvania State University, University Park, pp. 152-59.
- METZE, GERNOT, Associate Professor
See Coordinated Science Laboratory.
- MITTRA, RAJ, Professor
- Articles
- Log-periodic antennas. In *Antenna theory part II*, ed. by Collin and Zucker, McGraw-Hill, New York, pp. 349-85.
- With C. P. Bates
A factorization procedure for Wiener-Hopf kernels. *IEEE Transactions on Antennas and Propagation*, AP-17, 1:102-03.
- Quasi-optical theory of diffraction by a semi-infinite waveguide with application to open resonators. URSI-Stresa Symposium on Electromagnetic Waves. *Alta Frequenza*, Special Issue, 38:339-44.
- With T. Itoh
Application of the sampling theorem to a multi-slit coupling structure of a confocal-mirror resonator. *Electronics Letters*, 5, 4:67-68.
- An analytical study of echelette grating with applications to open resonators. *IEEE Transactions on Microwave Theory and Techniques*, MTT-17, 6:319-27.
- A method for solving boundary value problems associated with a class of doubly-modified Wiener-Hopf structures. *Proceedings of IEEE*, 57, 12:2170-71.
- With G. S. Brown
Wave propagation in an open, periodic, two-dimensional iris waveguide. *Radio Science*, 4, 5:471-82.
- With A. R. Neureuther
A self-consistent investigation of Smith-Purcell radiation from a narrow tape helix. *Canadian Journal of Physics*, 47, 4:435-49.
- With G. F. VanBlaricum, Jr.
A modified residue calculus technique for solving a class of boundary value problems — Part I: waveguide discontinuities. *Ibid.*, pp. 302-09.
- A modified residue calculus technique for solving a class of boundary value problems — Part II: waveguide phased arrays, modulated surfaces, and diffraction grating. *Ibid.*, pp. 310-19.
- With S. W. Lee
Some aspects of numerical solution of boundary value problems. URSI-Stresa Symposium on Electromagnetic Waves. *Alta Frequenza*, Special Issue, 38:291-96.
- Admittance of a solid cylindrical antenna. *Canadian Journal of Physics*, 47, 18: 1959-70.
- With D. R. Wilton
A numerical approach for the determination of electromagnetic scattering characteristics of perfect conductors. *Ibid.*, 11:2064-65.
- With H. Sievering, R. Semonin
Lidar limitations imposed by laser coherence. *Journal of Optical Society of America*, 59, 12:1679-80.
- NARAYANA RAO, N., Associate Professor
- Articles
- Direction of arrival of hf radio waves deduced from ionospheric electron content gradients. *IEEE Transactions on Antennas and Propagation*, AP-17, 1:111-13.
- Bearing deviation in hf transionospheric prop-

- agation. III. Ray tracing investigation of the magnetoionic effect. *Radio Science*, 4, 2:153-61.
- With G. F. Lyon, J. A. Klobuchar
Acoustic waves in the ionosphere. *Journal of Atmospheric and Terrestrial Physics*, 31, 4:539-45.
- NEAL, JAMES P., Associate Professor
- Books**
Electrical engineering experimentation guide. Stipes Publishing Co., Champaign, Illinois, 109 pp.
- Articles**
Nurturing creativity in a measurements course. *Advances in Instrumentation*, 24, Part III, 603:1-6.
The self-teaching electrical engineering laboratory program for computer-guided experimentation. *Computer-Oriented Electrical Engineering Experiments 1969-1970*, Commission on Education, The National Academy of Engineering, p. 11.
- PERKINS, WILLIAM R., Professor
- Books**
With J. B. Cruz, Jr.
Engineering of dynamic systems. John Wiley and Sons, New York, 568 pp.
- Articles**
With P. Kokotović, J. B. Cruz, Jr., G. D'Ans
A decoupling method for approximate solution of large scale Riccati equations. In *Proceedings of second Hawaii international conference on system sciences*, University of Hawaii, pp. 791-94.
e-coupling method for near optimum design of large linear systems. *Proceedings of Institution of Electrical Engineers*, 116, 5:889-92.
- With D. F. Wilkie
Essential parameters in sensitivity analysis. *Automatica, The IFAC Journal*, 5, 191-97.
Generation of sensitivity functions for linear systems using low-order models. *IEEE Transactions on Automatic Control*, AC-14, 2:123-30.
Design of model following systems using the companion transformation. *Automatica, The IFAC Journal*, 5:615-22.
- PIERRET, ROBERT F., Assistant Professor
- Articles**
With T. L. Chiu, C. T. Sah
A slide rule for computing U_F and the bulk doping from MIS-capacitor high-frequency C-V curves. *IEEE Transactions on Electron Devices*, ED-16, 1:140-47.
With C. T. Sah, A. B. Tole
Exact analytical solution of high frequency lossless MOS capacitance-voltage characteristics and validity of charge analysis. *Solid-State Electronics*, 12, 9:681-88.
Error analysis of surface state density determination using the MOS capacitance method. *Ibid.*, pp. 689-710.
- POPPELBAUM, WOLFGANG, Professor
See Computer Science.
- SAH, CHIH-TANG, Professor
- Articles**
With R. F. Pierret, T. L. Chiu
A slide rule for computing U_F and bulk doping from MIS-capacitor high-frequency C-V curves. *IEEE Transactions on Electron Devices*, ED-16, 1:140-47.
- With L. D. Yau
Theory and experiments of low frequency generation-recombination noise in MOS transistors. *Ibid.*, pp. 170-77.
Observation of the ideal generation-recombination noise spectrum and spectra with voltage variable relaxation time in gold-doped silicon. *Applied Physics Letters*, 14, 9:267-69.
Geometrical dependences of the low-frequency generation-recombination noise in MOS transistors. *Solid-State Electronics*, 12, 11:903-05.
On the "excess white noise" in MOS transistors. *Ibid.*, 12:927-36.
- With H. S. Fu
Lumped model analysis of the low frequency generation noise in gold-doped silicon junction-gate field-effect transistors. *Solid-State Electronics*, 12, 8:605-18.
- With A. B. Tole, R. F. Pierret
Exact analytical solution of high frequency lossless MOS capacitance-voltage characteristics and validity of charge analysis. *Ibid.*, 9:681-88.
Error analysis of surface density determination using the MOS capacitance method. *Solid-State Electronics*, 12, 9:689-710.
- With L. Forbes, L. L. Rosier, A. F. Tasch, Jr., A. B. Tole
Thermal emission rates of carriers at gold centers in silicon. *Ibid.*, 15, 5:145-48.
- With L. L. Rosier, L. Forbes
Low-temperature high-frequency capacitance measurements of deep- and shallow-level impurity center concentrations. *Ibid.*, 6:161-64.
Direct observation of the multiplicity of impurity charge states in semiconductors from low-temperature high-frequency photocapacitance. *Ibid.*, 10:316-18.
- With L. Forbes
Application of the distributed equilibrium equivalent circuit model to semiconductor junction. *IEEE Transactions on Electron Devices*, ED-16, 12:1036-41.
- SECHRIST, CHALMERS F., JR., Associate Professor
- Articles**
With E. A. Mechtly, J. S. Shirke, J. S. Theon
Coordinated rocket measurements on the D-region winter anomaly-I. Experimental results. *Journal of Atmospheric and Terrestrial Physics*, 31:145-53.
- STREETMAN, BEN G., Assistant Professor
- Articles**
With N. Holonyak, Jr., H. V. Krone, W. Dale Compton
Current oscillations in Si p-i-n devices after irradiation with one-MeV electrons. *Applied Physics Letters*, 14, 2:63-65.
With N. Holonyak, Jr.
Current oscillations in deep-level doped semiconductors. *IBM Journal of Research and Development*, 13, 5:529-32.
With A. T. Maher, N. Holonyak, Jr.
Infrared detection properties of Zn-doped Si p-i-n diodes. *IEEE Transactions on Electron Devices*, ED-16, 11:963-64.
- SWENSON, GEORGE W., JR., Professor
- Articles**
With N. C. Mathur
On the space-frequency equivalence of a

- correlator interferometer. *Radio Science*, 4, 1:69-71.
- Synthetic-aperture radio telescopes. *Annual Reviews of Astronomy and Astrophysics*, 7: 353-73.
- TRICK, TIMOTHY N., Assistant Professor
See Coordinated Science Laboratory.
- TURNBULL, ROBERT J., Assistant Professor
- Articles
With J. R. Melcher
Electrohydrodynamic Rayleigh-Taylor bulk instability. *Physics of Fluids*, 12, 6:1160-66.
Effects of dielectrophoretic forces of the Bénard instability. *Ibid.*, 9:1809-15.
Free convection from a heated vertical plate in a direct-current electric field. *Ibid.*, 11: 2255-63.
- VERDEYEN, JOSEPH T., Professor
- Articles
With L. A. Schlie
Radial profile of neon $1s_2$ atoms in a He-Ne active discharge and their lens effect on lasing at 6401Å. *IEEE Journal of Quantum Electronics*, QE-5, 1:21.
With C. S. Liu, B. E. Cherrington
Dispersion corrected three wavelength laser heterodyne measurement of plasma densities. *Journal of Applied Physics*, 40, 1: 201-07.
Dispersion effects in a high-gain 3.39 μ He-Ne laser. *Journal of Applied Physics*, 40, 9: 3556-63.
With M. E. Fein, B. E. Cherrington
A thermally pumped CO₂ laser. *Applied Physics Letters*, 14, 11:337-40.
With R. T. Ku, B. E. Cherrington
Frequency shift at 3.39 μ due to competition by 6328Å laser radiation. *Ibid.*, pp. 3860-62.
With P. A. Miller, B. E. Cherrington
Measurement of dispersion at 6328Å and 6401Å due to neon $1s_2$ metastable atoms in a He-Ne discharge. *IEEE Journal of Quantum Electronics*, QE-5, 9:473-74.
- VON FOERSTER, HEINZ, Professor
- Books Edited
With J. W. Beachamp
Music by computers. John Wiley and Sons, New York, 139 pp.
- Articles
Molecular ethology: an immodest proposal for semantic clarification. In *Molecular mechanisms in memory and learning*, ed. by Ungar, Plenum Press, Inc., New York, pp. 213-48.
Sounds and music. In *Music by computers*, ed. by von Foerster and Beachamp, John Wiley and Sons, New York, pp. 3-10.
What is memory that it may have hindsight and foresight as well? In *The future of the brain sciences: proceedings of the third international conference*, ed. by Bogoch, Plenum Press, New York, pp. 16-64.
- WAX, NELSON, Professor
See Coordinated Science Laboratory.
- WEBB, HAROLD D., Professor
- Articles
Solar flares and magnetic storm of May 21 to 28, 1967. *Journal of Geophysical Research, Space Physics*, 74, 7:1880.
- YEH, KUNG C., Professor
- Articles
With C. H. Liu
Effect of ion drag on propagation of acoustic-gravity waves in the atmosphere F region. *Journal of Geophysical Research*, 74, 9: 2248-55.
Diffusion of rays in random media. *Alta Frequenza*, 38:137-42.
- DOCTORAL DISSERTATIONS
Adam, John R. (C. D. Hendricks, Jr., Adviser), The role of collection in determining raindrop size distributions.
Bahl, Lalit R. (R. T. Chien, Adviser), Correction of single and multiple bursts of errors.
Brieske, Gerald F. (H. M. von Foerster, Adviser), The analysis and synthesis of a learning teaching system.
Bruning, John A. (Y. T. Lo, Adviser), Multiple scattering by spheres.
Casasent, David P. (W. J. Poppelbaum, Adviser), An on-line electro-optical video processing system.
Chenoweth, Amos J. (D. F. Holshouser, Adviser), Internal modulation studies in gas lasers.
Erin, Tim (C. D. Hendricks, Adviser), Secondary electron emission of liquid insulators.
Esch, John W. (W. J. Poppelbaum, Adviser), —RASCEL— A programmable analog computer based on a regular array of stochastic computing element logic.
Fein, Michael E. (J. T. Verdeyen, Adviser), A thermally pumped carbon dioxide laser.
Gaddess, Terry G. (G. A. Metzger, Adviser), Improving the diagnosability of modular combinational logic by test point insertion.
Gordon, John P. (G. H. Fett, Adviser), Random input signal analysis of nonlinear systems with transport delay.
Green, Samuel I. (P. D. Coleman, Adviser), The point contact, electric-tunneling, submillimeter wave-length detector.
Gruberg, Edward R. (H. M. von Foerster, Adviser), Functional organization of the tectum of the tiger salamander (*Ambystoma tigrinum*).
Heller, James E. (J. B. Cruz, Adviser), A gradient algorithm for minimax design.
Hong, Se J. (R. T. Chien, Adviser), Arithmetic codes for high speed multipliers.
Imbriale, William A. (R. Mittra, Adviser), The two-dimensional inverse scattering problem.
Itoh, Tatsuo (R. Mittra, Adviser), Sub-optical resonators with grating mirrors.
Johnson, Carl J. (P. D. Coleman, Adviser), Extending electrooptic measurements on crystals out to 118 microns.
Kostelnicek, Richard J. (R. Mittra, Adviser), Radiation from an open-ended waveguide into an inhomogeneously filled space.
Liang, Charles S. (Y. T. Lo, Adviser), Antenna in a waveguide partially-filled with plasma.
Lipovski, Gerald J. (R. T. Chien, Adviser), The architecture of a large distributed logic associative processor.
Nishijima, Mitsuaki (W. D. Compton, Adviser), Electron impact desorption of ions and neutrals from polycrystalline tungsten.
Poggio, Andrew J. (P. E. Mayes, Adviser),

Numerical solution of integral equations of dipole and slot antennas.

Powell, Theo J. (G. A. Metzger, Adviser), A module diagnostic procedure for combinational logic.

Ransom, Preston L. (G. A. Deschamps, Adviser), The diffraction transformation of electromagnetic fields between two parallel planes.

Robertson, John A. (J. M. Crowley, Adviser), Interactions between a highly charged aerosol droplet and the surrounding gas.

Rollenhagen, David C. (W. J. Poppelbaum, Adviser), The Vista system for compression of television signal bandwidths.

Rossi, Jon A. (N. Holonyak, Jr., Adviser), Gallium arsenide platelet lasers.

Schertz, Donald R. (G. A. Metzger, Adviser), On the representation of digital faults.

Shea, Patrick D. (B. C. Kuo, Adviser), Optimal control of linear differential and difference games.

Starr, Stuart H. (D. Pines, Adviser), A linear response analysis of electromagnetic radiation emanating from a plasma.

Steiner, William G. (W. J. Poppelbaum, Adviser), Potentiomatrix—a novel display system possessing "innate intelligence."

Stigliani, Daniel J., Jr. (R. Mittra, Adviser), A study of holography for spherical particle size analysis.

Stinaff, Russell D. (W. R. Ashby, Adviser), Towards a systematic method of behavioral modelling.

Swatik, Donald S. (C. D. Hendricks, Adviser), Production of high current density ion beams by electrohydrodynamic spraying techniques.

Toida, Shunichi (W. Mayeda, Adviser), A characterization of biplanar graphs.

Tzeng, Kenneth K. M. (R. T. Chien, Adviser), On iterative decoding of BCH codes and decoding beyond the BCH bound.

Valleni, Robert R. (B. C. Kuo, Adviser), Control of stochastic linear discrete systems with random parameters.

Wey, Thomas J. (H. M. von Foerster, Adviser), On the realization of linear automata.

Yau, Leopoldo D. (C. T. Sah, Adviser), Generation-recombination noise in gold-doped silicon MOS transistors.

Zrnica, Dusan (C. D. Hendricks, Adviser), Stabilization of the Rayleigh-Taylor instability with magnetic feedback.

ENGINEERING ADMINISTRATION

CHERRINGTON, BLAKE E., Assistant Dean and Associate Professor of Electrical Engineering

See Electrical Engineering.

DRUCKER, DANIEL C., Dean of College of Engineering and Professor of Civil Engineering

Articles

Discipline and interdiscipline. *Technograph*, 84, 5:30-31.

Highway engineers confronted with continuous challenge. *Cook County Highway News*, 16, 4:3.

With W. F. Chen

Bearing capacity of concrete blocks or rock. *Journal of the Engineering Mechanics Division Proceedings of the American Society of Civil Engineers*, 95, EM4:955-78.

EVERITT, WILLIAM L., Dean Emeritus of College of Engineering

Books Edited

Modern electromagnetic fields. Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 332 pp. 1968.

Radar signal analysis. *Ibid.*, 329 pp.

The theory of applied probability. *Ibid.*, 506 pp.

Electromechanical devices for energy conversion and control systems. *Ibid.*, 617 pp.

Elements of control system analysis. *Ibid.*, 454 pp.

Solid state physical electronics. *Ibid.*, 633 pp.

Radar detection. *Ibid.*, 654 pp.

IBM electronic circuit analysis program techniques and applications. *Ibid.*, 401 pp.

Electromagnetic waves and radiating systems. *Ibid.*, 753 pp.

Solid state physical electronics. *Ibid.*, 633 pp.

Active integrated circuit synthesis. *Ibid.*, 292 pp.

Modern electromagnetic fields. *Ibid.*, 332 pp.

System analysis techniques. *Ibid.*, 472 pp.

Statistical communication theory and applications. *Ibid.*, 482 pp.

Signal theory. *Ibid.*, 317 pp.

Handbook of radar measurement. *Ibid.*, 426 pp.

Modern control engineering. *Ibid.*, 836 pp.

The physics of microwave propagation. *Ibid.*, 204 pp.

Articles

Engineering education in a dynamic society. *The Trend in Engineering*, 21, 3:5-10; 23-25.

WAKELAND, HOWARD L., Associate Dean and Professor of Agricultural Engineering

Articles

Surviving the sophomore slump. *Institute of Electrical and Electronic Student Journal*, 7, 4:5-8.

Undergraduate engineering seminar: agricultural engineering curricula for the seventies. *Proceedings of the American Society of Agricultural Engineers*, 169:21-30.

ENGLISH

ADELMAN, GARY, Assistant Professor

Articles

The pattern of Laurence's ideas. *Karamu*, 2, 2:75-93.

Poems

A fact like a mountain. *Poet*, January, pp. 9-10.

Worm. *Poet*, May, p. 1.

ALLEN, ROBERT R., Assistant Professor

Books Edited

The dialogue called Funus, a translation of Erasmus's *Colloquy* (1534), & A very pleasant & fruitful dialogue called the epicure, Gerrard's Translation of Erasmus's *Colloquy* (1545). Publications of the Renaissance English Text Society, vol. 3, University of Chicago Press, Chicago, 114 pp.

Articles

Christes bloodie sweat. *Notes and Queries*, 226, 7:268.

ALTENBERND, A. LYNN, Professor and
Head of Department

Books Edited

With Leslie L. Lewis

Introduction to literature: stories (2nd ed.).
The Macmillan Co., New York, 491 pp.

Introduction to literature: poems (2nd ed.).
Ibid., 487 pp.

Introduction to literature: plays (2nd ed.).
Ibid., 489 pp.

ANDERSEN, SALLY S., Instructor

Articles

The de-spiritualization of the elements in
Our Mutual Friend. *Discourse*, 12, 4:
423-33.

Poems

Flown. *Extension: An Anthology of Modern
Poetry*, Idlewild Publishing Co., San
Francisco, p. 5.

The visitation. *Ibid.*, p. 6.

Creature. *Spirit*, 36, 2:5.

APPLEBEE, ROGER K., Lecturer

Books

With J. R. Squire

Teaching English in the United Kingdom.
National Council of Teachers of English,
Champaign, Illinois, 290 pp.

BAYM, NINA Z., Associate Professor

Articles

Fleda Vetch and the plot of *The Spoils of
Poynnton*. *Publications of the Modern Li-
brary Association*, 84, 1:102-11.

The transcendentalism of Wallace Stevens.
Emerson Society Quarterly, 57:66-72.

Reviews

The voice of the poet: aspects of style in
the poetry of Emily Dickinson, by Brita
Lindberg-Seyersted. *Journal of English
and Germanic Philology*, 68, 2:320-33.

The romance in America, by Joel Porte.
Ibid., 4:723-27.

BENNETT, SCOTT B., Assistant Professor

Articles

Catholic emancipation, the *Quarterly Review*,
and Britain's constitutional revolution. *Victo-
rian Studies*, 12, 3:283-304.

BERRY, LLOYD E., Assistant to the
Chancellor and Professor

Books

The Geneva Bible: a facsimile of the 1560
edition. University of Wisconsin Press,
Madison, 1650 pp.

BOUTON, LAWRENCE F., Assistant
Professor

Articles

Identity constraints on the do so rule. *Papers
in Linguistics*, 1:231-47.

CAMPBELL, JACKSON J., Professor

Reviews

The Old English advent, by Robert Burlin.
Speculum, 44:627-29.

CURLEY, DANIEL, Professor

Articles

Where you wouldn't want to walk. *Hudson
Review*, 22, 3:442-48.

Poems

The world proves to be too much even with
Hampstead Heath. *Sou'wester*, Winter, p.
48.

At the Forge Pond. *Ibid.*, p. 49.

Exhausted, the traveller knows a moment of
weakness in the midst of a great museum.
Ibid., p. 49.

What is remembered. *Gnosis*, Winter, p. 23.
Home exile. *Ibid.*, p. 23.

At Phoenix Park. *Sou'wester*, Fall-Winter,
p. 28.

A child's rainy day. *Ibid.*, pp. 28-29.

A late martyr of the old troubles. *Gnosis*,
Fall-Winter, pp. 66-67.

Reviews

The military philosophers, by Anthony Powell.
New Leader, 52, 13:22-23.

DELIGIORIS, STAVROS G., Visiting
Associate Professor

Articles

Fauriel and modern Greek poetry. *Publica-
tions of the Modern Language Association*,
84:9-13.

Structuralism and the study of poetry. A
parametric analysis of Chaucer's *Shipman's
Tale* and *Parlament of Foules*. *Neuphil-
ologische Mitteilungen*, 70:297-306.

Poems

Three poems by T. Englezos and one by D.
Christodoulo (translated from modern
Greek into English). *Micromegas*, 2:9-12.

Reviews

The poetry of Lydgate, by Alain Renoir.
Comparative Literature, 21:273-77.

DOUGLAS, GEORGE H., Assistant Professor

Articles

Writing is still important. *The Journal of
Business Communication*, 6, 3:1-2.

Testing the writing deficiencies of our stu-
dents. *Ibid.*, 7, 2:3-4.

Reviews

James Truslow Adams: historian of the
American dream, by Allan Nevins. *Jour-
nal of American Studies*, 3, 1:152-53.

Semantics and communication, by John C.
Condon, Jr. *The Journal of Business Com-
munication*, 7, 2:51-54.

DUSSINGER, JOHN A., Associate Professor

Reviews

Henry Fielding and the language of irony,
by Glenn W. Hatfield; and Fielding and
the nature of the novel, by Robert Alter.
Journal of English and Germanic Philology,
68:529-35.

Samuel Richardson and the dramatic novel,
by Ira Konigsberg. *Philological Quarterly*,
48:385-86.

FLANAGAN, JOHN T., Professor

Articles

Folklore. In *American literary scholarship,
an annual/1967*, ed. by James Woodress,
Duke University Press, Durham, North
Carolina, pp. 266-91.

Long live the hodja. *Southern Folklore
Quarterly*, 33:48-53.

Folklore in Faulkner's fiction. *Papers on
Language and Literature*, 5, supplement:
119-44.

Big game hunter, Henry H. Sibley. *Minne-
sota History*, 41:217-28.

Reviews

Violence in recent southern fiction, by Louise
Y. Gossett. *English Studies*, Anglo-Ameri-
can supplement, 50:92-93.

One hundred favorite folktales, by Stith
Thompson. *Comparative Literature Studies*,
6:342-43.

- The urgent west, by Walter Allen. *Journal of Illinois State Historical Society*, 62: 327-29.
- Before Mark Twain: a sampler of old, old times on the Mississippi, by John F. McDermott. *Indiana Magazine of History*, 65: 65-66.
- The Negro and his folklore, by Bruce Jackson. *Journal of English and Germanic Philology*, 68:194-95.
- James Branch Cabell: the dream and the reality, by Desmond Tarrant. *Ibid.*, pp. 195-96.
- FRIEDMAN, PAUL A.**, Assistant Professor
- Short Stories**
- The inheritance editor. *Pequod*, 4:51-57.
- The forecast. *The Arlington Quarterly*, 2: 59-70.
- GIESELMAN, ROBERT D.**, Assistant Professor
- Articles**
- With J. Philpott
- Business communication consulting: a survey of faculty practices. *Journal of Business Communication*, 7, 1:15-22.
- GOLDMAN, MARCUS S.**, Professor Emeritus
- Books**
- Poems of the past. Stineham Press, Luxemburg, Vermont, 109 pp.
- HENDRICK, GEORGE**, Professor
- Books**
- With D. Gerstenberger
- The American novel: a checklist of twentieth century fiction, vol. I: 1789-1959. Swallow Press, Inc., Chicago, 333 pp.
- Articles**
- Thoughts on the variorum Civil Disobedience. *Emerson Society Quarterly*, 56:60-62.
- With Elizabeth V. Wright
- Annual bibliography of short fiction explanation, 1968. *Studies in Short Fiction*, 6: 486-524.
- Reviews**
- Katherine Anne Porter: the regional stories, by Winfred S. Emmons. *Studies in Short Fiction*, 6:229.
- Music in Willa Cather's fiction, by Richard Giannone. *American Quarterly*, 21:370.
- '10' and the phoenix. *The D. H. Lawrence Review*, 2:162-67.
- HOGAN, ROBERT F.**, Lecturer
- Articles**
- Recent curriculum trends in English. *Nation's Schools*, 84, 1:37-38.
- Toward a unified curriculum in English. *Alberta English*, 9, 2:5-9.
- Interview on the teaching of English. *Council for Basic Education Bulletin*, 13, 6:6-15.
- HOLADAY, ALLAN G.**, Professor
- Articles**
- Antonio and the allegory of salvation. *Shakespeare Studies IV*, ed. by J. Leeds Barroll, Center for Shakespeare Studies, Vanderbilt University, Nashville, pp. 109-18.
- Reviews**
- Biblical drama in England from the Middle Ages to the present day, by Murray Roston. *English Language Notes*, 7, 2:158-60.
- HOOK, JULIUS N.**, Professor
- Books**
- With Ryoji Inoue
- Determiners, English diction, and idioms. Kaitakusha, Tokyo, 96 pp.
- Prepositions. *Ibid.*, 87 pp.
- Two-word verbs. *Ibid.*, 133 pp.
- Verbs. *Ibid.*, 84 pp.
- Articles**
- English language programs for the seventies. *Illinois English Bulletin*, 57, 1:1-13.
- English teachers in a world we never made. *English Journal*, 58, 2:158-92.
- Bulletins and Technical Reports**
- With P. H. Jacobs, R. D. Crisp
- Illinois state-wide curriculum study center in the preparation of secondary school English teachers: final report. Illinois State-Wide Curriculum Study Center in the Preparation of Secondary School English Teachers, Urbana, Illinois, 163 pp.
- KWIC-index bibliography of selected references on the preparation of secondary school English teachers. *Ibid.*, 141 pp.
- JACOBS, PAUL H.**, Assistant Professor
- Bulletins and Technical Reports**
- With R. D. Crisp
- The competency of Illinois secondary school English teachers in educational measurement and evaluation. *Ibid.*, 56 pp.
- With W. H. Evans
- Illinois tests in the teaching of high school English. *Ibid.*, 17 pp.
- With J. N. Hook, R. D. Crisp
- Illinois state-wide curriculum study center in the preparation of secondary school English teachers: final report. *Ibid.*, 163 pp.
- With R. D. Crisp, J. N. Hook
- KWIC-index bibliography of selected references on the preparation of secondary school English teachers. *Ibid.*, 141 pp.
- KAUFMANN, U. MILO**, Associate Professor
- Reviews**
- The presence of the word, by Walter J. Ong, S. J. *The Journal of Aesthetic Education*, 3:161-63.
- KINNAMON, KENETH**, Assistant Professor
- Articles**
- Native son: the personal, social, and political background. *Phylon: The Atlanta University Review of Race and Culture*, 30, 1:66-72.
- The pastoral impulse in Richard Wright. *Midcontinent American Studies Journal*, 10, 1:41-47.
- Richard Wright: proletarian poet. *Concerning Poetry*, 2, 1:39-50.
- Richard Wright's use of Othello in Native Son. *CLA Journal*, 12, 4:358-59.
- A bibliography of Perry Miller. *Bulletin of Bibliography*, 26, 2:45-51.
- Reviews**
- Richard Wright: a biography, by Constance Webb. *American Literature*, 40, 4:575-76.
- Ernest Hemingway: a comprehensive bibliography, by Audre Hanneman. *Journal of English and Germanic Philology*, 68, 3: 556-60.
- KRAMER, DALE V.**, Associate Professor
- Articles**
- Metaphor and meaning in crossing the bar. *Forum*, 10, 3:44-47.

Reviews

Limits of the novel: evolutions of a form from Chaucer to Robbe-Grillet, by David I. Grossvogel. *Mundus Artium*, 2, 2:94-95.

LIEBERMAN, LAURENCE, Associate Professor

Poems

The coral reef. *The Contemporary American Poets: American Poetry Since 1940*, ed. by Mark Strand, New American Library, New York, 186-89.

The unblinding. *The New Yorker Book of Poems*, The Viking Press, New York, pp. 752-53.

Tarpon and the flat. *Some Haystacks Don't Even Have Any Needle*, ed. by Stephen Dunning, Scott-Foresman Co., Glenview, Illinois, pp. 70; 124.

Underwater skin flight: peacock flounder. *Saturday Review*, April 26, p. 57.

The spearing and homage to Austin Warren. *Carleton Miscellany*, 10, 2:56-60.

The tool box. *The Far Point*, 3, Fall/Winter, pp. 23-24.

On the life that waits and bone dance. *Whetstone*, 3, 1:43-45.

Articles

Words into skin. *The Atlantic Monthly*, April, pp. 131-32.

Critic of the month: VII: a confluence of poets. *Poetry*, 114, 1:40-58.

Reviews

Shall we gather at the river, by James Wright. *Poetry*, 114, 1:40-41.

The heart's garden the garden's heart, by Kenneth Rexroth. *Ibid.*, p. 42.

The speed of darkness, by Muriel Rukeyser. *Ibid.*, pp. 42-43.

Bending the bow, by Robert Duncan. *Ibid.*, pp. 43-44.

The collected poems, by Kenneth Patchen. *Ibid.*, p. 44.

Selected poems, by Karl Shapiro. *Ibid.*, pp. 44-47.

Rose Domenics, by Elliott Coleman. *Ibid.*, p. 47.

Of being numerous, by George Oppen. *Ibid.*, p. 48.

Cables to the ace, by Thomas Merton. *Ibid.*, p. 48.

Onions and roses, by Vassar Miller. *Ibid.*, pp. 48-49.

Spring journal: poems, by Edwin Honig. *Ibid.*, pp. 49-50.

The body, by Michael Benedikt. *Ibid.*, pp. 50-51.

Finding the measure, by Robert Kelly. *Ibid.*, p. 51.

Zbigniew, Herbert: selected poems, tr. by Czeslaw Milosz. *Ibid.*, pp. 51-54.

Ivan Goll: selected poems, edited by Paul Zwiarg. *Ibid.*, pp. 54-55.

The complete plays of Vladimir Mayakovsky, tr. by Guy Daniels. *Ibid.*, p. 55.

The unwritten song (vol. II), edited by Willard Trask. *Poetry*, April, p. 56.

Masks, by Edward Brathwaite. *Ibid.*, pp. 56-57.

Selected poems, by A. R. Ammons. *Ibid.*, pp. 57-58.

NOBLE, YVONNE, Assistant Professor

Articles

The standard of the professed. *Environment, the University and the Welfare of Man*, ed. by B. R. Wilson, J. B. Lippincott, Philadelphia, pp. 163-79.

PURVES, ALAN C., Associate Professor

Articles

With B. H. Choppin

A comparison of open-ended and multiple-choice items dealing with literary understanding. In *Research in the teaching of English*, vol. 3, pp. 15-24.

Structure and sequence in literature study: a second look. *Journal of Aesthetic Education*, 3:103-17.

The teacher as human being. *High School English Notes*, 15:1-3.

ROGERS, ROBERT W., Professor

Articles

With Mrs. Exalton A. Delco, Jr., G. T. Matthews

Opportunities and responsibilities for developing human resources. *Liberal Education*, 55, 2:235-43.

SANDERS, CHARLES, Associate Professor

Articles

With R. A. Epple

An annotated checklist of 200 experimental, student, and avant-garde films for writing classes. *Illinois English Bulletin*, 57, 2: 1-26.

SHAPIRO, MICHAEL, Assistant Professor

Articles

Music and song in plays acted by children's companies during the English Renaissance. *Current Musicology*, 7, 97-110.

Children's troupes: dramatic illusion and acting style. *Comparative Drama*, 3, 1:42-53.

SHATTUCK, CHARLES H., Professor

Books

The Hamlet of Edwin Booth. University of Illinois Press, Urbana and London, 321 pp.

Articles

The Shakespeare promptbooks: first supplement. *Theatre Notebook*, 24, 1:5-17.

Shakespeare survey 20. *Ibid.*, 23, 4:159-61.

SMALLEY, DONALD A., Professor

Books Edited

Anthony Trollope: the critical heritage. Routledge and Kegan Paul, London; Barnes and Noble, New York, 572 pp.

Reviews

Browning's Roman murder story: a reading of "the ring and the book," by Richard D. Atlack and James F. Loucks II. *English Language Notes*, 6:301-03.

STILLINGER, JACK, Professor

Books Edited

John Stuart Mill: autobiography. Houghton Mifflin Co., Boston, xxv and 196 pp.

John Stuart Mill: autobiography and other writings. Houghton Mifflin Co., Boston, xxv and 477 pp.

Articles

The order of poems in Keats's first volume. *Philological Quarterly*, 48:92-101.

Poems

My friend Gordon explains physics to the world. *Perspective*, 16:27.

Peonies over the eyes. *Ibid.*, p. 28.

Love poem? *Sou'wester*, Spring, p. 12.

The guillemot is Susan. *Ibid.*, p. 12.

On the departure of my best muse for Japan. *Ibid.*, p. 13.

Reviews

John Keats, by Robert Gittings. *Keats-Shelley Journal*, 18:107-11.

The improvement of mankind: the social and political thought of John Stuart Mill, by John M. Robson. *English Language Notes*, 7:151-53.

STUBBS, JOHN C., Assistant Professor

Articles

The ideal in the literature and art of the American renaissance. *Emerson Society Quarterly*, 55, 2:55-63.

TIBBETTS, ARNOLD M., Assistant Professor

Books

The strategies of rhetoric. Scott, Foresman and Co., Chicago, 330 pp.

TRAHERN, JOSEPH B., JR., Assistant Professor

Articles

The old English *almsgiving*. *Notes and Queries*, 214:46-47.

A defectioe potus sui: a sapiential basis for *ealuscserwen* and *meoduscserwen*. *Neuphilologische Mitteilungen*, 70:62-69.

Old English poetry exclusive of Beowulf. *The Year's Work in Old English Studies*, *Old English Newsletter*, 3, 1:16-21.

WALDOFF, LEON, Assistant Professor

Articles

Prufrock's defenses and our response. *American Imago*, 26, 2:182-93.

WASSON, RICHARD H., Associate Professor

Articles

Like a burnished throne: T. S. Eliot and the demonism of technology. *Centennial Review*, 13, 3:302-16.

Herbert Read now: a solution to eros. *Journal of Aesthetic Education*, 3, 4:11-25.

Notes on a new sensibility. *Partisan Review*, 36, 3:460-74.

The profession and the media. *NUC-MLC Newsletter*, 1, 4:10.

WEEKS, FRANCIS W., Professor and Chairman Division of Business and Technical Writing

Articles

With B. Solomon

A tentative approach to a curriculum in technical writing. *The ABCA Bulletin*, 32, 1:19-23.

Reviews

Handbook of business letters by L. E. Frailey. *The Journal of Business Communication*, 7, 2:45-46.

WILKIE, BRIAN, Associate Professor

Reviews

Byron and the dynamics of metaphor, by W. Paul Elledge. *Journal of English and Germanic Philology*, 68:535-38.

WILSON, HARRIS W., Professor

Books

With Louis G. Locke

A concise handbook of grammar. Holt, Rinehart and Winston, New York, 100 pp.

Books Edited

H. G. Wells, the wealth of Mr. Waddy. Southern Illinois University Press, Carbondale, Illinois, 235 pp.

Reviews

Structure of four novels by H. G. Wells, by Kenneth B. Newell. *English Literature in Transition*, 3:160-63.

DOCTORAL DISSERTATIONS

Dwyer, Warren F. (B. Wilkie, Adviser), Profit, poetry, and politics in Augustan translation: a study of the Tonson-Garth *Metamorphoses* of 1717.

Fleming, Esther M. (D. Smalley, Adviser), The art of Anthony Trollope: studies in characterization in the Barsetshire novels.

Forstner, Lorne J. (J. Stillinger, Adviser), A study of the psychophilosophical origins of the romantic imagination.

Haggerty, John J. (R. Gettmann, Adviser), James Hogg's *The Private Memoirs and Confessions of a Justified Sinner*: background, text, and analysis.

Johnson, Abby A. (E. J. Brandabur, Adviser), *The Poetry Review*: poetic conservatism in an age of experimentation, 1909-1968.

Johnson, James D. (J. J. Campbell, Adviser), Formulaic diction and thematic composition in the alliterative *Morte d' Arthur*.

Maccubbin, Robert P. (B. A. Milligan, Adviser), A critical study of odes for St. Cecilia's day, 1683-1697.

McCreary, Eugene P. (A. E. Barker, Adviser), Charity and related principles in the writings of Sir Francis Bacon and Sir Thomas Browne.

Miller, William V. (J. T. Flanagan, Adviser), The technique of Sherwood Anderson's short stories.

Neufeldt, Victor A. (D. Smalley, Adviser), The shared vision of Anne and Emily Brontë: the context for *Wuthering Heights*.

Oliver, Dennis M. (J. A. Dussinger, Adviser), Edward Gibbon and the mode of history.

Poston, Marianne S. (B. A. Milligan, Adviser), Robert Greene's satire.

Potet, Daniel P., II (J. J. Campbell, Adviser), *The Hegge Plays*: an approach to the aesthetics of medieval drama.

Scheick, William J. (E. H. Davidson, Adviser), The Will and the Word: the experience of conversion in the poetry of Edward Taylor.

Schreiber, Earl G. (R. H. Green, Adviser), The figure of Venus in late middle English poetry.

Smith, Frederick A. (J. T. Flanagan, Adviser), E. P. Whipple, Nineteenth Century American literary critic.

Summers, Marcia P. (R. A. Gettmann, Adviser), The use of subordinate characters as dramatized narrators in twentieth-century novels.

Swinson, Henry W. (E. J. Brandabur, Adviser), Joyce and the theater.

Tanksley, William R. (J. T. Flanagan, Adviser), Frederick J. Hoffman as literary scholar and critic.

Taylor, James W. (A. L. Altenbernd, Adviser), The Swedenborgianism of W. D. Howells.

Yellin, Jean F. (S. Paul, Adviser), The negro in pre-Civil War literature.

Zelnick, Stephen C. (A. C. Purves, Adviser), The pursuit of conviction in *Sartor Resartus*: the meaning of its style and structure.

ENTOMOLOGY

BHASKARAN, GOVINDAN, Research Associate

Articles

With P. Sivasubramanian

Development of transplanted imaginal disks in x-irradiated housefly pupae. *Nature*, 222: 786-87.

Metamorphosis of imaginal disks of the housefly: evagination of transplanted disks. *Journal of Experimental Zoology*, 171:385-96.

BHATTACHARYA, ANOOP K., Research Associate

Articles

With N. C. Pant

Nutritional behavior of khapra beetle, *Trogoderma granarium* Everts (Coleoptera: Dermestidae) on leguminous seeds. *Journal of Stored Products Research*, 4:305-15.

Nature of growth inhibitors for *Trogoderma granarium* Everts (Coleoptera: Dermestidae) in lentil (*Lens esculenta* Moench.) and French bean, *Phaseolus vulgaris* L. *Ibid.*, 5:379-88.

Growth and development of khapra beetle, *Trogoderma granarium* Everts (Coleoptera: Dermestidae) on leguminous seeds. *Bulletin of Entomological Research*, 59:383-88.

With R. P. Srivastava

Insect sex-attractants (kitoin mai hasana akarsan—article in Hindi language). *Vijyan Pragati* (C.S.I.R.), New Delhi, India, January.

With G. P. Waldbauer

Quantitative determination of uric acid in insect feces by lithium carbonate extraction and the enzymatic-spectrophotometric method. *Annals of the Entomological Society of America*, 62:925-27.

Fecal uric acid as an indicator in the determination of food utilization. *Journal of Insect Physiology*, 15:1129-35.

BOTH, GARY M., Assistant Professor

Articles

Use of uric acid analysis to evaluate alfalfa seed chalcid infestation in alfalfa seed. *Annals of the Entomological Society of America*, 62:1379-82.

CUPP, EDDIE W., U.S.P.H. Fellow

Articles

With H. W. Fowler, Jr.

Anomalous dimorphism in *Aedes vexans*. *Ibid.*, pp. 914-17.

FRAENKEL, GOTTFRIED S., Professor

Articles

With P. Berreux

Puparium formation in flies: contraction of puparium induced by ecdysone. *Science*, 164:1182.

With W. H. Fogal

The role of hursicon in melanization and endocuticle formation of the cuticle of the adult fleshfly, *Sarcophaga bullata*. *Journal of Insect Physiology*, 15:1235-40.

Melanin in the puparium and adult integument of the fleshfly, *Sarcophaga bullata*. *Ibid.*, pp. 1437-47.

With T. H. Hsiao

Properties of leptinotarsin: a toxic hemolymph protein from the Colorado potato beetle. *Toxicon*, 7:119-30.

With M. Seligman, S. Friedman

Bursicon mediation of tyrosine hydroxylation during tanning of the adult cuticle of the fly, *Sarcophaga bullata*. *Journal of Insect Physiology*, 15:553-62.

Hormonal control of turnover of tyrosine and tyrosine phosphate during tanning of the adult cuticle in the fly, *Sarcophaga bullata*. *Ibid.*, pp. 1085-1102.

With J. Zdarek

Correlated effects of ecdysone and neurosecretion in puparium formation (pupariation) of flies. *Proceedings of the National Academy of Sciences*, 64:565-72.

FRIEDMAN, STANLEY, Professor

Articles

With L. L. Keeley

Effects of long term cardiectomy allatectomy on mitochondrial respiration in the cockroach, *Blaberus discoidalis*. *Journal of Insect Physiology*, 15:509-18.

With M. Seligman, G. Fraenkel

Bursicon mediation of tyrosine hydroxylation during tanning of the adult cuticle of the fly, *Sarcophaga bullata*. *Journal of Insect Physiology*, 15:553-62.

Hormonal control of turnover of tyrosine and tyrosine phosphate during tanning of the adult cuticle of the fly, *Sarcophaga bullata*. *Ibid.*, pp. 1085-1101.

GHEENT, ARTHUR W., Associate Professor

See Zoology.

HORSFALL, WILLIAM R., Professor

Articles

With E. W. Cupp

Biological basis for placement of *Aedes sierrensis* (Ludlow) in the subgenus *Finlaya* Theobald. *Mosquito Systematic Newsletter*, 1:51-52.

With M. C. Ronquillo

Genesis of the reproductive system of mosquitoes. I. Female. *Journal of Morphology*, 129:249-80.

With M. Trpis

Development of *Aedes sticticus* (Meigen) in relation to temperature, diet, density and depth. *Annales Zoologici Fennici*, 6:156-60.

With F. R. Voorhees, E. W. Cupp,

H. W. Fowler

Moment of hatching of *Aedes vexans* (Meigen): feature photograph. *Annals of the Entomological Society of America*, 62: 253.

Reviews

Entomological parasitology, by M. Leclercq. *Science*, 165:273-74.

JAYCOX, ELBERT R., Professor

See Horticulture.

LARSEN, JOSEPH R., Professor and Head of Department

Books

A laboratory manual in biology (rev. ed.). Stipes Publishing Co., Champaign, Illinois, 294 pp.

METCALF, ROBERT L., Professor

See Zoology.

ROSS, HERBERT H., Professor Emeritus

Articles

With T. A. Cooley

A new Nearctic leafhopper of the genus

Flexamia (Homoptera: Cicadellidae). *Entomology News*, 80:246-48.

With K. G. A. Hamilton

Phylogeny and dispersal of the grassland leafhopper genus *Diplocolenus* (Homoptera: Cicadellidae). *Annals of the Entomological Society of America*, 63:328-31.

SELANDER, RICHARD B., Professor

Books

With J. M. Mathieu

Ecology, behavior, and adult anatomy of the Albida Group of the genus *Epicauta* (Coleoptera, Meloidae). Illinois Biological Monographs 41, University of Illinois Press, Urbana, 168 pp.

Articles

With R. C. Weddle

The ontogeny of blister beetles (Coleoptera, Meloidae). II. The effects of age of triungulin larvae at feeding and temperature on development in *Epicauta segmenta*. *Annals of the Entomological Society of America*, 62:27-39.

STANNARD, LEWIS J., Professor

See Agricultural Entomology.

STERNBURG, JAMES G., Professor

Articles

With G. P. Waldbauer

Bimodal emergence of adult *Hyalophora cecropia* (L.) moths under natural conditions. *Annals of the Entomological Society of America*, 62:1422-29.

VOORHEES, FRANK R., University Fellow

Articles

Seven-legged mirid (Hemiptera: Miridae). *Annals of the Entomological Society of America*, 62:1492-93.

WALDBAUER, GILBERT P., Associate Professor

Articles

With A. K. Bhattacharya

Quantitative determination of uric acid in insect feces by lithium carbonate extraction and the enzymatic-spectrophotometric method. *Annals of the Entomological Society of America*, 62:925-27.

Fecal uric acid as an indicator in the determination of food utilization. *Journal of Insect Physiology*, 15:1129-35.

With J. G. Sternburg

Bimodal emergence of adult *Hyalophora cecropia* (L.) under natural conditions. *Annals of the Entomological Society of America*, 62:1422-29.

WILLIS, JUDITH H., Associate Professor

Articles

The programming of differentiation and its control by juvenile hormone in saturniids. *Journal of Embryology and Experimental Morphology*, 22:27-44.

ŽDÁREK, JAN, Research Associate

Articles

With G. Fraenkel

Correlated effects of ecdysone and neurosecretion in puparium formation (pupariation) of flies. *Proceedings of the National Academy of Sciences*, 64:565-72.

DOCTORAL DISSERTATIONS

Allen, Robert T. (H. H. Ross, Adviser), A

preliminary study of the phylogenetic relationships among species of the genus *Loxandrus* (coleoptera: carabidae: pterostichini).

Benson, Robert L. (S. Friedman, Adviser), The synthesis of 2-amino-2-deoxy-D-glucose 6-phosphate in the housefly, *Musca domestica* L.

Chang, Franklin (S. Friedman, Adviser), A developmental analysis of the uptake and release of lipids by the fat body of the tobacco hornworm, *Manduca sexta* Johannson.

Cupp, Eddie W. (W. R. Horsfall, Adviser), Effect of thermal stress during embryogeny on the larval and imaginal morphology of *Aedes* mosquitoes (diptera: culicidae).

Eertmoed, Gary E. (R. B. Selander, Adviser), The phenetic relationships of the Epipsocetac (psocoptera): the higher taxa and the species of two new families.

Fowler, Harland W., Jr. (W. R. Horsfall, Adviser), Binomics of *Aedes vexans* (meigen) (diptera: culicidae).

Voorhees, Frank R. (W. R. Horsfall, Adviser), Genesis of the reproductive system of the mosquito *Aedes stimulans* (walker) as influenced by serial temperature.

Weddle, Richard Charles. (R. B. Selander, Adviser), Experimental studies of the ecological and hormonal control of postembryonic ontogeny in blister beetles of the genus *Epicauta*.

Wilson, George R. (J. R. Larsen, Adviser), Diapause termination in the tobacco hornworm: deep diapause, diapause maturity, photoperiod and wounding.

EXCEPTIONAL CHILDREN, RESEARCH ON

BIJOU, SIDNEY W., Professor

See Psychology.

CLARK, GARY M., Assistant Professor

Articles

With W. J. Younie

Personnel training needs for cooperative secondary school programs for mentally retarded youth. *Education and Training of the Mentally Retarded*, 4, 4:186-94.

Reviews

The retarded adult in the community, by E. Katz. *American Journal of Mental Deficiency*, 73, 6:992-93.

Expanding concepts in mental retardation: a symposium, ed. by G. A. Jervis. *Ibid.*, 74, 1:142-43.

DURANT, ADRIAN J., JR., Senior Specialist in Education

Books Edited

With A. Hirshoren

Psycho-educational problems of exceptional children. Selected academic readings, Associated Educational Services Corp., New York, 176 pp.

ELLIS, MICHAEL J., Assistant Professor

See Recreation and Park Administration.

HENDERSON, ROBERT A., Professor and Chairman of Department

Articles

Teaching the multiply handicapped mentally retarded child. In *The multiply handicapped child*, ed. by Wolf and Anderson, Charles C. Thomas, Springfield, Illinois, pp. 202-05.

Reviews

- The long pursuit, by Richard Hough. *Marine Corps Gazette*, 53, 10:12.
 General Giap: Politician and strategist, by Robert J. O'Neill. *Ibid.*, 11:20.

JORDAN, LAURA J., Associate Professor

Articles

- Promoting reading comprehension. *Education and Training of the Mentally Retarded*, 4, 3:132-37.

Reviews

- Teaching the educable mentally retarded, ed. by H. D. Love. *Exceptional Children*, 35, 9:762-64.

KARNES, MERLE B., Professor

Articles

- Family involvement in educating the handicapped: utilizing research findings from culturally disadvantaged. In *Selected convention papers, 47th annual international convention*, Council for Exceptional Children, Washington, D.C., pp. 499-504.

- A blueprint for incorporating research findings into practice. *Illinois Journal of Education*, 60, 1:43-46.

- Administrative leadership in special education: the change and the challenge. In *Bureau memorandum*, Bureau of the Handicapped, Wisconsin Department of Public Instruction, Madison, 10, 3:17-22.

With A. S. Hodgins

- The effects of a highly structured program on the measured intelligence of culturally disadvantaged four-year-old children. *Psychology in the Schools*, 6, 1:89-91.

With A. S. Hodgins, J. A. Teska

- A longitudinal study of disadvantaged children who participated in three different pre-school programs. In *Selected convention papers, 47th international convention*, Council for Exceptional Children, Washington, D.C., pp. 438-54.

Reviews

- Disadvantaged child, Head Start and early intervention, vol. 2, ed. by Jerome Helmuth. *Exceptional Children*, 36, 2:136-37.

PARASKEVOPOULOS, JOHN, Assistant Professor

Books

With S. A. Kirk

- The development and psychometric characteristics of the Illinois Test of Psycholinguistic Abilities. University of Illinois Press, Urbana, 243 pp.

Articles

- How students rate their teachers. *Journal of Educational Research*, 62, 1:25-29. 1968.

- Developmental stages for decoding symmetry in retarded and gifted children. *American Journal of Mental Deficiency*, 73, 3:447-54. 1968.

- Effects of redundancy on information reduction tasks. *Journal of Experimental Child Psychology*, 7, 2:195-202.

- Diagnosis of learning disabilities. *School and Life*, Athens, Greece, July, pp. 1-16.

- Creativity: its nature and nurture. *Teacher's Scientific Tribune*, Athens, Greece, June, pp. 18-23.

With L. F. Robinson

- Comparison of college performance of cold war veterans and non-veterans. *College and University*, 44:189-91.

With R. Dremuk

- Grading patterns for foreign students: a faculty survey. *International, Educational and Cultural Exchange*, 4, 3:55-60.

With J. M. McCarthy

- Behavior patterns of learning disabled, emotionally disturbed, and average children. *Exceptional Children*, 38, 2:69-74.

QUIGLEY, STEPHEN P., Professor

Books

- The influence of fingerspelling on the development of language, communication, and educational achievement in deaf children. Institute for Research on Exceptional Children, Urbana, Illinois, 99 pp.

Articles

- The deaf and hard of hearing. *Review of Educational Research*, 34, 1:103-24.

- Social adjustment of deaf persons in the United States. *International Audiology*, 8, 4:472-79.

- Higher education for deaf persons in regular institutions. *Journal of Rehabilitation of the Deaf*, 3, 1:34-43.

Bulletins and Technical Reports

With F. E. Thomure

- Some effects of hearing impairment upon school performance. Office of the Superintendent of Public Instruction, Springfield, Illinois, 20 pp.

SALVIA, JOHN A., Assistant Professor

Articles

With J. D. Schein

- Color blindness in mentally retarded children. *Exceptional Children*, 35, 8:609-12.

SILIKOVITZ, RONALD G., Assistant Professor

Articles

With A. Whimbey, V. Fischhoff

- Memory span: a forgotten capacity. *Journal of Educational Psychology*, 60, 1:56-58.

FINANCE

ARLT, CARL T., Professor

Articles

- Background and history. In *The one-bank holding company*, ed. by H. Proehnow, Rand-McNally, Chicago, pp. 12-29.

- The economic outlook. *Illinois Banker*, 50, 7:8-9, 37.

COOPER, JAMES R., Assistant Professor

Articles

- New HUD policies: how will they affect urban renewal appraisals? *The Real Estate Appraiser*, July-August, pp. 28-37.

- The housing outlook for 1969. *Illinois Business Review*, 26, 3:6-8.

FORBES, STEPHEN W., Assistant Professor

Articles

- Automobile bodily injury liability loss reserving techniques and simulation. *The Journal of Risk and Insurance*, 36, 5:597-614.

GENTRY, JAMES A., Assistant Professor

Articles

With J. R. Pike

- Return on common stock portfolios of life insurance companies. *The Journal of Risk and Insurance*, 36, 5:545-52.

MEHR, ROBERT I., Professor

Articles

Business. In *World topics year book*, ed. by Sentman and Trier, Tangley Oaks Educational Center, Lake Bluff, Illinois, pp. 86-95.

Education: animal, vegetable, or mineral. *Journal of Risk and Insurance*, 36, 1:1-9. Channels of distribution in insurance. *Ibid.*, 5:583-95.

VAN ARSDELL, PAUL M., Professor and Head of Department

Articles

Managerial considerations on profitability of commercial banks. 1969 *Bank Management Symposium*, The Consolidated Reporting Company, Montclair, New Jersey, pp. 27-37.

Kenneth S. Carlston. *University of Illinois Law Forum*, 1:xiv-xv.

Bulletins and Technical Reports

Education in finance: final objectives and problems of disciplinary integration. Working Paper No. 24, ed. by Department of Business Administration, Virginia Polytechnic Institute, Blacksburg, Virginia, 26 pp.

DOCTORAL DISSERTATIONS

Shin, Tai S. (P. M. Van Arsdell, Adviser). A financial analysis of the airframe-turned aerospace industry.

Sprecher, Clarence R. (P. M. Van Arsdell, Adviser). Financing corporate mergers with convertible preferred stock, 1962-1967.

FOOD SCIENCE

ARGOUEDELIS, CHRISTOS J., Assistant Professor

Articles

With E. G. Perkins

Determination of double bond position in polyunsaturated fatty acids using combination gas chromatography mass spectrometry. *Lipids*, 4:619-21.

With L. T. Sennello

A gas chromatographic procedure for the simultaneous determination of pyridoxine, ascorbic acid, and nicotinamide in vitamin capsules and tablets. *Analytical Chemistry*, 41:171-73.

CSALLANY, A. SAARI, Research Associate Professor

Articles

With H. H. Draper

A simplified hemolysis test for vitamin E deficiency. *Journal of Nutrition*, 98:390-94.

Metabolism and function of vitamin E. American Institute of Nutrition Symposium on Recent Developments in the Fat-Soluble Vitamins, Atlantic City, New Jersey, April 15, 1969. *Federation Proceedings*, 28:1690-95.

With C. K. Chow, H. H. Draper

A method for the assay of free and esterified tocopherols. *Analytical Biochemistry*, 32: 81-90.

DRAPER, HAROLD H., Professor

Articles

The tocopherols. In *International encyclopaedia of nutrition*, vol. 9, fat-soluble vitamins, ed. by R. A. Morton, Pergamon Press, London.

Vitamin E in human nutrition. *Proceedings of a Symposium on the Biochemistry, Assay and Nutritional Value of Vitamin E*. Association of Vitamin Chemists, Chicago, March 27.

With G. V. G. Krishna Rao

Age-related changes in the bones of adult mice. *Journal of Gerontology*, 24:149-51.

With A. Saari Csallany

A simplified hemolysis test for vitamin E deficiency. *Journal of Nutrition*, 98:390-94.

Metabolism and function of Vitamin E. American Institute of Nutrition Symposium on Recent Developments in the Fat-Soluble Vitamins, Atlantic City, New Jersey, April 15, 1969. *Federation Proceedings*, 28: 1690-95.

With C. K. Chow, A. Saari Csallany

A method for the assay of free and esterified tocopherols. *Analytical Biochemistry*, 32: 81-90.

With C. K. Chow

Effect of artificial drying on the tocopherols and fatty acids of corn. *Journal of Agricultural and Food Chemistry*, 17:1316-17.

HASKELL, BETTY E., Associate Professor

Articles

With J. M. Shiflett

Effect of vitamin B₆ deficiency on leucine transaminase activity in chick tissue. *Journal of Nutrition*, 98, 4:420-26.

HETRICK, JOHN H., Professor

Articles

Imitation dairy products — past, present and future. *Journal of the American Oil Chemists' Society*, 2:58A; 50A; 62A.

JOHNSTON, PATRICIA V., Assistant Professor

Articles

With E. G. Perkins

Pyrolysis-gas chromatography of phosphoglycerides: a mass spectral study of the products. *Lipids*, 4:301-03.

With B. I. Roots

Plasmalogens of the nervous system and environmental temperature. *Comparative Biochemistry and Physiology*, 26:553-60. 1968.

With J. Cremer, B. I. Roots, A. J. Trevor

Heterogeneity of brain fractions containing neuronal and glial cells. *Journal of Neurochemistry*, 15:1361-70.

KUMMEROW, FRED A., Professor

Articles

With D. S. Sgoutas

The influences of the major fatty acids in milk fat on serum cholesterol levels. In *Symposium: dairy lipids and lipid metabolism*, The Avi Publishing Company, Westport, Connecticut, pp. 116-34.

Cis-Trans isomerization of unsaturated fatty acid methyl esters without double bond migration. *Lipids*, 4:283-87.

With Miram Raz, Toshiro Nishida

Various factors affecting cholesterol esterification in plasma lipoproteins with lecithin-cholesterol acyltransferase. *Biochimica et Biophysica Acta*, 176, 3:591-99.

NARAYAN, K. ANANTH, Assistant Professor

Articles

Human and rat serum proteins, lipoproteins, ammonium persulfate, gel concentration and disc electrophoresis. *Microchemical Journal*, 14, 2:335-43.

With G. E. S. Mary, H. P. Friedman

Disc electrophoresis of subclasses of human serum low density lipoproteins. *Ibid.*, pp. 235-41.

NELSON, ALVIN I., Professor

Articles

With R. Toledo, M. P. Steinberg

Heat of respiration of fresh produce as affected by controlled atmosphere. *Journal of Food Science*, 34, 3:261-64.

With D. L. Preonas, Z. John Ordal,

M. P. Steinberg, L. S. Wei
Growth of *Staphylococcus aureus* MF 31 on the top and cut surfaces of southern custard pies. *Applied Microbiology*, 18, 1:68-75.

With K. H. Udani, M. P. Steinberg

Rate of moisture adsorption by wheat flour and its relation to physical, chemical and baking characteristics. *Food Technology*, 22, 12:1561-64.

With E. Epstein, M. P. Steinberg, L. S. Wei

Adhesion of dried apple slices. *Ibid.*, 23, 12:1593-96.

With F. Weber, M. P. Steinberg, L. S. Wei

Processing and preserving horseradish. I. Frozen and refrigerated storage stability. *Ibid.*, 9:1207-10.

Processing and preserving horseradish. II. Use of blanched root. *Ibid.*, pp. 1211-12.

NISHIDA, TOSHIRO, Associate Professor

Articles

With Uri Cogan

Effect of various short and long chain fatty acids on the dextran sulfate-low density lipoprotein interaction. *Biochimica et Biophysica Acta*, 187, 3:444-46.

With Aniram Raz, F. A. Kummerow

Various factors affecting cholesterol esterification in plasma lipoproteins by lecithin-cholesterol acyltransferase. *Ibid.*, 176, 3: 591-99.

ORDAL, Z. JOHN, Professor

Articles

The prevention and control of microbial food spoilage. *Developments in Industrial Microbiology*, 10, 1:101-11.

With R. D. Haight

Thermally induced degradation of staphylococcal ribosomes. *Canadian Journal of Microbiology*, 15, 1:15-19.

With E. J. Hsu

Sporulation of *Clostridium thermosaccharolyticum* under conditions of restricted growth. *Journal of Bacteriology*, 97, 3: 1511-12.

Sporulation of *Clostridium thermosaccharolyticum*. *Applied Microbiology*, 18, 5: 958-60.

With Leslie Bluhm

Effect of sublethal heat on the metabolic activity of *Staphylococcus aureus*. *Journal of Bacteriology*, 97, 1:140-50.

With D. L. Preonas, A. I. Nelson,

M. P. Steinberg, L. S. Wei
Growth of *Staphylococcus aureus* MF 31 on the top and cut surfaces of southern custard pies. *Applied Microbiology*, 18, 1: 68-75.

With Carol Clark

Thermal injury and recovery of *Salmonella typhimurium* and its effect enumeration procedures. *Ibid.*, 3:332-36.

PERKINS, EDWARD G., Associate Professor

Articles

Phospholipids of unhopped wort. *Journal of the Institute of Brewing*, 75:205-06.

With P. R. Witt, Jr.

Wort soluble lipids of brewery adjuncts. *Proceedings of the American Society of Brewing Chemists*, pp. 145-49. 1968.

With J. Tobias

Mass spectrometry makes research easier. *Illinois Research*, 10, 4:14-15. 1968.

With C. J. Arqoudelis

Determination of double bond position in polyunsaturated fatty acids using combination gas chromatography mass spectrometry. *Lipids*, 4, 6:619-21.

With Patricia V. Johnston

Pyrolysis-gas chromatography of phosphoglycerides: a mass spectral study of the products. *Ibid.*, 4:301-03.

With M. K. Govind Rao, Nancy Risser

The incorporation of ricinoleic acid into rat lymph lipids. *Proceedings of the Society of Experimental Biology and Medicine*, 131, 4:1369-72.

With S. S. Khanna

Application of gas-liquid chromatography—Mass spectrometry to the analysis of natural products. *Sesbania grandiflora* (L) extracts. *Journal of Agricultural and Food Chemistry*, 17, 6:1335-36.

With A. L. Dolendo, J. C. Means, J. Tobias

Synthesis and mass spectral properties of a triglyceride precursor of α -dodecalactone. *Journal of Dairy Science*, 52, 1:21-26.

PORTER, VERNON L., Instructor

Bulletins and Technical Reports

With Geraldine E. Acker

Homemade ice cream, sherbert and ices. University of Illinois College of Agricultural Experiment Station, Circular 1002, Urbana, 11 pp.

SGOUTAS, DEMETRIUS, Assistant Professor

Articles

With F. A. Kummerow

The influences of the major fatty acids in milk fat on serum cholesterol levels. *Symposium: Dairy Lipids and Lipid Metabolism*. The Avi Publishing Company, Westport, Connecticut, pp. 116-34.

Cis-Trans isomerization of unsaturated fatty acid methyl esters without double bond migration. *Lipids*, 4, 4:283-87.

With Holly Sanders, Esther M. Yang

Tritioboration and synthesis of tritium-labeled polyunsaturated fatty acids. *Journal of Lipid Research*, 10, 6:642-45.

STEINBERG, MARVIN P., Professor

Articles

With R. Toledo, A. I. Nelson

Heat of respiration of fresh produce as affected by controlled atmosphere. *Journal of Food Science*, 34, 3:261-64.

With D. L. Preonas, A. I. Nelson,

Z. John Ordal, L. S. Wei
Growth of *Staphylococcus aureus* MF 31 on the top and cut surfaces of southern custard pies. *Applied Microbiology*, 18, 1:68-75.

With K. H. Udani, A. I. Nelson

Rate of moisture adsorption by wheat flour and its relation to physical, chemical and

baking characteristics. *Food Technology*, 22, 12:1561-64.

With E. Epstein, A. I. Nelson, L. S. Wei
Adhesion of dried apple slices. *Ibid.*, 23, 12: 1593-96.

With F. Weber, A. I. Nelson, L. S. Wei
Processing and preserving horseradish. I. Frozen and refrigerated storage stability. *Ibid.*, 9:1207-10.
Processing and preserving horseradish. II. Use of blanched root. *Ibid.*, pp. 1211-12.

TOBIAS, JOSEPH, Professor

Articles

Flavor of milk and dairy products. *Journal of Dairy Science*, 52, 6:810.

With A. L. Dolendo, J. C. Means, E. G. Perkins
Synthesis and mass spectral properties of a triglyceride precursor of α -dodecalactone. *Ibid.*, 1:21-26.

With M. M. A. Al-Shabibi, R. E. Brown
Uptake of labeled long chain fatty acids *in vivo* and *in vitro* by different phospholipids in milk. *Ibid.*, 2:146-51.

With E. L. Thomas, F. Shipe, W. L. Dunkley, W. L. Slatter
Suggested topical outline for a course in organoleptic evaluation of foods. *Ibid.*, 6: 841-43.

With E. G. Perkins

Mass spectrometry makes research easier. *Illinois Research*, 10, 4:14-15. 1968.

Reviews

Basic Principles of Sensory Evaluation (various authors), Manual on Sensory Testing Methods (various authors), Correlation of Subjective-Objective Methods in the Study of Odors and Taste (various authors). American Society for Testing and Materials, Special Technical Publication # 433, 434, 440. *Journal of Dairy Science*, 52, 6:Cover 3.

TUCKEY, STEWART L., Professor

Articles

With J. A. Ohren

Relation of flavor development in cheddar cheese to chemical changes in the fat of the cheese. *Ibid.*, 52, 5:598-607.

WEI, LUN-SHIN, Associate Professor

Articles

With D. L. Preonas, Z. J. Ordal, M. P. Steinberg

Growth of *Staphylococcus aureus* MF 31 on the top and cut surfaces of southern custard pies. *Applied Microbiology*, 18, 1: 68-75.

With E. Epstein, A. I. Nelson, M. P. Steinberg
Adhesion of dried apple slices. *Food Technology*, 23, 12:1593-96.

With F. Weber, A. I. Nelson, M. P. Steinberg
Processing and preserving horseradish. I. Frozen and refrigerated storage stability. *Ibid.*, 9:1207-10.

Processing and preserving horseradish. II. Use of blanched root. *Ibid.*, pp. 1211-12.

WHITNEY, ROBERT McL., Professor

Articles

With N. R. Sundararajan

Binding of thallosin ion by casein. *Journal of Dairy Science*, 52, 9:1445-48.

WILSON, HAROLD K., Associate Professor

Articles

Controlling oxidized flavors in high-fat sterilized creams. *Ibid.*, 8:1229-32.

WITTER, LLOYD D., Professor

Articles

With J. M. Berry, Deborah A. McNeill

Effect of delays in pour plating on bacterial counts. *Ibid.*, 9:1456-57.

With S. A. Palumbo

Influence of temperature on glucose utilization by *Pseudomonas fluorescens*. *Applied Microbiology*, 18, 2:137-41.

Influence of temperature on the pathways of glucose catabolism in *Pseudomonas fluorescens*. *Canadian Journal of Microbiology*, 15, 9:995-1000.

DOCTORAL DISSERTATIONS

Anfinsen, Jon R. (E. G. Perkins, Adviser), Oxidation of synthetic triglycerides; characterization and identification of the nonvolatile oxidation products of triolein.

Chasin, David G. (E. G. Perkins, Adviser), Studies on the chemical synthesis and mass spectra of higher branched chain saturated, unsaturated, and dicarboxylic acids.

Epstein, Edward (A. I. Nelson, Adviser), Adhesion of dried apple slices.

Hastings, Carl W. (A. I. Nelson, Adviser), The microbiology of preparation and dehydration of potato dice.

Muesing, Richard A. (T. Nishida, Adviser), A study of the nature of the interaction of 1-anilino-naphthalene-8-sulfonate with low and high density human plasma lipoproteins.

Palumbo, Mary S. (R. M. Whitney, Adviser), A method for the determination of the lipid content of milk fat-globule membrane fractions.

Preonas, Demetri L. (A. I. Nelson, Adviser), Modification of baked cream pie formulations to inhibit surface growth of *Staphylococcus aureus* MF 31 without refrigeration.

Sennello, Lawrence T. (F. A. Kummerow, Adviser), Synthesis of some esters of pyridoxol and pyridoxal, and gas-liquid chromatography of Vitamin B₆ trimethylsilyl ethers.

Wantland, Larry R. (E. G. Perkins, Adviser), Oxidation of synthetic triglycerides: characterization of the nonvolatile oxidation products of 1-linoleyl-2,3-distearin.

FORESTRY

BOGGESE, WILLIAM R., Professor and Head of Department

Articles

With A. R. Gilmore

Growth and yield from row thinning in a shortleaf pine plantation in southern Illinois. *Illinois Agricultural Experiment Station Forestry, Note 126*, 3 pp.

With A. R. Gilmore, R. A. Young

Underplanting yellow-poplar in a shortleaf pine plantation in southern Illinois. *Ibid.*, Note 125, 4 pp.

Reviews

Natural areas in Indiana, by A. A. Lindsey, D. V. Schmetz, S. A. Nichols. *Journal of Forestry*, 67:833.

The Sonoran Desert, by Roger Dunbier. *Water Resources Bulletin*, 5, 3:66-67.

Deserts of the world, ed. by W. G. McGinnis, B. J. Goldman, Patricia Paylore. *Ibid.*, p. 67.

FISHER, RICHARD F., Assistant Professor

Articles

With E. L. Stone

An effect of conifers on available soil nitrogen. *Plant and Soil*, 30:134-38.

Increased availability of nitrogen and phosphorus in the root zone of conifers. *Soil Science Society of America Proceedings*, 33:955-61.

FOX, HOWARD W., Assistant Professor

Articles

With R. G. Rennels

Chemical control of the pales weevil in an Illinois Christmas tree plantation. *Journal of Forestry*, 67:310-11.

GILMORE, ALVAN R., Associate Professor

Articles

Soil moisture stress and tracheid length in loblolly pine. *Proceedings Tenth Southern Conference on Forest Tree Improvement*, Houston, Texas, pp. 205-07.

Residual soil fertility and growth of planted cottonwood on upland soils in southern Illinois. *Illinois State Academy of Science*, 62:124-27.

With W. R. Boggess

Growth and yield from row thinning in a shortleaf pine plantation in southern Illinois. *Illinois Agricultural Experiment Station Forestry*, Note 126, 3 pp.

With W. R. Boggess, R. A. Young

Underplanting yellow-poplar in a shortleaf pine plantation in southern Illinois. *Ibid.*, 125, 4 pp.

GUIHER, JOHN K., Assistant Professor

Articles

Extraction of cambium samples from living trees. *Forest Products Journal*, 19, 3:59-60.

HOLLAND, I. IRVING, Professor

Bulletins and Technical Reports

With W. R. Bentley

Furniture manufacturing and wood use in the North Central Region. North Central Regional Research Publication 193. *Illinois Agricultural Experiment Station, Bulletin* 734, 70 pp.

RENNELS, ROBERT G., Associate Professor

Articles

A look at farm forestry course offerings. *Journal of Forestry*, 67:809.

The forest insect situation in Illinois in 1968. *Illinois Agricultural Experiment Station Forestry*, Note 124, 3 pp.

With H. W. Fox

Chemical control of the pales weevil in an Illinois Christmas tree plantation. *Journal of Forestry*, 67:310-11.

WALTERS, CHARLES S., Professor

Articles

Life of fence posts is prolonged by new method of treatment. *Illinois Research*, 11, 4:15.

The crosstie peddler: salesman of knowledge. *Crosstie Bulletin*, 50, 12:69-73.

With K. V. Seidel

Selecting wood furniture. *Illinois Research*, 1, 2:16-17.

With J. A. Whittington

Withdrawal loads for screws in soft maple and particleboard. *Forest Products Journal*, 19, 3:39-42.

YOUNG, ROBERT A., Associate Forester

Articles

With W. R. Boggess, A. R. Gilmore

Underplanting yellow-poplar in a shortleaf pine plantation in southern Illinois. *Illinois Agricultural Experiment Station Forestry*, Note 125, 4 pp.

With G. H. Fechner

Administrative problems in forestry. *Journal of Forestry*, 67:100-03.

FRENCH

ALDRIDGE, A. OWEN, Professor

See Comparative Literature.

BARRETTE, PAUL E., Associate Professor

Books

With Monique Fol

Un certain style ou un style certain? Introduction à l'étude du style français. Oxford University Press, New York, 351 pp.

With T. Braun

First French, le français non sans peine (rev. ed.). Scott, Foresman and Co., Glenview, Illinois, 544 pp.

BOWEN, BARBARA C., Associate Professor

Reviews

Les origines de la satire anti-bourgeoise en France. Moyen Age-XVI^e, by Jean V. Alter. *Modern Language Review*, 64: 163-65.

La langue française au seizième siècle. Etude suivie de textes, by Peter Rickard. *Ibid.*, pp. 421-22.

Estienne Pasquier: Lettres historiques pour les années 1556-1594, published by D. Thickett. *Ibid.*, pp. 423-24.

DE LEY, HERBERT C., Associate Professor

Reviews

Les "additions" de Saint-Simon . . . (and) l'optique de Saint-Simon . . ., by Yves Coirault. *Modern Language Notes*, 83: 939-40.

Les maîtres de la belle époque, by J. P. Crespelle. *French Review*, 43:159-61.

JOST, FRANÇOIS, Professor

See Comparative Literature.

KNUDSON, CHARLES A., Professor

Articles

La brogne. In *Mélanges offerts à Rita Lejeune*, Duculot, Gembloux, Belgium, vol. 2: 1625-35.

Serments téméraires et gabs: notes sur un thème littéraire. *Studia Romanica*, 14: 254-60.

Le thème de la princesse sarrasine dans *La Prise d'Orange*. *Romance Philology*, 22, 4:449-62.

KOLB, PHILIP, Professor

Articles

Proust and his publishers. In *Editor, author and publisher. Papers given at the editorial conference, University of Toronto, November 1968*, ed. by Wm. J. Howard, University of Toronto Press, Toronto, pp. 88-95.

Robert de Montesquiou à Marcel Proust. *Bulletin de la société des amis de Marcel Proust et des amis de Combray*, 19:793-98.

MAINOUS, BRUCE H., Professor and Head of Department

Books

Basic French, an oral approach (2nd ed.). Charles Scribner's Sons, New York, 395 pp. 1968.

With D. J. Nolan

Basic French, an oral approach, workbook and laboratory manual. Charles Scribner's Sons, New York, 245 pp. 1968.

NELSON, ROBERT J., Professor

Books

Immanence and transcendence: the theater of Jean Rotrou (1609-1650). Ohio State University Press, Columbus, 245 pp.

NOLAN, DONALD J., Instructor

Books

With B. H. Mainous

Basic French, an oral approach, workbook and laboratory manual. Charles Scribner's Sons, New York, 245 pp. 1968.

PRICE, LARKIN B., Assistant Professor

Articles

Textes de Marcel Proust: trois fragments sacrifiés et deux portraits (1892-1895), présentés et annotés par Larkin B. Price (avec un facsimilé). *Bulletin de la Société des Amis de Marcel Proust et des Amis de Combray*, 19:799-805.

Reviews

Marcel Proust, ou le complexe d'Argus, by Louis Bolle. *French Review*, 42, 3:461-62.

TALBOT, EMILE J., Assistant Professor

Articles

Considérations sur la définition stendhalienne du romantisme. *Stendhal-Club*, 11, 44: 327-36.

VELAN, YVES C., Professor

Articles

Vers Schlunegger. "Ecriture IV." *Cahiers de la Renaissance Vaudoise*, Lausanne, pp. 101-08. 1968.

Préface aux *Oeuvres Poétiques* de Jean-Pierre Schlunegger. Editions Rencontre, Lausanne, pp. 7-17. 1968.

L'envers du dessous, à propos du "Système de la Mode" de Roland Barthes. *Gazette Littéraire*, mars, 9 pp. 1968.

DOCTORAL DISSERTATIONS

Mall, James P. (V. Bowen, Adviser), *La Nouvelle Héloïse: Rousseau's fiction and the impossibility of Utopia*.

Mall, Rita S. (S. Gray, Adviser), *The self-conscious eye: an approach to the Journal and to the esthetics of Jules Renard*.

Shinall, Julia A. (F. Bassan, Adviser), *Lamartine's Raphael: a critical study*.

Vogely, Maxine A. (P. Kolb, Adviser), *Italy in the life and works of Marcel Proust*.

GENERAL ENGINEERING

DOBROVOLNY, JERRY S., Professor and Head of Department

Books Edited

Technical education for the seventies. A re-

port of the national clinic on technical education under the vocational education act of 1963. University of Illinois, Department of General Engineering, Urbana, 111 pages.

Articles

Science-based technical education in the American educational system. *Science Education as it Relates to Technical Education*, American Association for the Advancement of Science, Miscellaneous Publication, 69, 5:8-17.

What is technical education? *Industrial Arts and Vocational Education/Technical Education*, 58, 7:1-4.

Drafting technology versus machine design technology. *Ibid.*, 9:11-23.

HANNON, BRUCE M., Assistant Professor

Bulletins and Technical Reports

The corps out-engineered. *Sierra Club Bulletin*, 54, 8:8-12.

JEWETT, ROBERT A., Professor

Articles

Solving the puzzle of the first American structural rail-beam. *Technology and Culture*, 10, 3:371-91.

MALANY, LEGRAND L., Instructor

Bulletins and Technical Reports

A report developing a comprehensive state program of motorcycle driver's licensing. Highway Traffic Safety Center, University of Illinois, Urbana, 114 pp.

STREETER, HARRISON, Assistant Professor

Articles

A new instrument for measuring tactile sensitivity. *Psychophysiology*, 5, 4:446-48.

WOZNIAK, LOUIS, Assistant Professor

Bulletins and Technical Reports

With G. H. Felt

Representation of pump-turbine characteristics. *American Society of Mechanical Engineers*, Publication No. 69-FE-7.

GENERAL STUDIES

ROSEN, SIDNEY, Professor

Books

Wizard of the dome: R. Buckminster Fuller, designer for the future. Little and Brown, Boston, 189 pp.

Reviews

The double helix, by James D. Watson. *Journal of Research in Science Teaching*, 6, 2:200.

GENETICS

DOCTORAL DISSERTATIONS

Singh, Arjun (J. R. Laughnan, Adviser), *Mutation of the S cytoplasmic element for male sterility in maize*.

GEOGRAPHY

ALEXANDER, CHARLES S., Professor

Articles

Beach Ridges in Northeastern Tanzania. *The Geographical Review*, 59, January, pp. 104-22.

AUGELLI, JOHN P., Professor

Articles

Regional geography in revolution. *Journal of Geography*, 62, 68:69.

Bulletins and Technical Reports

With members and staff of Board of Foreign Scholarships

Toward mutual understanding. U.S. Government Printing Office, Washington, D.C., 80 pp.

Reviews

Plants, animals and man in the Outer Leeward Islands, by D. R. Harris. *The Professional Geographer*, 20:55.

FELLMANN, JEROME D., Professor

Articles

Land use and density patterns of the metropolitan area. *Journal of Geography*, 68, 5:262-66.

Reviews

The geography of economic activity, by Richard S. Thoman, Edgar C. Conklin, and Maurice H. Yeates. *The Professional Geographer*, 21, 1:61.

GARLAND, JOHN H., Professor

Reviews

The North Central United States, by Wallace E. Akin. *The Professional Geographer*, 21, 2:127.

The United States and World Resources, by Donald J. Patton. *Ibid.*

JAKLE, JOHN A., Assistant Professor

Articles

With J. O. Wheeler

The Dutch in Kalamazoo, Michigan: a study of spatial barriers to acculturation. *Tijdschrift voor Economische en Sociale Geografie*, 60, 4:249-54.

The changing residential structure of the Dutch population in Kalamazoo, Michigan. *Annals of the Association of American Geographers*, 59, 3:441-60.

Salt on the Ohio Valley frontier, 1770-1820. *Annals of the Association of American Geographers*, 59, 4:687-709.

NUNNALLY, NELSON R., Assistant Professor

Articles

Integrated landscape analysis with radar imagery. *Remote Sensing of Environment*, 1:1-6.

Bulletins and Technical Reports

Introduction to remote sensing: the physics of electromagnetic radiation. Association of American Geographers Commission on Remote Sensing, Johnson City, Tennessee, 39 pp.

ROEPKE, HOWARD G., Professor

Articles

The coming years. *The New York Times* (A.I.D.C. Supplement) CXVIII, 40, 640:13.

SHIMKIN, DEMITRI B., Professor

See Anthropology.

GEOLOGY

ANDERSON, THOMAS F., Assistant Professor

Articles

Self-diffusion of carbon and oxygen in cal-

cite by isotope exchange with carbon dioxide. *Journal of Geophysical Research*, 74, 15:3918-32.

CAROZZI, ALBERT V., Professor

Articles

Rudolf Erich Raspe and the Basalt Controversy. *Studies in Romanticism*, 8, 4:235-50.

Rudolf Erich Raspe (1737-1794) or the impossible scientific dream. *Stechert-Hafner Book News*, 24, 1:1-3.

De Maillet's Tellurism: an ultraneptunian theory of the earth. In *Toward a history of geology*, ed. by Cecil J. Schneer, Massachusetts Institute of Technology Press, Cambridge, pp. 80-99.

Apparent relationship between development of neomorphic calcite and environmental energy level in Chesterian (Viséan-Namurian) biocalcarentes, type area in Southwestern Illinois. In *Carbonate cements*, ed. by F. T. Mackenzie, Bermuda Biological Station for Research, Special Publication, 3:297-98.

CHAPMAN, CARLETON A., Professor

Articles

Oriented inclusions in granite—further evidence for floored magma chambers. *American Journal of Science*, 267:988-98.

COLLINSON, CHARLES W., Professor

Articles

Tribute to Robert H. Shaver, retiring co-editor, *Journal of Paleontology*. *Journal of Paleontology*, 43, 4:1074-75.

With D. L. Gross, J. A. Lineback,

W. A. White, N. J. Ayer, H. V. Leland

Preliminary stratigraphy of unconsolidated sediments from the southwestern part of Lake Michigan. *Illinois State Geological Survey Environmental Geology Note No. 30*, 20 pp.

Reviews

Silurian-Devonian rocks of Oklahoma and environs, ed. by Don Toomey. *American Association of Petroleum Geologists Bulletin* 53, 7:1538-39.

DONATH, FRED A., Professor and Head of Department

Articles

The development of kink bands in brittle anisotropic rock. In *Igneous and metamorphic geology*, ed. by L. H. Larsen, Geological Society of America Memoir 115, pp. 453-93.

Experimental study of kink band development in Martinsburg slate. In *Proceedings, conference on research in Tectonics*, ed. by A. J. Baer, D. K. Norris, Geological Survey Canada Paper 68-52, pp. 255-88.

EADES, JAMES L., Research Assistant Professor

Articles

With P. A. Sandberg

Scanning electron microscope study of development and distribution of pore space in calcium oxide. *Proceedings, Second Annual Scanning Electron Microscope Symposium*, pp. 381-88.

FRYE, JOHN C., Professor

Articles

Soils, terraces and pediments in Pleistocene stratigraphy. *Kansas Academy of Science, Transactions*, 71, 3:332-39.

Environmental geology. *The Professional Geologist*, 6, 3:6-7.

- Research and service of the Illinois State Geological Survey. Annual Report, Department of Registration and Education, State of Illinois, *Illinois State Geological Survey Reprint Series, 1969-F*, 24 pp.
- With H. D. Glass, J. P. Kempton, H. B. Willman
Glacial tills of northwestern Illinois. *Illinois State Geological Survey, Circular 437*, 45 pp.
- With H. B. Willman
High level glacial outwash in the Driftless Area of northwestern Illinois. *Ibid.*, Circular 440, 23 pp.
- With M. Elliott, L. Link, H. Risser
Present status and future projections of mineral and energy resources of Illinois. In *A Report of the Illinois Science Advisory Council: "The Natural Resources of Illinois,"* pp. 8-33.
- GRAF, DONALD L., Professor
Articles
Crystallographic tables for the rhombohedral carbonates: a correction. *American Mineralogist*, 54:325.
- GÜVEN, NECIP, Assistant Professor
Articles
Nature of the coordination polyhedra around M2 cations in pigeonite. *Contributions to Mineralogy and Petrology*, 24:268-74.
- HAY, WILLIAM WINN, Professor
Articles
Geology and archaeology of northern Cyrenaica, Libya. *Petroleum Exploration Society of Libya, Guidebook*, pp. 149-53.
- With P. Cepek, B. A. Masters, T. R. Worsley
Calcareous plankton in the Upper Cretaceous of Alabama. In *Facies changes in the Selma Group in Central and Eastern Alabama*, by J. C. Scott and others, Alabama Geological Society, 6th Annual Field Trip Guidebook, pp. 27-40.
- With D. S. Marszalek
Marine aquaria for paleontology. *Journal of Geological Education*, 16:159-63.
- With R. R. Schmidt
Calcareous nannofossils in the Pliocene of Italy. *Giornale di Geologia*, 35:153-61.
- On defining boundaries between the Paleocene, Eocene, and Oligocene. *Mémoires du Bureau de Recherche Géologique et Minières*, 69:197-200.
- Preliminary dating by fossil calcareous nannoplankton, deep sea drilling project, leg I. *Initial Reports, Deep Sea Drilling Project*, 1:388-91.
- With J. E. Boudreaux
Calcareous nannofossils in the Submarex cores, Nicaragua Rise, Caribbean Sea, Le Castella, Calabria; and the age of the Pliocene-Pleistocene boundary. *Giornale di Geologia*, 35:143-51.
- Calcareous nannoplankton and biostratigraphy of the late Pliocene-Pleistocene-Recent sediments in the Submarex cores. *Rivista Espanola de Micropaleontologia*, 1:249-92.
- With P. Cepek
Calcareous nannoplankton and biostratigraphic subdivision of the Upper Cretaceous. *Transactions, Gulf Coast Association of Geological Societies*, 19:323-36.
- With D. S. Marszalek, R. C. Wright
Function of the test in foraminifera. *Ibid.*, pp. 341-52.
- With H. P. Mohler
Paleocene-Eocene calcareous nannoplankton and high resolution biostratigraphy. *Proceedings, 1st International Conference on Planktonic Microfossils, Geneva, 1967*, E. J. Brill, Leiden, 2:250-53.
- HENDERSON, DONALD M., Professor
Articles
With D. M. Moore
Mineralogic stratigraphic marker in the White Pine group, eastern Nevada. *American Association of Petroleum Geologists Bulletin* 53:683-87.
- Reviews
An outline of crystal morphology, by A. C. Bishop. *Mineralogical Magazine*, 37:308-09.
The determination of crystal structures (3rd ed.), vol. 3. *The Crystalline State*, by H. Lipson, W. Cochran. *Ibid.*, pp. 309-10.
Elementary mineralogy, by B. Mason, L. G. Berry. *American Mineralogist*, 54: 1503-04.
- HOLDER, JON T., Assistant Professor
Articles
With F. Fanti, A. V. Granato
Viscous drag on dislocations in LiF and NaCl. *Journal of Acoustics Society of America*, 45:1356-66.
- With D. Gerlich, A. V. Granato
The effect of thermal neutron irradiation on the elastic moduli of LiF. *Physical Review*, 181:1220-27.
- With A. V. Granato
Thermodynamic properties of crystals containing imperfections. *Ibid.*, 182:729-41.
- KLEIN, GEORGE deV., Associate Professor
Articles
Deposition of Triassic sedimentary rocks in separate basins, eastern North America. *Geological Society of America Bulletin*, 80:1825-32.
- With J. A. Burger, J. E. Sanders
A field technique for making epoxy relief-peels in sandy sediments saturated with saltwater. *Journal of Sedimentary Petrology*, 39:338-41.
- LANGENHEIM, RALPH L., JR., Professor
Articles
With M. B. Lamport, J. K. Winter
Geology, stratigraphy and structure of the West Range, Lincoln County, Nevada. *Wyoming Geological Association Earth Science Bulletin*, Sept. 1969:27-36.
- With R. W. Pierce
Ultrastructure in *Palmatolepis* sp. and *Polygnathus* sp. *Geological Society of America Bulletin*, 80, 7:1397-1400.
- SANDBERG, PHILIP A., Associate Professor
Articles
Appendages and family placement of the ostracod genus *Pellucistoma*. *Journal of Paleontology*, 43, 5:1174-78.
- With P. L. Plusquellec
Structure and polymorphism of normal pores in cytheracean Ostracoda (Crustacea). *Ibid.*, 2:517-21.
Some genera of the ostracod subfamily Campylocytherinae. *Micropaleontology*, 15, 4:427-80; 10 pls.
- With J. L. Eades
Scanning electron microscope study of development and distribution of pore space in

calcium oxide. *Proceedings, Second Annual Scanning Electron Microscope Symposium*, pp. 381-88.

WANLESS, HAROLD R., Professor Emeritus

Articles

Marine and non-marine facies of the upper carboniferous of North America. *Compte Rendu 6e Congrès Internationale Stratigraphie Géologie Carbonifère, Sheffield 1967*, 1:293-336.

Eustatic shifts in sea level during the deposition of late Paleozoic sediments in the central United States. *West Texas Geological Society Symposium on Cyclic Sedimentation, 1969*:41-54.

With J. R. Baroffio, P. C. Trescott

Conditions of deposition of Pennsylvania Coal Beds. *Environments of Coal Deposition, Geological Society of America Special Paper 114*: pp. 103-42.

With M. T. El-Ashry

Photo interpretation of shoreline changes between Capes Hatteras and Fear (North Carolina). *Marine Geology*, 6:347-79. 1968.

Reviews

Cyclic Sedimentation, by P. M. D. Duff, A. Hallam, E. K. Walton. *Paleogeography, Paleoclimatology, Paleogeology*, 5, 3:316-18. 1968.

Age and Nature of the Circum-Pacific Orogenesis, Elsevier Publishing Company, Amsterdam, Tectonophysics, Special Issue, vol. 4. *Ibid.*, 5:176-78.

WHITE, GEORGE W., Research Professor

Books Edited

The Monthly American Journal of Geology and Natural Science, conducted by G. W. Featherstonhaugh. *Contributions to the History of Geology series, vol. 4*. Hafner Publishing Company, Inc., New York, 576 pp. (Facsimile of 1831-32 edition, with Introduction).

The American Mineralogical Journal, conducted by Archibald Bruce, M.D., introduction by John C. Greene. *Ibid.*, vol. 1. 270 pp. (Facsimile of 1814 edition, with Foreword.)

Articles

Pleistocene deposits of the north-western Allegheny Plateau, U.S.A. *Quarterly Journal of the Geological Society of London*, 124:131-51.

Early geological observations in the American Midwest. In *Toward a history of geology*, ed. by C. J. Schnecr, Massachusetts Institute of Technology Press, Cambridge, pp. 415-25.

With S. M. Totten, D. L. Gross

Pleistocene stratigraphy of northwestern Pennsylvania. *Pennsylvania Geological Survey Bulletin G 55*, 88 pp., 42 figs.

WOOD, DENNIS S., Assistant Professor

Articles

The base and correlation of the Cambrian rocks of North Wales. In *The Pre-Cambrian and Lower Palaeozoic rocks of Wales*, ed. by Cardiff, University of Wales Press, pp. 47-66.

DOCTORAL DISSERTATIONS

Boyer, Paul R. (A. F. Richards, Adviser), Structure of the continental margin of Brazil Natal to Rio de Janeiro.

Butler, Louis W., II (A. F. Richards, Adviser), Structure of the continental margin, Southern Brazil and Uruguay.

De Villiers, Johan P. R. (D. M. Henderson, Adviser), The crystal structures of aragonite, strontianite, and witherite.

Ealey, Peter J. (A. F. Richards, Adviser), Marine geology of North Brazil: a reconnaissance study.

Gross, David L. (G. W. White, Adviser), Glacial geology of Kane County, Illinois.

Heigold, Paul C. (R. L. Langenheim, Adviser), Theoretical analysis of regional groundwater flow in the Havana region, Illinois.

Henderson, Gerald V. (F. M. Wahl, Adviser), The origin of pyrophyllite-rectorite in shales of North Central Utah.

Marszalek, Donald S. (W. W. Hay, Adviser), Aspects of chamber formation by *Archias Angulatus*, a foraminifer.

McComas, Murray R. (G. W. White, Adviser), Pleistocene geology and hydrogeology of the Middle Illinois Valley.

Moran, Stephen R. (G. W. White, Adviser), Geology of the Hudson Bay Area, Saskatchewan.

North, William G. (R. L. Langenheim, Adviser), The stratigraphy of the formations at and beneath the Middle-Upper Devonian boundary in Southern Illinois.

Pierce, Robert W. (R. L. Langenheim, Adviser), Ultrastructure and biostratigraphy of the conodonts of the Monte Cristo Group, Arrow Canyon Range, Clark County, Nevada.

Pride, Douglas E. (A. F. Hagner, Adviser), Geochemical and petrologic investigation of the Seiminoe, Atlantic City and Copper Mountain Iron Formation deposits, Wyoming.

Roche, James E. (A. V. Carozzi, Adviser), Petrography and environmental study of Middle Devonian reefs, Michigan.

GERMANIC LANGUAGES AND LITERATURES

BURKHARD, MARIANNE, Assistant Professor

Books Edited

Gottfried Keller. Vom Maler zum Dichter. Texte und Bilder von Gottfried Keller, ausgewählt und eingeleitet von Marianne Burkhard. 35. Zürcher Druck der Offizien Gebr. Fretz AG., Zürich, 88 pp.

Reviews

Karl Gutzdow und seine Zeit by Eitel Wolf Dobert. *Journal of English and Germanic Philology*, 68, 4:747-49.

H. Hofmannsthal und Oesterreich by Frederick Ritter, and Romantik und Manierismus by Marianne Thalmann. *Schweizer Monatshefte*, 49, 8:794-96.

FOLTER, ROLAND, Assistant Professor

Articles

Bibliography and indexes. In Curt von Faber du Faur. *German Baroque Literature, II*, Yale University Press, New Haven, pp. 170-85.

FREY, JOHN R., Professor

Articles

Blick und Auge in Thomas Manns Erzählkunst. *Jahrbuch der Deutschen Schillergesellschaft*, 13:454-81.

Anglo-German Literary Bibliography for 1968. *Journal of English and Germanic Philology*, 68:457-64.

Reviews

Schiller und die französische klassische Tra-

- gödie by Peter A. Bloch. *Yearbook of Comparative and General Literature*, 18:91-93.
 Schiller by Friedrich Burschell. *Germanistik*, 10:839-40.
 Schiller und die jungen Dichter by Lieselotte Blumenthal. *Ibid.*, p. 839.

GERLACH, U. HENRY, Assistant Professor

Reviews

- Sprich deutsch wie ein deutscher, by Günther Thaer. *German Quarterly*, 42, 2:292-93.

GRAY, CLAYTON, JR., Assistant Professor

Book Reviews

- Medieval German Lyric Verse. In English translation by J. W. Thomas. *Journal of English and Germanic Philology*, 68, 4: 742-43.

HAILE, HARRY G., Professor and Head of Department

Articles

- Can scholarly articles in language and literature be justified? *Journal of General Education*, 21, 1:40-46.

Reviews

- Der Streit un den Urfaust, by Valters Nollendorfs. *Modern Language Notes*, 84, 120.3: 485.

KNUST, HERBERT, Associate Professor

Articles

- Literature in the Foreign Language Classroom. *Illinois Journal of Education*, 60, 7:70-74.

MARCHAND, JAMES W., Professor

Articles

- "Gotisch," Kurzer Grundriss der germanischen Philologie bis 1500, Berlin: Walter de Gruyter, 1969, pp. 94-122.

Reviews

- Europas christliche Literatur von 500 bis 1500 by Gisbert Kranz. *Journal of English and Germanic Philology*, 68:494-96.

McGLATHERY, JAMES M., Assistant Professor

Articles

- Commentary on E. T. A. Hoffmann's Rat Krespel. In *A reader in German literature*, ed. by Spaethling and Weber, Oxford Press, New York, pp. 41-43.

Reviews

- Heinrich von Kleist, a study in tragedy and anxiety, by John Gearey. *Journal of English and Germanic Philology*, 68:136-38.

MITCHELL, P. M., Professor and Acting Head of Department

Books

- A Bibliography of 17th Century German Imprints in Denmark and the Duchies of Schleswig-Holstein. I-II, Lawrence: University of Kansas Libraries. Pp. XIX, 748, 4 plates.

Articles

- "Gakusha to toshokan." *Dai 1-kkai Nichi-Bei daigaku toshokan kaigi*, 2:24-49.

Reviews

- Hans Bekker-Nielsen, old Norse-Icelandic studies. A select bibliography. *General Linguistics*, 8, 2:133-34.

RAUCH, IRMENGARD, Associate Professor

Articles

- The Heliand Versus 5-7 again. *Folia Linguistica*, 2, 1/2:39-47.

Reviews

- The diction of the Anglo-Saxon Metrical Psalms, by Robert E. Diamond. *Linguistics*, 45:76-78.

- Kurzgefasste erklärende Satzkunde des Neuhochdeutschen, by Moritz Regula. *Journal of English and Germanic Philology*, 68, 3: 468-71.

SCHIER, RUDOLF DIRK, Associate Professor

Reviews

- Klang und Bild in den Dichtungen Georg Traills by Heinz Wetzel. *Journal of English and Germanic Philology*, 68, 2:359-60.

SJÖGREN, CHRISTINE O., Visiting Professor

Articles

- The monstrous painting in Stifter's *Der Nachsommer*. *Journal of English and Germanic Philology*, 68, 1:92-99.

Reviews

- Adalbert Stifter im Urteil seiner Zeit: Festgabe zum 28. Jänner 1968 by Moriz Enzinger. *Ibid.*, 2:349-51.

STEGEMEIER, HENRI, Professor

Reviews

- Deutsche Volkslieder, Balladen, V, by E. Seemann, R. W. Brednich, W. Suppan, W. Heiske. *Journal of English and Germanic Philology*, 68, pp. 751-54.

- European Folk Ballads, by E. Seemann, D. Strömbäck, B. R. Jonsson. *Ibid.*, pp. 153-55.

WEARINGA, JUW FON, Assistant Professor

Reviews

- De Fryske literatuer 1945-1967, by Jo Smit. *Books Abroad*, 43, 1:120-21.

- De gouden swiipe, by Abe Brouwer. *Ibid.*, 3: 430.

- Im memoriam, by D. A. Tamminga. *Ibid.*, 430-31.

- Beiträge zur Mundartkunde des Nordobersächsischen (östlich der Elbe) by Wilfried Seibicke. *Journal of English and Germanic Philology*, 68, 2:328-29.

DOCTORAL DISSERTATIONS

- Bell, Robert F. (E. A. Philippon, Adviser), *Critical studies in the Son-undt Feyrtags Sonnete* of Andreas Gryphius.

GOVERNMENT AND PUBLIC AFFAIRS

BORDUA, DAVID, Professor.

See Sociology.

CORNELIUS, JANET, Research Assistant

Bulletins and Technical Reports

- A history of constitution making in Illinois. Prepared for the Illinois Constitution Study Commission, Institute of Government and Public Affairs, Urbana, 123 pp.

FISHER, GLENN W., Professor

Books

- Taxes and politics: a study of Illinois public finance. University of Illinois Press, Urbana, 332 pp.

Articles

- The changing structure of Illinois taxes. *Illinois Business Review*, 2, 8:6-8.

Reviews

- Spending in the American states, by Ira Sharkansky. *Journal of Politics*, 31:848-50.

Bulletins and Technical Reports*With Ann H. Elder*

An attempt to amend the Illinois constitution: a study in taxes and politics. Institute of Government and Public Affairs, Urbana, 114 pp.

GOVE, SAMUEL K., Professor and Director

Articles

An ombudsman for state government. *Yearbook 1969, National Conference of State Legislative Leaders*, 4:31-33.

With Susan Welch

The influence of state constitutional conventions on the future of higher education. *Educational Record*, 50, 2:206-12.

Bulletins and Technical Reports*With R. J. Carlson*

The legislature: issues for the Illinois constitutional convention. Constitution Research Group, Springfield, Illinois, 24 pp.

KITSOS, THOMAS R., Research Associate

Bulletins and Technical Reports*With J. P. Pisciotte*

A guide to Illinois constitutional revision: the 1969 constitutional convention. Prepared for the Illinois Constitution Study Commission, Institute of Government and Public Affairs, Urbana, 46 pp.

MERANTO, PHILIP J., Assistant Professor

Articles

Metropolitanization: implications for state-local finance. In *Illinois state and local finance*, ed. by Glenn W. Fisher, Institute of Government and Public Affairs, Urbana, pp. 13-22.

With L. H. Gold

Public attitudes on the Kerner Commission findings: the case of Illinois. *Illinois Government*, 31, 6 pp.

Reviews

Triumph in a white suburb, by Reginald G. Damerall and the politics of school desegregation, by Robert L. Crain. *Education and Urban Society*, 2:231-36.

MONYPENNY, PHILLIP, Professor

See Political Science.

MURRAY, MICHAEL A., Assistant Professor

Bulletins and Technical Reports

Establishing a department of community affairs in Illinois. Commission papers of the Institute of Government and Public Affairs, Urbana, 24 pp.

PISCIOTTE, JOSEPH P., Assistant Professor

Articles

How Illinois did it. *National Civic Review*, 58, 7:291-96.

Bulletins and Technical Reports*With T. R. Kitsos*

A guide to Illinois constitutional revision: the 1969 constitutional convention. Prepared for the Illinois Constitution Study Commission, Institute of Government and Public Affairs, Urbana, 46 pp.

WATSON, JO ANNA M., Research Assistant

Articles

Scottish home rule: a referendum. *Scottish Studies*, Fall, pp. 12-19.

GRADUATE COLLEGE

ALPERT, DANIEL, Dean of the Graduate College and Professor of Physics

Articles

Applied science and engineering in the university. In *The interaction of science and technology*, ed. by W. D. Compton, University of Illinois Press, Urbana, pp. 79-94.

HEALTH AND SAFETY EDUCATION

CRESWELL, WILLIAM H., JR., Professor

Articles

With W. J. Huffman, D. B. Stone, D. J. Merki, I. Newman

University of Illinois anti-smoking education study. *Illinois Journal of Education*, 60, 3:27-37.

FLORIO, AURELIO E., Professor

Books

Safety education (rev. ed.). McGraw-Hill Book Co., Inc., New York, 459 pp.

Articles

Promoting safe living in school. In *Healthful school environment* (rev. ed.), ed. by National Education Association, Washington, D.C., and American Medical Association, Chicago, pp. 97-120.

Recent trends in secondary school safety. *National Safety Congress Transactions*, 23: 126-28.

Bulletins and Technical Reports*With Others*

A report developing a comprehensive state program of motorcycle driver's licensing. Research report No. 3. Highway Traffic Safety Center, University of Illinois, Urbana, 114 pp.

HOYMAN, HOWARD S., Professor

Articles

Our most explosive sex education issue: birth control. *The Journal of School Health*, 39, 7:458-70.

An ecologic model of health and disease. *Phi Kappa Phi Journal*, 49, 4:54-61.

Should we teach about birth control in high school? *The Education Digest*, 34, 6:20-23.

Should birth control be taught? *Ibid.*, 35, 4:28-30.

HUFFMAN, WARREN J., Professor

Articles

Safety and liability. *Annual Safety Education Review*, 8:15-27.

With W. H. Creswell, D. B. Stone, D. J. Merki, I. Newman

University of Illinois anti-smoking education study. *Illinois Journal of Education*, 60, 3:27-37.

With R. W. Seehafer, M. D. Kinzie

Effects of a low level blood-alcohol concentration on psychophysiological and personality measures under controlled driving conditions (part II). *Illinois High School and College Driver Education Association Quarterly Journal*, 3:5-7.

Reviews

Law of extracurricular activities in secondary schools, by J. David Mohler and Edward C. Boimeier. *Journal of Leisure Research*, 1:283-85.

STONE, DONALD B., Associate Professor

Articles

- With *W. H. Creswell, W. J. Huffman, D. J. Merki, I. Newman*
University of Illinois anti-smoking education study. *Illinois Journal of Education, 60*, 3:27-37.

HEALTH SERVICE

BROWN, BRUCE L., Associate Professor

Articles

- Observation on *erythema nodosum*. *Illinois Medical Journal, 135*, 2:173.

HURSH, LAURENCE M., Director of Health Services and Professor of Health Science

Bulletins and Technical Reports

- Heart Disease—What do we know about diet as a risk factor? National Dairy Council, Chicago, 15 pp.

WALTERS, ORVILLE S., Professor of Health Science and Lecturer in Psychiatry

Articles

- Metaphysics, religion, and psychotherapy. In *Foundations of guidance and counseling*, ed. by C. E. Smith and O. G. Mink, J. B. Lippincott, New York, pp. 83-97.

- Contraceptives and the single person. In *Birth control and the Christian*, Ryndale House, Wheaton, Illinois, pp. 225-44.

- Christian answers to immaturity. *Christianity Today, 13*:763-68.

- Have rules become archaic? *Ibid.*, pp. 787-88.

- Maturity: when? *Ibid.*, pp. 973-76.

- Prescription for the minister. *Illinois Medical Journal, 136*:258-60.

Reviews

- A dynamic psychology of religion, by Paul W. Pruyser. *Journal of Christian Medical Society, 21*, 1:20-21.

- The dialogue between theology and psychology. *Journal of American Scientific Affiliation, 21*:53-54.

HISTORY

ARNSTEIN, WALTER L., Professor

Articles

- Charles Bradlaugh: the freethinker as statesman. *Question, 2*:86-98.

- Victorian prejudice reexamined. *Victorian Studies, 12*, 4:452-57.

Reviews

- The illiberal liberal: Robert Lowe in New South Wales, 1842-1850, by Ruth Knight. *Journal of Modern History, 40*, 4:618-19.

- The making of the second reform bill, by F. B. Smith, *Ibid.*, pp. 619-20.

- An expanding society: Britain 1830-1900, by G. S. R. Kitson Clark. *Victorian Studies, 12*, 4:479-80.

BATES, J. LEONARD, Professor

Articles

- T. J. Walsh: his "genius for controversy." *Montana: the Magazine of Western History, 19*, 4:3-15.

Reviews

- The brains trust, by R. G. Tugwell. *Journal of Southern History, 35*:439-41.

- William Jennings Bryan, ed. by Paul Glad. *Journal of the Illinois State Historical Society, 62*:314-16.

BERNARD, PAUL P., Professor

Reviews

- Frederick the Great and Kaiser Joseph (2nd ed.), by Harold Temperley. *Choice, 6*, 2:272.

- Franz Joseph I of Austria and his empire, by Anatol Murad. *Choice, 6*, 7:895.

- The Nazis in the Balkans, by Dietrich Orlow. *Military Affairs, 33*, 3:413-14.

DAHL, JOHN R., Associate Professor

Articles

- Humanities and history. *The Humanities Journal, 2*, 2:20-29.

- Problems and advantages of the culture-epoch approach to the humanities. *Ibid.*, 3, 1: 43-49.

With *R. A. Waller*

- Partners in higher education: history instructors at two-and-four-year institutions. *Studies in History and Society, 1*, 2:1-6.

DAWN, C. ERNEST, Professor

Reviews

- Islamic history of the middle east, by Wilson B. Bishai. *American Historical Review, 74*: 1332.

EASTMAN, LLOYD E., Associate Professor

Articles

- Marx, Mao, and the New Society. *Problems of Communism*, May-June, pp. 21-26.

FISHER, RALPH T., JR., Professor

Reviews

- The view from Lenin Hills: Soviet youth in ferment, by William Taubman. *Slavic Review, 28*:667-68.

HEINRICHS, WALDO H., Professor

Reviews

- Foreign Relations of the United States, 1945, Vol. III, ed. by United States Department of State. *American Historical Review, 74*: 1118.

HILL, BENNETT D., Associate Professor

Reviews

- Stephanus De-Lingua-Tonante: studies in the sermons of Stephen Langton, by Phyllis Barzillay Roberts. *American Historical Review, 75*, 2:469-70.

HITCHINS, KEITH A.

Books

- The Rumanian national movement in Transylvania, 1780-1849. Harvard University Press, Cambridge, 311 pp.

JOHANNSEN, ROBERT W., Professor

Articles

- Biographies, memories and collected works. In *Civil War books: a critical bibliography*, ed. by Allan Nevins, James I. Robertson, Jr. and Bell I. Wiley, Louisiana State University Press, Baton Rouge, pp. 35-104.

Reviews

- Jacksonian aristocracy: class and democracy in New York, 1830-1860, by Douglas T. Miller. *Canadian Journal of History, 4*: 121-22.

- August Belmont: A political biography, by Irving Katz. *Journal of American History, 56*:137-38.

- A melodrama entitled "Treason, strategems, and spoils," by William L. Adams, ed. by George N. Belknap. *Ibid.*, pp. 378-79.

- The burden of Southern history (rev. ed.), by C. Vann Woodward; the South and the

sectional conflict, by David M. Potter, *Journal of the Illinois State Historical Society*, 62:427-32.

KRUEGER, THOMAS A., Associate Professor

Reviews

Senator Josiah William Bailey of North Carolina by John Robert Moore. *The American Historical Review*, 73:1102-03.

The man who broke a thousand chains, by Vincent Godfrey Burns. *The Journal of American History*, 56:424-25.

LOVE, JOSEPH L., Associate Professor

Articles

La Raza: Mexican Americans in Rebellion. *Trans-action*, 6, 4:35-41.

Commentary. [on Henry H. Keith's "The non-violent tradition in Brazilian history"] *Conflict and continuity in Brazilian society*, ed. by Keith and Edwards, University of South Carolina Press, Columbia, pp. 241-47.

Reviews

Britain and the onset of modernization in Brazil: 1850-1914, by Richard Graham. *Hispanic American Historical Review*, 49:590-92.

Brazil: a giant stirs, by Richard Momsen, Jr. *Ibid.*, pp. 590-92.

McCOLLEY, ROBERT M., Associate Professor

Books

Federalists, republicans, and foreign entanglements. Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 176 pp.

McKAY, JOHN P., Assistant Professor

Reviews

The beginnings of railway development in Russia in the reign of Nicholas I, 1835-1842, by Richard Mowbray Haywood. *Business History Review*, 43, 4:466-67.

MITCHELL, RICHARD E., Associate Professor

Articles

The fourth century origin of roman didrachms. *The American Numismatic Society Museum Notes*, 15:41-71.

QUELLER, DONALD E., Professor

Articles

The civic irresponsibility of the Venetian nobility. In *Economy, society, and government in Medieval Italy: essays in memory of Robert L. Reynolds*, ed. by Herlihy, Lopez, and Slessarev, Kent State University, Kent, Ohio, pp. 223-235; and in *Explorations in Economic History*, 7:223-35.

With Susan J. Stratton

A century of controversy on the fourth crusade. *Studies in Medieval and Renaissance History*, 6:235-77.

SCHROEDER, PAUL W., Professor

Articles

Austria and the danubian principalities, 1853-1856. *Central European History*, 2, 216-36.

SOLBERG, WINTON U., Professor

Reviews

Autobiografia della giovane America: La storia americana dai padri pellegrini all'indipendenza, by Giorgio Spini. *American Historical Review*, 75:198-99.

SPENCE, CLARK C., Professor and Chairman of Department

Reviews

Bostonians and bullion: the journal of Robert Livermore, 1892-1915, ed. by Gene M. Gressley. *Ibid.*, 74:1004-05.

AZn: a history of the American zinc company, by James D. Norris. *Journal of Southern History*, 35:609-10.

Exploration and empire: the explorer and the scientist in the winning of the American west, by William H. Goetzmann. *Civil War History*, 15:62-63.

Boston capitalists and western railroads, by Arthur M. Johnson and Barry M. Supple. *Pacific Historical Review*, 37:474-75.

The mining frontier: contemporary accounts from the American West in the nineteenth century, ed. by Marvin Lewis. *Pacific Historical Review*, 38:99-100.

STARR, CHESTER G., Professor

Articles

Horace and Augustus. *American Journal of Philology*, 90:58-64.

Ideas of truth in early Greece. *La Parola del Passato*, 25:348-59.

Reviews

Untersuchungen zu den kriegsflotten, by D. Kienast. *American Journal of Philology*, 90, 120-22.

Der romische kaisereid, by P. Herrmann. *Classical World*, 63:60.

From Solon to Socrates, by V. Ehrenberg. *Gnomon*, 40, 705-06.

SUTTON, ROBERT M., Professor

Reviews

American locomotives: an engineering history, 1830-1880, by John H. White, Jr. *The Journal of American History*, 56, 1:136.

Before Mark Twain: a sampler of old, old times on the Mississippi, ed. by John Frances McDermott; Recollections of the last ten years in the valley of the Mississippi, by Timothy Flint. *Journal of the Illinois State Historical Society*, 62, 4:422-24.

UROFF, BENJAMIN P., Instructor

Reviews

A history of Russian economic thought: ninth through eighteenth centuries, ed. by John M. Letiche. *Slavic Review*, 28, 1:125-26.

WALLER, ROBERT A., Associate Professor and Associate Dean

Articles

With J. R. Dahl

Partners in higher education: history instructors at two- and four-year institutions. *Studies in History and Society*, 1, 2:1-6.

Promising practices in teaching about ethnic groups. *News and Notes on the Social Sciences*, January, pp. 2-5. Reprinted in *The Councilor*, 30:33-36. Reprinted in *The Indiana Social Studies Quarterly*, 22:11-14.

Reviews

Samuel Griswold Goodrich, creator of Peter Parley: a study of his life and work by Daniel Roselle. *The Historian*, 32:142.

DOCTORAL DISSERTATIONS

Austensen, Roy A. (P. W. Schroeder, Adviser), The early career of Count Buol, 1837-1852.

Crump, Gary A. (C. G. Starr, Adviser), Ammianus Marcellinus as a military historian.

Davis, George C., Jr. (J. L. Bates, Adviser), The Federal Trade Commission: promise and practice in regulating business, 1900-1929.

Hubbell, John T. (R. W. Johannsen, Adviser), The northern democracy and the crisis of disunion, 1860-1861.

Kounas, Dionysios D. A. (C. G. Starr, Adviser), Prelude to hegemony: studies in Athenian political parties from 402 to 379 B.C. pertaining to the revival of Athenian influence in Greece.

Lacy, Edmund E. (W. U. Solberg, Adviser), The conflict in thought over the role of religion in American higher education, 1865-1910.

Landon, Dale E. (B. D. Hill, Adviser), Church-state relations in the late Anglo-Saxon period, 871-1066: a study of reciprocal influence and support.

Laurenzo, Frederick E. (R. P. Stearns, Adviser), The Parliamentary career of Robert Harley, 1689-1710.

Meerse, David E. (R. W. Johannsen, Adviser), James Buchanan, the patronage, and the northern Democratic Party, 1857-1858.

HOME ECONOMICS

ACKER, GERALDINE E., Professor

Bulletins and Technical Reports

With Nyla Gorham

Let's start cooking. *University of Illinois College of Agriculture Cooperative Extension Service, GF2:41 pp.*

With V. L. Porter

Homemade ice cream, sherbet and ices. *Ibid., Circular 1002:11 pp.*

CRUSIUS, VERA C., Instructor

Books

With E. Evelyn Smith

A handbook on quantity food management. Burgess Publishing Co., Minneapolis, 191 pp.

DUNSGING, MARILYN M., Professor

Articles

With Joan M. Sampson

How, where, and with whom do today's families spend their leisure time? *Illinois Research, 11, 4:12-13.*

Bulletins and Technical Reports

With Jeanne L. Hafstrom

How your family can live within its income. *University of Illinois College of Agriculture Cooperative Extension Service Circular 996:20 pp.*

Income expenditure patterns of Illinois families, 1968. *University of Illinois Home Economics Extension Report 3785:77 pp.*

With Dorothy A. Goss, Jeanne L. Hafstrom

Money management for teens. *University of Illinois College of Agriculture Cooperative Extension Service 4H-216:19 pp.*

GALBRAITH, RUTH L., Professor

Articles

With Marian L. Buch

Consumer acceptance of cotton fabrics varying in laundry and abrasion damage. *Illinois Research, 11, 1:12-13.*

With Margaret Boyle, Esther Cormany,

Suzanne Davison, Adella Güter, and others
Changes in cotton and nylon fabrics caused by increments of Accelerator, Schiefer, and

Stoll abrasion. *Textile Research Journal, 39, 4:329-38.*

GOSS, DOROTHY A., Instructor

Bulletins and Technical Reports

With Jeanne L. Hafstrom, Marilyn M. Dunsing
Money management for teens. *University of Illinois College of Agriculture Cooperative Extension Service 4H-216:19 pp.*

HAFSTROM, JEANNE L., Instructor

Bulletins and Technical Reports

With Marilyn M. Dunsing

How your family can live within its income. *University of Illinois College of Agriculture Cooperative Extension Service, Circular 996:20 pp.*

Income expenditure patterns of Illinois families, 1968. *University of Illinois Home Economics Extension Report 3785:77 pp.*

With Dorothy A. Goss, Marilyn M. Dunsing

Money management for teens. *University of Illinois College of Agriculture Cooperative Extension Service 4H-216:19 pp.*

HASKELL, BETTY E., Associate Professor

See Food Science.

MILLS, QUEENIE B., Professor

Books

With W. D. Sheldon

Picture stories. Preparatory Book I, Sheldon basic reading series centennial edition (rev. ed.). Allyn and Bacon, Inc., Boston, 56 pp.

Picture stories, teachers' manual. *Ibid., 97 pp.*

At home and away. Comprehensive preprimer. Allyn and Bacon, Inc., Boston, 128 pp.

At home and away, teachers' manual. Comprehensive preprimer. *Ibid., 243 pp.*

Activity book for comprehensive preprimer, at home and away. *Ibid., 80 pp.*

Articles

With L. D. Van den Daele

Hand shape and personality traits. *Illinois Research, 11, 4:13.*

PERRY, AIKO K., Instructor

Articles

With Frances O. Van Duyne

Freezing orange sections at home. *Ibid., 2:18.*

PIFER, GLENDA L., Assistant Professor

Reviews

Product safety in household goods, ed. by F. Reed Dickerson. *Journal of Home Economics, 61:382, 384.*

SEIDEL, K. VIRGINIA, Associate Professor

Articles

With C. S. Walters

Selecting wood furniture. *Illinois Research, 11, 2:16-18.*

SPORAKOWSKI, MICHAEL J., Assistant Professor

Articles

With P. R. Mills

What's it all about? An overview of family therapy. *The Family Coordinator, 18, 1:61-69.*

VAN DEN DAELE, LELAND D., Assistant Professor

Articles

Qualitative models in developmental analysis. *Developmental Psychology, 1, 4:303-10.*

Preschool intervention through social learn-

ing. ERIC National Laboratory for Early Childhood Education, University of Illinois, Urbana, 27 pp.

With Queenie B. Mills

Hand shape and personality traits. *Illinois Research*, 11, 4:13.

VAN DUYN, FRANCES O., Professor

Articles

With Aiko K. Perry

Freezing orange sections at home. *Illinois Research*, 11, 2:18.

HORTICULTURE

ARNOLD, CHARLES Y., Professor

Articles

Inherited characteristics of sweet corn as they relate to the time required for development. *Journal of the American Society for Horticultural Science*, 94, 2:112-15.

Environmentally induced variations of sweet corn characteristics as they relate to the time required for development. *Ibid.*, pp. 115-18.

Sweet corn development as affected by environment and by inherent differences among hybrids. *Illinois Research*, 11, 1: 10-11.

BEEVERS, LEONARD, Associate Professor

Articles

Growth regulator control of senescence in leaf discs of *Nasturtium* (*Tropaeolum Majus*). In *Biochemistry and physiology of plant growth substances*, ed. by Wightman and Setterfield, Runge Press, Ottawa, Canada, pp. 1417-35.

With R. H. Hageman

Nitrate reduction in higher plants. In *Annual review of plant physiology*, ed. by L. Machlis, Annual Review Inc., Palo Alto, 20:495-522.

With T. Y. Chin, M. M. Meyer, Jr.

Absciscic acid stimulated rooting of stem cuttings. *Planta*, 88:192-96.

CARBONNEAU, MARVIN C., Associate Professor

Articles

Weed control in the nursery. In *1970 Recommendations for ornamental horticulture*, University of Illinois Department of Horticulture, Urbana, H-665, pp. 47-52.

With J. B. Gartner, D. C. Saupe

Tree bark for growing potted plants. *Illinois Research*, 10, 4:16.

Tree bark for growing potted plants. *Illinois State Florists' Association Bulletin*, 299:4.

Bulletins and Technical Reports

Gardening in Containers. University of Illinois College of Agriculture Cooperative Extension Service Circular 997, 15 pp.

COURTER, JOHN W., Assistant Professor

Articles

With J. S. Vandemark, H. J. Hopen

1969 vegetable varieties for commercial plant growers. *Illinois State Florists' Association Bulletin*, 299:6-7.

With A. M. Rhodes

Historical notes on horseradish. *Economic Botany*, 23, 2:156-64.

With T. R. Peck, A. M. Rhodes, W. M. Walker

Mineral composition of horseradish. *Armoracia rusticana*. *Agronomy Journal*, 61:526-27.

With A. M. Rhodes, S. G. Carmer

Measurement and classification of genetic variability in horseradish. *Journal of the American Society for Horticultural Science*, 94, 2:98-102.

Bulletins and Technical Reports

With C. C. Zych, D. B. Meador, C. C. Doll,

J. A. Tweedy

Herbicides for commercial fruit crops. University of Illinois Department of Horticulture H-659, 4 pp.

With H. J. Hopen, J. S. Vandemark,

C. C. Zych, C. C. Doll

Report of 1968 vegetable and small fruit variety and cultural trials. University of Illinois, Department of Horticulture, Urbana, H-661, 35 pp.

With H. J. Hopen, J. S. Vandemark

Mulching vegetables. University of Illinois College of Agriculture Cooperative Extension Service Circular 1009, 23 pp.

With M. C. Shurtleff, D. P. Taylor,

R. Randell

Soil disinfestation methods and materials. University of Illinois College of Agriculture Cooperative Extension Service Circular 893, 23 pp.

With C. C. Zych, A. G. Otterbacher

Performance of new thornless blackberries. *Transactions of the Illinois Horticultural Society*, 102:128-30.

Performance of highbush blueberry varieties. *Ibid.*, pp. 131-36.

COX, EDWARD L., Research Associate

Articles

With R. C. Huffaker

Lower enzyme activities and pigment contents in chlorophyll mutants of barley. *Plant Physiology*, 44 (supplement):33.

CULBERT, JOHN R., Professor

Articles

With D. C. Saupe

An analysis of the results from the 1968 National Chrysanthemum Society Test Gardens. *National Chrysanthemum Society Bulletin* 25, 5:155-60.

DAYTON, DANIEL F., Professor

Articles

Genetic heterogeneity in the histogenic layers of apple. *Journal of the American Society for Horticultural Science*, 94, 6:592-95.

DICKINSON, DAVID B., Associate Professor

Articles

With J. Preiss

ADP-glucose pyrophosphorylase from maize endosperm. *Archives of Biochemistry and Biophysics*, 130:119-28.

Presence of ADP-glucose pyrophosphorylase in shrunken-2 and brittle-2 mutants of maize endosperm. *Plant Physiology*, 44:1058-62.

The presence of ADP-glucose pyrophosphorylase in the developing seeds of the maize mutants shrunken-2 and brittle-2. *Ibid.*, (supplement):33.

FOSLER, GAIL M., Instructor

Articles

With D. C. Saupe

Suggested bedding plant varieties for commercial growing and landscaping in 1970. *Illinois State Florists' Association Bulletin*, 310, 1:4-9; 13-16.

Bulletins and Technical Reports

Suggested varieties of garden annuals for use

in home plantings, 1969. University of Illinois Department of Horticulture, Flower Growing, 14:6 pp.

GARTNER, JOHN B., Professor

Articles

With M. C. Carbonneau, D. C. Saupe

Tree bark for growing potted plants. *Illinois Research*, 10, 4:16.

Tree bark for growing potted plants. *Illinois State Florists' Association Bulletin*, 299:4.

With J. O. Aylsworth

Checking your labor cost. *Illinois State Nurserymen's Association Newsletter*, 110:4.

Development of grades and standards for nursery plants in Illinois. *1970 recommendations for ornamental horticulture*, University of Illinois Department of Horticulture, Urbana, H-665: 53-55.

With M. M. Meyer, Jr., S. W. Binnie

Evaluation of dichlobenil, abscisic acid and temperature on shoot growth during and after storage of woody ornamentals. *Journal of the American Society for Horticultural Science*, 94, 6:658-60.

With D. C. Saupe, T. R. Yocom

The use of hardwood bark fiber in growing, mulching and packaging of ornamental crops. *Illinois State Florists' Association Bulletin*, 309:4, 8.

The use of hardwood bark fiber in growing, mulching and packaging of ornamental crops. *Illinois State Nurserymen's Association Newsletter*, 116:2, 4.

With D. C. Saupe, J. E. Klett, T. R. Yocom

The use of hardwood bark fiber as a media for container grown ornamentals. *1970 Recommendations for Ornamental Horticulture*, University of Illinois Department of Horticulture, Urbana, H-665:29-32.

Artificial media for preparing a ball for bare root nursery stock. *Ibid.*, pp. 38-46.

With M. M. Meyer, Jr., Jewell Kirkpatrick

Lime and slow release fertilizer effects on standard and experimental media for growth of woody ornamentals in containers. *Ibid.*, pp. 33-37.

HODGES, THOMAS K., Associate Professor

Articles

With J. D. Fisher

Monovalent ion stimulated adenosine triphosphatase from oat roots. *Plant Physiology*, 44:385-95.

HOPEN, HERBERT J., Assistant Professor

Articles

Selectivity of nitrofen between cabbage cultivars. *HortScience*, 4, 2:119-20.

Kraft paper-poly mulch spreads melon harvest. *American Vegetable Grower*, 17, 5:22-23.

With J. W. Courter, J. S. Vandemark

1969 vegetable varieties for commercial plant growers. *Illinois State Florists' Association Bulletin*, 299:6-7.

With C. C. Doll

Procedure and results of investigations for weed control in a minor crop: horseradish. *North Central Weed Control Conference Proceedings*, 24:54.

Bulletins and Technical Reports

Tolerance of peas and carrots to trifluralin. *North Central Weed Control Conference Research Report*, pp. 44-46.

With J. W. Courter, J. S. Vandemark

C. C. Zych, C. C. Doll

Report of 1968 vegetable and small fruit variety and cultural trials. University of Illinois Department of Horticulture, Urbana, H-661:35 pp.

With J. W. Courter, J. S. Vandemark

Mulching vegetables. University of Illinois College of Agriculture Cooperative Extension Service Circular 1009, 23 pp.

HUGHES, TOM D., Assistant Professor

Articles

With G. W. Colliver, L. F. Welch

A method for marking the point of anhydrous ammonia release. *Agronomy Journal*, 61: 485.

Bulletins and Technical Reports

With L. F. Welch

Potential for fertilizer leaching. *1969 Illinois Fertilizer Conference Proceedings*, pp. 43-46.

With W. M. Walker

A survey of leaf levels of B, Cu, Mn, and Zn in corn and soybeans in 1968. *Agronomy Day Report*, p. 2.

JAYCOX, ELBERT R., Professor

Bulletins and Technical Reports

Beekeeping in Illinois. University of Illinois College of Agriculture Cooperative Extension Service Circular 1000, 132 pp.

McDANIEL, JOSEPH C., Assistant Professor

Articles

Pecan. In *Encyclopaedia Britannica*, 17:428.

Pecans. In *Handbook of North American nut trees*, ed. by Jaynes, Northern Nut Growers Association, Knoxville, Tennessee, pp. 163-89.

Cultivars in *Cercis canadensis*. *Illinois State Nurserymen's Association Newsletter*, 109: 3-4.

"Ballerina," a new *Loebner magnolia*. *Ibid.*, 110:2-3.

Propagation of *Koelreuteria paniculata* "September." *Ibid.*, 111:3-4.

Some newer shade tree magnolias. *Ibid.*, 113: 3-4.

A neater white fringetree. *American Nurseryman*, 130, 5:48.

Modern magnolias. *Ibid.*, 130, 10:56-63.

Hybridization and selection in *Magnolia*. *Sixth Central States Forest Tree Improvement Conference Proceedings*, pp. 63-71.

Bulletins and Technical Reports

With C. C. Doll, D. B. Meador

Tree fruit and nut varieties for Illinois home orchards. University of Illinois College of Agriculture Cooperative Extension Service Circular 998, 6 pp.

MEADOR, DANIEL B., Assistant Professor

Articles

The weather and crop summary. *Proceedings of the Illinois State Horticultural Society*, 102:108-10.

Illinois apple and peach tree survey. *Ibid.*, pp. 98-100. 1968.

With R. Meyer, M. Shurtleff

An analysis of the Illinois 95% Clean Apple Club. *Ibid.*, pp. 112-21. 1968.

Bulletins and Technical Reports

With C. C. Doll, J. C. McDaniel

Tree fruit and nut varieties for Illinois home

orchards. University of Illinois College of Agriculture Cooperative Extension Service Circular 998, 6 pp.

With R. Randell, M. Shurtleff

Home orchard pest control. University of Illinois College of Agriculture Cooperative Extension Service Circular 1001, 8 pp.

With D. Powell, R. Meyer, R. Randell, M. Shurtleff

Pest control and related practices in commercial fruit plantings. University of Illinois College of Agriculture Cooperative Extension Service Circular 1004, 48 pp.

With J. W. Courter, C. C. Zych, C. C. Doll, J. A. Tweedy

Herbicides for commercial fruit crops. University of Illinois Department of Horticulture, Urbana, H-659:4 pp.

MEYER, MARTIN M., JR., Assistant Professor

Articles

Nutrition of woody ornamental plants. *1970 Recommendations for Ornamental Horticulture*, University of Illinois Department of Horticulture, Urbana, H-665:34-37.

With W. E. Splittstoesser

The utilization of carbohydrate and nitrogen reserves in the spring growth of lilac. *Physiologia Plantarum*, 22:870-79.

Woody ornamental plant growth as related to nitrogen application. *Illinois Research*, 11, 3:10-11.

Carbohydrate and nitrogen changes during spring growth of woody plants. *Plant Physiology*, 44 (supplement):4.

With S. W. Binnie, J. B. Gartner

Evaluation of dichlobenil, abscisic acid and temperature on shoot growth during and after storage of woody ornamentals. *Journal of the American Society for Horticultural Science*, 94, 6:658-60.

With K. Brewer, C. Gredowski

Effect of abscisic acid on *Cymbidium* orchid plants. *Bulletin of the American Orchid Society*, 38:591-92.

With L. Beevers, T. Y. Chin

Abscisic acid stimulated rooting of stem cuttings. *Planta*, 88:192-96.

With J. B. Gartner, Jewell Kirkpatrick

Lime and slow release fertilizer effects on standard and experimental media for growth of woody ornamentals in containers. *1970 Recommendations for Ornamental Horticulture*, University of Illinois Department of Horticulture, Urbana, H-665:33-37.

MOWRY, JAMES B., Professor

Articles

Differential orchard fireblight susceptibility of young apple scions. *HortScience*, 4, 2:128-30.

With B. E. Colvis

The influence of cold and chemical treatments on the afterripening of apple seeds. *Transactions of the Illinois State Academy of Science*, 62, 4:425-29.

NELSON, WILLIAM R., JR., Associate Professor

Books

Design study—Dixon State School. State of Illinois, Department of Mental Health, 68 pp.

Articles

Landscape criteria for golf courses. *Illinois Turfgrass Conference Proceedings*, 9:35-43.

OTTERBACHER, ALAN G., Assistant Horticulturist

Articles

With J. W. Courter, C. C. Zych

Performance of new thornless blackberries. *Transactions of the Illinois Horticultural Society* 102:128-30.

Performance of highbush blueberry varieties. *Ibid.*, pp. 131-36.

With D. Powell, C. C. Zych

The induction of stelar reddening in strawberry roots. *Plant Disease Reporter*, 53: 794-97.

RHODES, ASHBY M., Associate Professor

Articles

With J. W. Courter

Historical notes on horseradish. *Economic Botany*, 23, 2:156-64.

With J. W. Courter, S. G. Carmer

Measurement and classification of genetic variability in horseradish. *Journal of the American Society of Horticultural Science*, 94, 2:98-102.

With T. R. Peck, J. W. Courter, W. M. Walker

Mineral composition of horseradish, *Armoracia rusticana*. *Agronomy Journal*, 61:526-27.

With H. C. Barrett, S. G. Carmer

A taxonomic study of interspecific variation in *Vitis*. *Vitis*, 8:117-87.

SAUPE, DONALD C., Instructor

Articles

With J. R. Culbert

An analysis of the results from the 1968 National Chrysanthemum Society Test Gardens. *National Chrysanthemum Society Bulletin*, 25, 5:155-60.

With J. B. Gartner, M. C. Carboneau

Tree bark for growing potted plants. *Illinois Research*, 10, 4-16.

Tree bark for growing potted plants. *Illinois State Florists' Association Bulletin*, 299:4.

With J. B. Gartner, T. R. Yocom

The use of hardwood bark fiber in growing, mulching and packaging of ornamental crops. *Illinois State Florists' Association Bulletin*, 309:4, 8.

The use of hardwood bark fiber in growing, mulching and packaging of ornamental crops. *Illinois State Nurserymen's Association Newsletter*, 116:2, 4.

With J. B. Gartner, J. E. Klett, T. R. Yocom

The use of hardwood bark fiber as a media for container grown ornamentals. *1970 Recommendations for Ornamental Horticulture*, University of Illinois Department of Horticulture, Urbana, H-665:29-32.

Artificial media for preparing a ball for bare root nursery stock. *Ibid.*, pp. 38-46.

With G. M. Foster

Suggested bedding plant varieties for commercial growing and landscaping in 1970. *Illinois State Florists' Association Bulletin*, 310:1; 4-9; 13-16.

SIMONS, ROY K., Professor

Articles

Tissue response of young developing apple fruits to freeze injury. *Journal of the American Society for Horticultural Science*, 94, 4:376-82.

Fruit tissue injury in apricots, *Prunus armeniaca* L., and sweet cherries, *Prunus avium* L., as a result of a late spring freeze. *Ibid.*, pp. 466-70.

With R. F. Carlson

Characteristics and propagation of rootstocks for deciduous fruits in the North Central Region, 1966-67. *HortScience*, 3, 4:220-25.

SPLITTSTOESSER, WALTER E., Assistant Professor

Articles

Metabolism of arginine by aging and 7 day old pumpkin seedlings. *Plant Physiology*, 44:361-66.

Arginine metabolism by pumpkin seedlings. Separation of plant extracts by ion exchange resins. *Plant and Cell Physiology*, 10:87-94.

The appearance of arginine and arginase in pumpkin cotyledons. Characterization of arginase. *Phytochemistry*, 8:753-58.

With M. M. Meyer, Jr.

The utilization of carbohydrate and nitrogen reserves in the spring growth of lilac. *Phytologia Plantarum*, 22:870-79.

Woody ornamental plant growth as related to nitrogen applications. *Illinois Research*, 11, 3:10-11.

Carbohydrate and nitrogen changes during spring growth of woody plants. *Plant Physiology*, 44 (supplement):4.

With S. A. Stewart

Nitrogen metabolism in pumpkin seedlings. *HortScience*, 4:170.

With J. S. Titus

The metabolism of fumarate by peach, apple and privet roots. *Phytochemistry*, 8:2133-38.

STEWART, SHERYL A., Assistant Horticulturist

Articles

With W. E. Splittstoesser

Nitrogen metabolism in pumpkin seedlings. *HortScience* 4:170.

THOMPSON, ANSON E., Professor

Articles

With R. J. Armstrong

A rapid and accurate system for scoring tomato fruit cracking. *Ibid.*, pp. 288-90.

TITUS, JOHN S., Professor

Articles

With W. E. Splittstoesser

The metabolism of fumarate by peach, apple and privet roots. *Phytochemistry* 8:2133-38.

VANDEMARK, JOSEPH S., Professor

Articles

With J. W. Courter, H. J. Hopen

1969 vegetable varieties for commercial plant growers. *Illinois State Florists' Association Bulletin*, 299:6-7.

Bulletins and Technical Reports

With J. W. Courter, H. J. Hopen, C. C. Zych, C. C. Doll

Report of 1968 vegetable and small fruit variety and cultural trials. University of Illinois Department of Horticulture, Urbana, H-661: 35 pp.

With J. W. Courter, H. J. Hopen

Mulching vegetables. University of Illinois College of Agriculture Cooperative Extension Service Circular 1009, 23 pp.

ZYCH, CHESTER C., Associate Professor

Articles

Pruning and training bramble fruits and highbush blueberries. *Bio-Dynamics*, 92: 17-26.

With J. W. Courter, A. G. Otterbacher

Performance of new thornless blackberries. *Transactions of the Illinois Horticultural Society*, 102:128-30.

Performance of highbush blueberry varieties. *Ibid.*, pp. 131-36.

With A. G. Otterbacher, D. Powell

The induction of stelar reddening in strawberry roots. *Plant Disease Reporter*, 53: 794-97.

Bulletins and Technical Reports

With J. W. Courter, D. B. Meador,

C. C. Doll, J. A. Tweedy

Herbicides for commercial fruit crops. University of Illinois Department of Horticulture, Urbana, H-659: 4 pp.

With J. W. Courter, H. J. Hopen,

J. S. Vandemark, C. C. Doll

Report of 1968 vegetable and small fruit variety and cultural trials. *Ibid.*, H-661, 35 pp.

DOCTORAL DISSERTATIONS

Klehm, Carl H. (J. B. Gartner, Adviser), Chemical defoliant and their effects on woody ornamental plants.

INSTITUTIONAL RESEARCH

DUFF, FRANKLIN L., Associate Director and Associate Professor

Bulletins and Technical Reports

The University's new faculty, September 1968. University Bureau of Institutional Research, University of Illinois, Urbana, 53 pp.

FROEHLICH, G. J., Director and Professor

Bulletins and Technical Reports

With R. C. Carey

Higher-education enrollment in Illinois: 1960-2000. *Ibid.*, 29 pp.

With A. R. Lewandowski

Enrollment in institutions of higher learning in Illinois: 1969. *Ibid.*, 125 pp.

INSTRUCTIONAL RESOURCES

ALEAMONI, LAWRENCE M., Associate Professor

Articles

With R. E. Spencer

A comparison of biserial discrimination, point-biserial discrimination, and difficulty indices in item analysis data. *Journal of Educational and Psychological Measurement*, 29:353-58.

An evaluation of the Pennsylvania foreign language project. *The Modern Language Journal*, 53:421-28.

With Sushila Singhal

The use of correction for guessing formula in scoring proficiency examinations. *The Manitoba Journal of Education*, 4:57-63.

Bulletins and Technical Reports

Results of a questionnaire on selection, placement and proficiency procedures at American colleges and universities 1966-1967. Measurement and Research Division, Champaign, Illinois, 91 pp.

BOWERS, JOHN, Research Assistant Professor

Articles

Interactive effects of creativity and IQ on

ninth grade achievement. *Journal of Educational Measurement*, 6:173-77.

EVERLY, JACK C., Assistant Professor
Bulletins and Technical Reports

Continuing education instruction via the mass media. Agricultural communications research report 24, University of Illinois College of Agriculture, Urbana, 7 pp.

McINTYRE, CHARLES J., Director

Reviews

Resistance to innovation in higher education: a social psychological exploration focussed on television and the establishment, by R. Evans. *Contemporary Psychology*, 14, 2:97.

SPENCER, RICHARD E., Professor

Articles

The academic performance of foreign students in American colleges and universities: comments on the literature 1960-1967, with bibliography. In *Research in programs for foreign students*, ed. by Laurette Kirstein, Institute for International Education, New York, pp. 24-48.

With F. P. Barnes

Student and faculty perceptions of the meanings of college education. *Illinois School Research*, 5, 3:24-29.

With L. M. Aleamoni

A comparison of biserial discrimination, point biserial discrimination, and difficulty indices in item analysis data. *Educational and Psychological Measurement*, 29:353-58.

STALLINGS, WILLIAM M., Assistant Professor

Articles

With Sushila Singhal

Confidence level and significance level: Semantic confusion or logical fallacy. *Journal of Experimental Education*, 37, 4:57-59.

With F. E. Anderson

Some characteristics and correlates of the meier art test of aesthetic perception under two systems of scoring. *Journal of Educational Measurement*, 6, 3:179-85.

With J. L. Wolff, M. L. Maehr

Fear of failure and the pass-fail grading option. *Journal of Experimental Education*, 38, 2:87-91.

JOURNALISM

CAREY, JAMES W., Associate Professor
See Communications Research.

EVANS, JAMES F., Associate Professor
See Agricultural Communications.

GRAHAM, GENE S., Associate Professor

Articles

Publishing. In *Living history of the world*, Stravon Educational Press, New York, pp. 367-71.

Feature writing. In *High school journalism today*, ed. by Gene Gilmore, Interstate Printers and Publishers, Danville, Illinois, pp. 6-8.

GUBACK, THOMAS H., Research Assistant Professor, Institute of Communications Research, and Assistant Professor of Journalism

Books

The international film industry. Indiana University Press, Bloomington, 244 pp.

Reviews

Mass media and communication, by Charles S. Steinberg. *Journal of Aesthetic Education*, 3, 1:131-32.

The history of popular culture, by Norman F. Cantor and Michael S. Werthman. *Journal of Aesthetic Education*, 3, 3:163-64.

KNIGHTS, PETER R., Assistant Professor

Articles

Population turnover, persistence, and residential mobility in Boston, 1830-60. In *Nineteenth-century cities: essays in the new urban history*, ed. by Thernstrom and Sennett, Yale University Press, New Haven, pp. 258-74.

"Competition" in the U.S. daily newspaper industry, 1865-68. *Journalism Quarterly*, 45, 3:473-80.

City directories as aids to ante-bellum urban studies: a research note. *Historical Methods Newsletter*, 2, 4:1-10.

A method for estimating census under-enumeration. *Ibid.*, 3, 1:5-8.

With Leo F. Schnore

Residence and social structure: Boston in the ante-bellum period. In *Nineteenth-century cities: essays in the new urban history*, ed. by Thernstrom and Sennett, Yale University Press, New Haven, pp. 247-57.

Reviews

Cyrus Field: man of two worlds, by Samuel Carter III. *Journalism Quarterly*, 45, 3: 560-61.

A citizen's dissent: Mark Lane replies, by Mark Lane. *Ibid.*, 46, 3:643-44.

Accessories after the fact: the Warren Commission, the authorities, and the report, by Sylvia Meagher. *Ibid.*, pp. 643-44.

What a way to run the tribe: selected articles 1948-67, by James Cameron. *Ibid.*, 4: 843-44.

PETERSON, THEODORE B., Professor and Dean of College of Communications

Articles

Magazines. In *Collier's 1969 yearbook*, Crowell-Collier Educational Corp., p. 341.

Reviews

The history of Punch, by Marion Harry Spielmann. *Journalism Quarterly*, 46:4, 836.

LABOR AND INDUSTRIAL RELATIONS

DERBER, MILTON, Professor

Articles

"Industrial democracy" as an organizing concept for a theory of industrial relations. In *Essays in industrial relations theory*, ed. by Gerald G. Somers, Iowa State University Press, 200 pp.

Who negotiates for the public employer? In *Perspective in public negotiation*, Public Personnel Association, Special Issue, Chicago, pp. 52-58.

FOLK, HUGH W., Professor

Articles

The problem of youth unemployment. In *The transition from school to work*, Industrial Relations Section, Princeton University, New Jersey, pp. 76-107.

Youth unemployment: an economic analysis. *National Association of Secondary School Principals Bulletin*, 334, 2:41-56.

Unemployment insurance and the unemployment problems of today. *Illinois Business Review*, 26, 4:6-8.

Workmen's compensation: a solution or a problem? *Illinois Business Review*, 26, 9:6-8.

The oversupply of the young. *Trans-Action*, 6, 10:27-32.

Reviews

Social security: perspectives for reform, by Joseph A. Pechman, Henry A. Aaron, and Michael K. Tausig. *Quarterly Review of Economics and Business*, 9, 1:77-80.

Unemployment, idle capacity, and the evaluation of public expenditures: national and regional analyses, by Robert H. Haveman and John V. Krutilla. *Monthly Labor Review*, 92, 5:81-82.

Bulletins and Technical Reports

With P. T. Hartman

Private pensions and severance pay for displaced defense workers. U.S. Arms Control and Disarmament Agency, U.S. Government Printing Office, Washington, D.C., 138 pp.

FRANKE, WALTER H., Professor

Articles

Employment. In *Colliers year book 1969*, Crowell-Collier Education Corp., New York, pp. 235-37.

GERHART, PAUL, Assistant Professor

Articles

The scope of bargaining in local government labor negotiations. *Labor Law Journal*, 20, 8:545-52.

GRAEN, GEORGE B., Assistant Professor

See Psychology.

HARTMAN, PAUL T., Associate Professor

See Economics.

HULIN, CHARLES L., Associate Professor

See Psychology.

KIMBERLY, JOHN R., Assistant Professor

See Sociology.

SCOVILLE, JAMES G., Associate Professor

Books

The job content of the U.S. economy, 1940-1970. McGraw-Hill Book Co., Inc., New York, 144 pp.

Articles

Remuneration in Afghan industry. *International Labor Review*, 99, 4:381-400.

A theory of jobs and training. *Industrial Relations*, 9, 1:36-53.

The occupational structure of employment, 1960-1980. *Sectoral Aspects of Projections for the World Economy*, United Nations, New York, 3:77-109.

Reviews

The peripheral worker, by Dean Morse. *Monthly Labor Review*, 92, 10:71-72.

STURMTHAL, ADOLF F., Professor

Articles

Workers' participation in management: a review of U.S. experience. *International Institute for Labour Studies Bulletin*, Geneva, 6:149-86.

Reviews

German economic policy in Spain during the Spanish Civil War, 1936-39, by Glenn T.

Harper. Foreign labor in Nazi Germany, by Edward L. Homze. *Wirtschaft unter Zwang*, by Hans-Eckhardt Kannapin. In *Journal of Economic History*, 29, 2:354-58.

Labor relations in the Netherlands, by John F. Windmuler. *Monthly Labor Review*, 92, 6:80-81.

TAIRA, KOJI, Professor

Articles

Urban poverty, ragpickers and "Ants' Villa" in Tokyo. *Economic Development and Cultural Change*, 17, 1:155-76.

Differences in social security development in selected countries. *International Social Security Review*, 2, 7:1-17.

Consumer preferences, poverty norms, and extent of poverty. *Quarterly Review of Economics and Business*, 9, 2:31-44.

Duality, squatters, and development. *Tijdschrift voor Sociale Wetenschappen*, 14, 4: 122-36.

Bulletins and Technical Reports

Industrial revolution and factory labor in Japan. *Memorandum 82*, Research Center in Economic Growth, Stanford University, Stanford, California, 86 pp.

TRIANDIS, HARRY C., Professor

See Psychology.

LAW

BROWN, ROBERT W., Assistant Professor

Articles

Equal justice needs an effective community advocate. *Chicago Daily Law Bulletin*, April 25, p. 11.

COHN, RUBIN G., Professor

Books

With G. D. Braden

The Illinois constitution: an annotated and comparative analysis. Institute of Government and Public Affairs, University of Illinois, 624 pp.

CRIBBET, JOHN E., Professor and Dean

Articles

The public activities of a judge. *Chicago Bar Record*, 51:78-84.

GOLDBERG, STEPHEN B., Professor

Articles

The labor law obligations of a successor employer. *Northwestern University Law Review*, 63, 6:735-836.

Coordinated bargaining: some unresolved questions. *Monthly Labor Review*, 92, 4: 56-58.

Coordinated bargaining tactics of unions. *Cornell Law Review*, 54, 6:897-919.

HAY, PETER, Professor

Articles

Supremacy of community law in national courts: a progress report on referrals under the EEC treaty. *American Journal of Comparative Law*, 16:524-51.

Comments on Burdell v. Canadian Pacific Airlines and the constitutionality of the Warsaw Convention. *Illinois Bar Journal*, 58:26-38.

Reviews

The immunity of foreign states under international law and under the German law of

civil procedure, by Schaumann and Habscheid. *Modern law and society*, 2:50-52.

European community law and organizational development, by Axline. *American Journal of International Law*, 63:657-58.

Droit des communautes Europeennes, by Ganshof van der Meersch. *American Journal of Comparative Law*, 17:479-82.

Business regulation in the common market nations by Ginsburg. *American Journal of International Law*, 1, 64:205-06.

KIONKA, EDWARD J., Assistant Professor and Assistant Dean

Reviews

Illinois estate administration, by William K. Stevens. *University of Illinois Law Forum*, 1968:257-62.

KRAUSE, HARRY D., Professor

Articles

Why bastard, wherefore base? *Annals of the American Academy of Political and Social Science*, 383:58-70. Also in *Progress in family law*, ed. by J. S. Bradway.

Legitimate and illegitimate offspring of Levy v. Louisiana — first decisions on equal protection and paternity. *University of Chicago Law Review*, 36:338-63. Also in *New York Law Journal*, 11:5-7.

Kommende entwicklungen im amerikanischen unehelichenrecht. *Zeitschrift fuer das gesamte Familienrecht*, 16:304-11.

The bastard finds his father. *Family Law Quarterly*, 3:100-11.

Equal protection and paternity. *Welfare Law Bulletin*, 16:26-27.

Reviews

Das neue unehelichengesetz: die gesetzesvorlage, by Jansen & Knoepfel. *American Journal of Comparative Law*, 17:131-33.

Law of adoption, by Leavy; Laws governing family planning, by Weinberg. *American Journal of Comparative Law*, 17:134.

LAFAVE, WAYNE R., Professor

Books

With L. Hall, Y. Kamisar, J. Israel

Modern criminal procedure. West Publishing Co., St. Paul, Minnesota, 1456 pp.

Basic criminal procedure. West Publishing Co., St. Paul, Minnesota, 618 pp.

Articles

Police discretion. In *Crime and justice in society*, ed. by R. Quinney, Little, Brown and Co., Boston, pp. 109-25.

Future trends in the administration of criminal justice. In *Administration of criminal justice*, ed. by E. R. Oettinger. Southern Regional Educational Board, Atlanta, pp. 153-74.

MAGGS, PETER B., Professor

Books

With J. N. Hazard, I. Shapiro

The Soviet legal system (rev. ed.). Oceana Publications, Dobbs Ferry, New York, 667 pp.

Articles

With M. Smiljanic

Investment in Yugoslavia and Eastern Europe. *Journal of Law and Economic Development*, 4, 1:1-15.

Reviews

Sotsial'noe strakhovanie v. Rossii v. 1917-19 godakh, by S. M. Schwarz. *American Historical Review*, 74, 5:1670.

MC CORD, JOHN H., Associate Professor

Books

With J. C. O'Byrne

Deskbook for Illinois estate planners. Bobbs-Merrill Co., Inc., Indianapolis, Indiana, 498 pp.

Books Edited

Dimensions of academic freedom. University of Illinois Press, Urbana, 121 pp.

With all deliberate speed — civil rights theory and reality. University of Illinois Press, Urbana, 205 pp.

Proceedings of institute on establishing and administering pension and profit sharing plans. Illinois Institute for Continuing Legal Education, Springfield, 110 pp.

Pension plans: current problems. *University of Illinois Law Forum*, 1967, 4:691-802 and 1968, 1:1-62.

Civil rights: the role of legal institutions. *University of Illinois Law Forum*, 1968, 2:105-200 and 3:269-374.

Tax fraud. *University of Illinois Law Forum*, 1968, 3:431-538.

Articles

A view from the halls of ivy: a law professor looks at continuing legal education. *Illinois Bar Journal*, 57, 10:823-29.

Planning for the smaller estate. In *12th Annual estate planning short course*. Illinois Institute for Continuing Legal Education, pp. 6-29.

Advising small corporations: selected tax problems. In *26th Annual federal tax course*. Illinois Institute for Continuing Legal Education, pp. 4-1 to 4-60.

O'CONNELL, JEFFREY, Professor

Books

With W. Wilson

Car insurance and consumer desires. University of Illinois Press, Urbana, 115 pp.

Articles

Contradictions in automobile advertising. In *Readings in general sociology*, (4th ed.) ed. by R. O'Brien, C. Schrag, and W. Martin, pp. 227-34.

The automobile insurance industry and federal takeover. *University of Chicago Law Review*, 36:734-41.

With R. E. Keeton.

Basic protection for traffic victims. In *III Selected readings: economics, government and business*, American Institute for Property and Liability Underwriters, pp. 55-65.

PLAGER, SHELDON J., Professor

Articles

Participatory democracy and the public hearing. *Journal of Administrative Law*, 21:153.

The planning/land use control relationship: a look at some alternatives. *Land-Use Controls Quarterly*, 3:26.

Recent decisions in planning law-1968. *Journal of The American Institute of Planners*, 35:264.

YOUNG, J. NELSON, Professor

Bulletins and Technical Reports

New revenue sources and constitutional issues. *Report of Governor's Revenue Study Committee 1968-1969*, Appendix 9, State of Illinois, pp. 213-21.

Constitutionality of service occupation tax. *Ibid.*, pp. 221-23.

LIBRARY

BLUM, ELEANOR, Associate Professor

Books

The public library as a market for first novels. An exploratory study. University of Illinois, Institute of Communications Research, Urbana, 21 pp.

Communications research in U.S. universities: 1969. A directory (rev. ed.), University of Illinois, Institute of Communications Research, Urbana, 30 pp.

Articles

Other books and pamphlets on journalistic subjects. *Journalism Quarterly*, 46, 1:182-87; 2:400-05; 3:649-54; 4:854-58.

Reviews

The author's empty purse and the rise of the literary agent, by James Hepburn. *Journal of Library History*, 4:377-79.

BROWN, D. A., Professor

Articles

The great Peshtigo fire. *American History*, 3, 10:26-32.

The Belknap scandal. *Ibid.*, 4, 2:32-40.

Ely S. Parker, a profile. *Ibid.*, 4, 7:12-21.

The Lewis and Clark adventure. *Ibid.*, 4, 8:4-9; 41-47.

Animals and wildlife. *Compton Yearbook*, pp. 104-05.

Conservation. *Ibid.*, pp. 187-88.

Dairy products. *Ibid.*, p. 194.

Grain. *Ibid.*, p. 258.

Reviews

Frontiersmen in blue; the U.S. Army and the Indians, 1848-1865, by Robert M. Utley. *American History*, 3, 9:56.

Plains Indian raiders; the final phase of warfare from the Arkansas to Red River, by Wilbur S. Nye. *Ibid.*, 3, 10:48-49.

The search for General Miles, by Newton Tolman. *Ibid.*, 3, 10:49.

BROWN, NORMAN B., Associate Professor

Articles

With W. H. Huff

Price indexes for 1969: serial services. *Library Journal*, 94, 13:2572-73.

DEAL, CARL W., Associate Professor

Articles

Cooperative cataloging of Latin American materials. In *Thirteenth seminar on the acquisition of Latin American library materials*. Pan American Union, Washington, D.C., pp. 257-63.

Reviews

The Latin American cooperative acquisitions program . . . an imaginative venture, by M. J. Savary. *The Journal of Library History*, 4, 4:364-66.

DELZELL, ROBERT F., Professor

Articles

On a clear day. . . . In *Reminiscences: seventy-five years of a library school*, ed. by Barbara Olsen Slanker, University of Illinois, Graduate School of Library Science, Urbana, pp. 120-23.

Reviews

Personnel organization and procedure: a manual suggested for use in college and university libraries, by the Personnel Publications Committee, Personnel Administration Section, Library Administration Division,

American Library Association. In *Drexel Library Quarterly*, 5:49-50.

DOWNS, ROBERT B., Dean of Library Administration

Books

Books that changed the world. Pure Literature Monthly Co., Taipei, Taiwan, 313 pp. In Chinese. 1968.

Books that changed the world. Van Dan, Saigon, Vietnam, 406 pp. In Vietnamese. 1968.

Molders of the modern mind. Shaikh Gulam Ali, Lahore, Pakistan, 564 pp. In Urdu. 1968.

Books that changed America. University of Denver, Graduate School of Librarianship, Denver, 10 pp.

Articles

Doctoral degrees and library resources. *College and Research Libraries*, 5, 30:417-21.

Apologist for censorship. In *Book selection and censorship in the sixties*, ed. by Eric Moon, R. R. Bowker Co., New York, pp. 251-54.

Bulletins and Technical Reports

Survey of the library of Brigham Young University. Brigham Young University Library, Provo, Utah, 165 pp.

Libraries in North Carolina public senior colleges and universities: present status and future needs. North Carolina Board of Higher Education, Raleigh, 42 pp.

Report of the library committee, Illinois Board of Higher Education. Illinois Board of Higher Education, Springfield, 60 pp.

With J. W. Heussman

University library statistics. Association of Research Libraries, Washington, D.C., 129 pp.

HEUSSMAN, JOHN W., Instructor

Bulletins and Technical Reports

With R. B. Downs

University library statistics. Association of Research Libraries, Washington, D.C., 129 pp.

HUFF, WILLIAM H., Professor

Articles

With N. B. Brown

Price indexes for 1969: serial services. *Library Journal*, 94, 13:2572-73.

KIM, CHIN, Assistant Professor

Articles

A new national library: the national diet library of Japan. *The Journal of Library History*, 4:225-38.

Reviews

Legal profession in Korea, by Jay Murphy. *Law Library Journal*, 62:114.

American-Belgian private international law. *Ibid.*, p. 334.

KOZLOW, ROBERT D., Assistant Professor

Articles

Genesis of a serials list. In *Proceedings of the 1968 clinic on library applications of data processing*, ed. by Dewey E. Carroll, University of Illinois, Graduate School of Library Science, Urbana, pp. 216-35.

TALMADGE, ROBERT L., Professor

Articles

Footnote on fourteen extras. In *Reminiscences: seventy-five years of a library*

school, ed. by Barbara Olsen Slanker, University of Illinois, Graduate School of Library Science, Urbana, pp. 104-06.

WALKER, JOHN A., Assistant Professor

Reviews

Guide to periodicals in education, by William L. Camp. *Drexel Library Quarterly*, 5, 1:52-53.

WHITE, LUCIEN W., Professor

Articles

Some highlights of the ILA's past. *Illinois Libraries*, 51, 3:190-99.

WILLARD, D. DEAN, Instructor

Articles

The use of form headings in the cataloging of legal materials. *Law Library Journal*, 61:289-93. 1968.

An argument against the use of conventional headings in the cataloging of primary legal sources. *Library Resources and Technical Services*, 13:198-202.

WHITE, ROBERT C., Associate Professor

Reviews

Catalogue of printed maps, charts and plans, by British Museum, Department of Printed Books, Map Room. *Special Libraries Association, Geography and Map Division, Bulletin*, 77:51-52.

Directory of Canadian map collections, compiled by Joan Winearls and Yves Tessier. *Special Libraries Association, Geography and Map Division, Bulletin*, 78:64-65.

Scratch ankle, U.S.A.: American place names and their derivation. *Special Libraries Association, Geography and Map Division, Bulletin*, 78:69-70.

LIBRARY RESEARCH CENTER

BERNER, WILLIAM S., Research Associate

Articles

Campaign conduct and the outcome of library bond referendums. In *Studies in public library government, organization and support*, ed. by Guy Garrison, pp. 213-300.

Planning library referendum campaigns: a survey of current literature, *Illinois Libraries*, 51:112-24.

KRONUS, CAROL L., Assistant Professor

Articles

With J. W. Grimm

Public opinion in Illinois regarding public library support and use. *Ibid.*, pp. 125-212.

LEONARD, LAWRENCE E., Research

Associate

Books

With J. M. Maier, R. M. Dougherty

Centralized book processing: a feasibility study based on Colorado academic libraries. Scarecrow Press, Metuchen, New Jersey, 401 pp.

Articles

The Colorado academic libraries book processing center project: time study methodology. *Library Resources and Technical Services*, 13, 1:116-27.

LINDAHL, RUTH G., Research Associate

Articles

Suburban communities and public library service in the Chicago standard metropolitan

statistical area. In *Studies in public library government, organization and support*, ed. by Guy Garrison, pp. 69-124.

With W. S. Berner

Financing public library expansion: case studies of three defeated bond issue referendums. *Ibid.*, pp. 1-68.

SCHILLER, ANITA R., Research Assistant Professor

Articles

Academic librarians' salaries. *College and Research Libraries*, 30, 2:101-11.

With J. W. Grimm, M. C. Trumpeter

Characteristics of professional personnel in college and university libraries. *Illinois State Library, Research Series, Springfield*, 16:118.

SLANKER, BARBARA O., Research Associate

Books Edited

Reminiscences: seventy-five years of a library school. University of Illinois Graduate School of Library Science, Urbana.

Articles

Administrative structure of public library systems and its relationship to level of service offered by member libraries. In *Studies in public library government, organization and support*. ed. by Guy Garrison, pp. 301-420.

STENSTROM, RALPH H., Research Associate

Articles

Factors associated with membership and non-membership in library systems in Illinois. *Ibid.*, pp. 421-526.

LIBRARY SCIENCE

ALLEN, WALTER C., Assistant Professor

Reviews

Where the surfers are: a guide to the world's great surfing sports, by Peter L. Dixon. *Library Journal*, 94, 3:564.

The day the world ended. by Gordon Thomas and Max Morgan Witts. *Ibid.*, 4:756.

This new man: a discourse in portraits, ed. by J. Benjamin Townsend. *Ibid.*, 7:1481.

Readings in the earth sciences, from *Scientific American*. *Ibid.*, 12:2478.

Life with Daktari: two vets in East Africa, by Susanne Hart. *Ibid.*, p. 2460.

Hyenas in my bedroom, by Jack Mohr. *Ibid.*, 13:2634.

The affair of the poisons, by Frances Mossiker. *Ibid.*, 16:3059-60.

BONE, LARRY E., Assistant Professor

Books Edited

Library school teaching methods: courses in the selection of adult materials. Graduate School of Library Science, University of Illinois, Urbana, 137 pp.

Articles

International conference on education for librarianship. *International Library Review*, 1, 2:173-82.

Reviews

A bibliographical guide to the study of southern literature, by Louis D. Rubin, Jr. *Library Journal*, 94, 20:4130.

Bernard Malamud: an annotated checklist, by Rita N. Kosotsky. *Ibid.*, 22:4513.

JENKINS, FRANCES B., Professor

Books

Science reference sources (5th ed.). Massachusetts Institute of Technology Press, Cambridge, 231 pp.

LADLEY, WINIFRED C., Professor

Bulletins and Technical Reports

Sources of good books and magazines for children (rev. ed.). International Reading Association, Newark, Delaware, 18 pp.

LANCASTER, FREDERICK W., Associate Professor

Articles

Evaluating the performance of a large computerized information system. *Journal of the American Medical Association*, 207, 1:114-20.

Medlars: report on the evaluation of its operating efficiency. *American Documentation*, 20, 2:119-42.

With D. W. King

Costs, performance and benefits of information systems. *Proceedings of the American Society for Information Science*, 6:501-05.

Bulletins and Technical Reports

Conceptual alternatives to the scientific journal: a study conducted for the American Geological Institute. Westat Research, Inc., Bethesda, Maryland, 118 pp.

STEVENS, ROLLAND E., Professor

Reviews

Encyclopedia of library and information science, ed. by Allen Kent and Harold Lancour. *College and Research Libraries*, 30: 171-72.

WERT, LUCILLE M., Assistant Professor

Articles

Education for school librarianship in Illinois—1900 to the present. *Illinois Libraries*, 50, 9:860-72.

DOCTORAL DISSERTATIONS

Baumann, Charles H. (H. Goldhor, Adviser), The influence of Angus Snead MacDonald and the Snead bookstack on library architecture.

Evans, Gayle E. (R. E. Stevens, Adviser), The influence of book selection agents upon book collection usage in academic libraries.

Highfill, William C. (H. Goldhor, Adviser), The relationship of indexing depth to subject catalog retrieval effectiveness.

Magrill, Rose M. (R. E. Stevens, Adviser), Occupational image and the choice of librarianship as a career.

Picache, Ursula D. (R. E. Stevens, Adviser), Some effects of summer institute participation of school librarians' provision of services and on their attitudes toward the instructional materials center concept.

Spence, Paul H. (R. B. Downs, Adviser), A comparative study of university library organizational structure.

LINGUISTICS

KACHRU, BRAJ B., Professor and Head of Department

Books

A reference grammar of Kashmiri. Department of Linguistics, University of Illinois, Urbana, 416 pp.

Books Edited

With Yamuna Kachru

Studies in Hindi linguistics. American Institute of Indian Studies, New Delhi, 193 pp.

Articles

Kashmiri and other Dardic languages. In *Current trends in linguistics*, vol. 5, *Linguistics in South Asia*, ed. by Thomas A. Sebeok and others, Mouton and Co., The Hague, pp. 284-306.

English in South Asia, *Ibid.*, pp. 627-78.

Reviews

Studies in socio-linguistics, by A. Capell, Mouton and Co., The Hague, *Foundations in Language*, 5, 1:140-48.

KACHRU, YAMUNA, Associate Professor

Books Edited

With Braj B. Kachru

Studies in Hindi linguistics. American Institute of Indian Studies, New Delhi, 193 pp.

Articles

On the so-called conjunct verb in Hindi. In *Hindi linguistics*, ed. by Braj B. and Yamuna Kachru, American Institute of Indian Studies, New Delhi, pp. 58-64.

Contemporary linguistic models and descriptive analyses of Hindi. In *Studies in Hindi linguistics*, ed. by Braj B. and Yamuna Kachru, American Institute of Indian Studies, New Delhi, pp. 134-51.

A note on possessive constructions in Hindi-Urdu. *Journal of Linguistics*, 6, 1:37-45.

KAHANE, HENRY R., Professor

See Spanish.

KIM, CHIN-W., Associate Professor

Articles

Boundary phenomena in Korean. *Papers in Linguistics*, 2:1-26.

A theory of aspiration. *Phonetica*, 21:107-16.

Reviews

Intonation, perception, and language, by Philip Lieberman. *Language*, 44:830-41.

KISSEBERTH, CHARLES W., Assistant Professor

Articles

On the abstractness of phonology: the evidence from Yawelmani. *Papers in Linguistics*, 1, 2:248-82.

LEHMAN, FREDERIC K., Professor

See Anthropology.

MAKINO, SEIICHI, Assistant Professor

Books

Some aspects of Japanese nominalizations. Tokai University Press, Tokyo, 191 pp.

Articles

Buntokutyoo to nihongo no kizyutu (Sentential features and the description of Japanese). *Bulletin of the Institute of Language Teaching*, 8:1-15.

STAHLKE, HERBERT F., Visiting Instructor

Articles

Serial verbs. *Studies in African Linguistics*, 1, 1:60-99.

Bulletins and Technical Reports

Serialization and deep structure. In PEGS/Educational Research Information Clearinghouse, Washington, D.C., 19 pp.

DOCTORAL DISSERTATIONS

- Ahdo, Daud A. (R. B. Lees, Adviser), Stress and Arabic phonology.
- Bouton, Lawrence F. (R. B. Lees, Adviser), Pro-sententialization and the *Do It* construction in English.
- Foster, Joseph F. (R. B. Lees, Adviser), On some phonological rules of Turkish.
- Gallagher, Mary J. (H. S. Maclay, Adviser), *Have* and the perfect in English.
- Kisseberth, Charles W. (H. S. Maclay, Adviser), Theoretical implications of Yawelmani phonology.
- Newmeyer, Frederick J. (R. B. Lees, Adviser), English aspectual verbs.
- Saciuk, Bohdan, (J. H. D. Allen, Adviser), Lexical strata in generative phonology (with illustrations from Ibero-Romance).
- Sadock, Jerrold M. (H. R. Kahane, Adviser), Hypersentences.
- Vanek, Anthony L. (R. B. Lees, Adviser), Subject-verb agreement.
- Willis, Bruce E. (B. B. Kachru, Adviser), The alternation of so-called learned/popular vocabulary in a phonological description of Latin American Spanish.

MARKETING

DOCTORAL DISSERTATIONS

- Debord, Warren A. (R. Ferber, Adviser), An empirical analysis of distances traveled to purchase selected apparel items by selected segmentation variables.
- Gieselman, Robert D. (R. Ferber, Adviser), Automobile brand loyalty.
- Granzin, Kent L. (F. M. Jones, Adviser), A conceptual framework for physical distribution.
- Hanna, Nessim Y. N. (F. M. Jones, Adviser), An appraisal of consumers' cooperation under selected economic systems.
- Smart, Albert D. (F. M. Jones, Adviser), Specialization among retailers in Illinois, Indiana and Ohio, 1870-1910.

MATHEMATICS

ALEXANDER, JOHN R., Associate Professor

Articles

- Density and digits of sequences of integers. *The Michigan Mathematical Journal*, 16, 1:85-92.

ALEXANDER, STEPHANIE, Instructor

Articles

- Reducibility of Euclidean immersions of low codimension. *Journal of Differential Geometry*, 3, 1:69-82.

APPEL, KENNETH I., Associate Professor

Articles

- On two variable equations in free groups. *Proceedings of American Mathematical Society*, 21:179-84.

ARMSTRONG, JAMES W., Associate Professor

Books

- Elements of mathematics. The Macmillan Co., New York, 320 pp.

BABAKHANIAN, ARARAT, Assistant Professor

Books

- Cohomology of finite groups. Queen's Papers in Pure and Applied Mathematics, No. 17, Queen's University, Kingston, Ontario, 211 pp.

BANK, STEVEN B., Associate Professor

Articles

- A note on the rate of growth of solutions of algebraic differential equations in sectors. *Journal of the London Mathematical Society*, 2, 1:145-54.
- On majorants for solutions of algebraic differential equations in regions of the complex plane. *Pacific Journal of Mathematics*, 31:573-82.
- An existence theorem for solutions of second order nonlinear ordinary differential equations in the complex domain. *Rendiconti del Seminario Matematico dell' Universita di Padova*, 41:276-99.
- On meromorphic solutions of algebraic differential equations. *Commentarii Mathematici Helvetici*, 44:401-09.
- On solutions of algebraic differential equations whose coefficients are entire functions of finite order. *Annali di Matematica Pura ed Applicata*, 83:175-83.

BATEMAN, PAUL T., Professor and Head of Department

Articles

With H. G. Diamond

- Asymptotic distribution of Beurling's generalized prime numbers. In *Studies in number theory*, ed. by William J. Leveque, Mathematical Association of America, pp. 152-210.

BERG, I. DAVID, Associate Professor

Articles

- On functions with almost periodic or almost automorphic first differences. *Journal of Mathematics and Mechanics*, 19, 3:239-46.
- With L. A. Rubel*
- Densities on locally compact abelian groups. *Annales De l'Institut Fourier*, 19, 1:81-107.

BERKSON, ASTRID J., Assistant Professor

Articles

With A. McConnell

- On inflation-restriction exact sequences in group and Amitsur cohomology. *Transactions of the American Mathematical Society*, 141:403-13.

BERKSON, EARL R., Associate Professor

Articles

With H. A. Porta

- Representations of $B(X)$. *Journal of Functional Analysis*, 3, 1:1-34.

With H. R. Dowson

- Prespectral operators. *Illinois Journal of Mathematics*, 13, 2:291-315.

BERNDT, BRUCE C., Assistant Professor

Articles

- Identities involving the coefficients of a class of Dirichlet series (I). *Transactions of the American Mathematical Society*, 137, 1: 345-59.
- Identities involving the coefficients of a class of Dirichlet series (II). *Ibid.*, pp. 361-74.
- Arithmetical identities and Hecke's functional equation. *Proceedings of the Edinburgh Mathematical Society*, 16, 3:221-26.

- On the zeros of the Riemann zeta-function. *Proceedings of the American Mathematical Society*, 22, 1:183-88.
- A note of the number of integral ideals of bounded norm in a quadratic number field. *Bulletin of the American Mathematical Society*, 75, 6:1283-85.
- BISHOP, RICHARD L.**, Associate Professor
Articles
With B. O'Neill
Manifolds of negative curvature. *Transactions of the American Mathematical Society*, 145:1-50.
- BOHRER, ROBERT E.**, Assistant Professor
Articles
On one-sided confidence bounds for response surfaces. In *Bulletin of the international statistical institute*, 37th session, International Statistical Institute, London, pp. 273-75.
- BRAUNFELD, PETER G.**, Professor
See Education.
- BROWN, JOHN W.**, Assistant Professor
Articles
Enumeration of latin squares with application to order 8. *Journal of Combinatorial Theory*, 5, 2:177-84.
- CAIRNS, STEWART S.**, Professor
Books
With M. Morse
Critical point theory in global analysis and differential topology. Academic Press, New York and London, 389 pp.
- CARROLL, ROBERT W.**, Professor
Books
Abstract methods in partial differential equations. Harper-Row, New York, 374 pp.
- Articles
On the structure of some abstract differential problems, II. *Annali di Matematica*, 81: 93-109.
Some variable domain problems in abstract evolution equations. In *Proceedings of the conference on equations of evolution and nonlinear semigroups*, Mathematics Department, University of Kentucky, Lexington, pp. 11-24.
- Reviews
Equations of mixed type, by A. V. Bitsadze, *Scripta Mathematica*, 28:133-34.
- CHEN, KUO-TSAI**, Professor
Articles
Covering-space-like algebras. *Journal of Algebra*, 13:308-26.
An algebraic dualization of fundamental groups. *Bulletin of the American Mathematical Society*, 75:1020-24.
- CRAGGS, ROBERT F.**, Assistant Professor
Articles
Building cartesian products of surfaces with $[0,1]$. *Transactions of the American Mathematical Society*, 144:391-425.
- DAY, MAHLON M.**, Professor
Articles
Semigroups and amenability. In *Semigroups, Proceedings of a symposium at Wayne State University*, ed. by K. W. Folley, Academic Press, New York, pp. 5-53.
- DENNIN, JOSEPH B., JR.**, Visiting Lecturer
Articles
With D. L. McQuillan
A note on the classical groups over semi-local rings. *Proceedings of the Royal Irish Academy*, 68, 1:1-4.
- DIAMOND, HAROLD G.**, Associate Professor
Articles
The prime number theorem for Beurling's generalized numbers. *Journal of Number Theory*, 1, 2:200-07.
With P. T. Bateman
Asymptotic distribution of Beurling's generalized prime numbers. In *Studies in number theory*, ed. by W. J. Leveque, Mathematical Association of America, pp. 152-210.
- DOOB, JOSEPH L.**, Professor
Articles
An application of stochastic process separability. *L'Enseignement Mathématique*, 15: 101-05.
- DORNHOFF, LARRY L.**, Assistant Professor
Articles
The rank of primitive solvable permutation groups. *Mathematische Zeitschrift*, 109: 205-10.
- FAUDREE, RALPH J.**, Assistant Professor
Articles
Locally finite and solvable subgroups of S-fields. *Proceedings of the American Mathematical Society*, 22:407-13.
- FOSSUM, ROBERT M.**, Associate Professor
Articles
Vector bundles over spheres are algebraic. *Inventiones Mathematicae*, 8:222-25.
- FRANCIS, GEORGE K.**, Assistant Professor
Articles
The folded ribbon theorem. A contribution to the study of immersed circles. *Transactions of the American Mathematical Society*, 141:271-303.
Null genus realizability criterion for abstract intersection sequences. *Journal of Combinatorial Theory*, 7, 4:331-41.
- FRASCELLA, WILLIAM J.**, Assistant Professor
Articles
The non-existence of a certain combinatorial design on an infinite set, *Notre Dame Journal of Formal Logic*, 10:317-23.
- FUKUSHIMA, MASATOSHI**, Research Associate
Articles
On boundary conditions for multi-dimensional Brownian motions with symmetric resolvent densities. *Journal of the Mathematical Society of Japan*, 21:58-93.
On Dirichlet spaces and Dirichlet rings. *Proceedings of the Japan Academy*, 45:433-36.
- GOLDBERG, SAMUEL I.**, Professor
Books
With W. C. Weber
Conformal deformations of Riemannian manifolds. *Queen's Papers on Pure and Applied Mathematics*, Queen's University, Kingston, Ontario, Canada, 210 pp.

- Articles**
 Integrability of almost Kaehler manifolds. *Proceedings of the American Mathematical Society*, 21:96-100.
 On conformally flat spaces with definite Ricci curvature. *Kodai Mathematical Seminar Reports*, 21:226-32.
- With K. Yano*
 Integrability of almost cosymplectic structures. *Pacific Journal of Mathematics*, 31:373-82.
 Variétés globalement réperées. *Comptes Rendus de l'Académie des Sciences, Paris*, 269:920-22.
- GRAY, JOHN**, Professor
Articles
 The categorical comprehension scheme. In *Category theory, homology theory and their applications, III*. Lecture Notes in Mathematics, Springer-Verlag, New York, 99:242-312.
- HAMSTROM, MARY-ELIZABETH**, Professor
Articles
With R. P. Jerrard
 Collapsing a triangulation of a "knotted" cell. *Proceedings of the American Mathematical Society*, 21, 2:327-31.
- HEINS, MAURICE H.**, Professor
Books
 Complex function theory, rev. ed. Academic Press, Inc., New York, 416 pp.
 Hardy classes on Riemann surfaces. Springer-Verlag, Berlin, Heidelberg, New York, 106 pp.
- HELMS, LESTER L.**, Associate Professor
Books
 Introduction to potential theory. Wiley-Interscience, New York, 286 pp.
- HOHN, FRANZ E.**, Professor
Articles
 Algebraic foundations for automata theory. In *Applied automata theory*, ed. by Julius J. Tou, Academic Press, New York, pp. 1-34.
- JANUSZ, GERALD J.**, Assistant Professor
Articles
 Indecomposable modules for finite groups. *Annals of Mathematics*, 89, 2:209-41.
With F. R. DeMeyer
 Finite groups with an irreducible character of large degree. *Mathematische Zeitschrift*, 108:145-53.
- JERRARD, RICHARD P.**, Professor
Articles
With M.-E. Hamstrom
 Collapsing a triangulation of "knotted" cell. *Proceedings of the American Mathematical Society*, 21, 2:327-31.
- JOCKUSCH, CARL G., JR.**, Assistant Professor
Articles
 Uniformly introreducible sets. *Journal of Symbolic Logic*, 33, 4:521-36.
 The degrees of bi-immune sets. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, 15:135-40.
 Relationships between reducibilities. *Transactions of the American Mathematical Society*, 142:229-37.
- The degrees of hyperhyperimmune sets. *Journal of Symbolic Logic*, 34, 3:489-93.
With T. G. McLaughlin
 Countable retracing functions and π_2^0 predicates. *Pacific Journal of Mathematics*, 30, 1:67-93.
- JOGDEO, KUMAR**, Associate Professor
Articles
With S. W. Dharmadhikari
 Bounds on moments of certain random variables. *Annals of Mathematical Statistics*, 40:1506-08.
- KAMBER, FRANZ W.**, Associate Professor
Articles
With P. M. Tondeur
 Flat manifolds with parallel torsion. *Journal of Differential Geometry*, 2:385-89.
- KAUFMAN, ROBERT P.**, Associate Professor
Articles
 Gap series and an example to Malliavin's theorem. *Pacific Journal of Mathematics*, 28:117-19.
 Small subsets of finite abelian groups. *Annales Fourier Grenoble*, 18:99-102.
 An exceptional set for Hausdorff dimension. *Mathematika*, 16:57-58.
 On a class of semi-group algebras. *Czechoslovak Mathematical Journal*, 94:248-51.
 A random method for lacunary series. *Journal d'Analyse Mathématique*, 22:171-75.
 A problem on lacunary series. *Acta Szeged*, 29:313-16.
 Une propriété métrique du mouvement brownien. *Comptes Rendus de l'Académie des Sciences Paris*, 268:727-28.
 On Hausdorff dimension of projections. *Mathematika*, 15:153-55.
- KNIGHT, FRANK B.**, Professor
Articles
 A path space for positive semigroups. *Illinois Journal of Mathematics*, 13, 3:542-63.
 Brownian local times and taboo processes. *Transactions of the American Mathematical Society*, 143:173-85.
- LEVIATAN, DANY**, Visiting Associate Professor
Articles
 On the representation of functions as Laplace integrals. *Journal London Mathematical Society*, 44, 1:88-92.
 On moment sequences of operators. *Illinois Journal of Mathematics*, 13, 1:249-55.
 Some Tauberian theorems for quasi-Hausdorff transforms. *Mathematische Zeitschrift*, 108, 3:213-22.
 On a representation theorem and application to moment sequences in locally convex spaces. *Mathematische Annalen*, 182, 4:251-62.
 Some Tauberian theorems concerning (S^*, μ) transformations. *Tohoku Mathematical Journal*, 21, 3:389-405.
 On the remainder in the approximation of functions of Bernstein-type operators. *Journal of Approximation Theory*, 2, 4:400-09.
With A. Jakimowski
 Completeness and approximation operators. *Publications Ramanujan Institute Madras*, 1:123-29.
With L. Lorch
 A characterization of totally regular $[J, f(x)]$

- transformations. *Proceedings of the American Mathematical Society*, 23, 2:315-19.
- With M. Müller*
Some applications of the Gamma-operators. *Archiv der Mathematik*, 20, 6:638-47.
- LEVY, HARRY, Professor
- Books**
With Lucretia Levy
Analytic geometry. Harcourt, Brace and World, Inc., New York, 445 pp.
- LEVY, LUCRETIA M., Assistant Professor
- Books**
With H. Levy
Analytic geometry. Harcourt, Brace and World, Inc., New York, 445 pp.
- LOEB, PETER A., Associate Professor
- Articles**
Compactifications of Hausdorff spaces. *Proceedings of the American Mathematical Society*, 22, 3:627-34.
- MARTI, JURG T., Visiting Lecturer
- Books**
Introduction to the theory of bases. Springer-Verlag, Berlin, Heidelberg, New York, 150 pp.
- McCULLOH, LEON R., Associate Professor
- Articles**
Cyclic extensions of prime power degree and corresponding residue systems. *Journal of Number Theory*, 1, 4:459-66.
- With W. T. Stout, Jr.*
Corresponding residue systems in cyclic extensions of prime degree over algebraic number fields. *Journal of Number Theory*, 1, 3:12-25.
- McLAUGHLIN, THOMAS G., Associate Professor
- Articles**
With C. G. Jockusch, Jr.
Countable retracing functions and π_2^0 predicates. *Pacific Journal of Mathematics*, 30, 1:67-93.
- MENDEL, CLIFFORD W., Professor
- Articles**
With I. A. Barnett
On a system of non-linear differential equations. *Annali di Matematica pura ed applicata*, 81, 4:347-58.
- MILES, JOSEPH B., Assistant Professor
- Articles**
A note on Ahlfors' theory of covering surfaces. *Proceedings of the American Mathematical Society*, 21, 1:30-32.
- OSBORN, HOWARD A., Professor
- Articles**
Derivations of commutative algebras. *Illinois Journal of Mathematics*, 13, 1:137-44.
Correction to my paper "The Morse index theorem." *Proceedings of the American Mathematical Society*, 20, 2:337-38.
- Reviews**
Formes differentiales, by Henri Cartan. *Mathematical Reviews*, 37, 6:1275-76.
- OSGOOD, CHARLES R., Associate Professor
- Articles**
A method in diophantine approximation, III. *Acta Arithmetica*, 16, 1:5-22.
- A method in diophantine approximation, IV. *Acta Arithmetica*, 16, 1:23-35.
- With S. Haber*
On a theorem of Piatetsky-Shapiro and approximation of multiple integrals. *Mathematics of Computation*, 23:165-68.
On the sum $\sum \langle am \rangle^{-t}$ and numerical integration. *Pacific Journal of Mathematics*, 31, 2:383-93.
- PECK, N. TENNEY, Assistant Professor
- Articles**
A non-locally convex example. *Archiv der Mathematik*, 19:494-98.
- PERESSINI, ANTHONY L., Associate Professor
- Articles**
With D. R. Sherbert
Ordered topological tensor products. *Proceedings of the London Mathematical Society*, 19:177-90.
- PHILIPP, WALTER V., Associate Professor
- Articles**
Das gesetz vom iterierten logarithmus mit anwendungen auf die zahlentheorie. *Mathematische Annalen*, 180:75-94.
The central limit problem for mixing sequences of random variables. *Zeitschrift für Wahrscheinlichkeitsrechnung und verwandte Gebiete*, 12:155-71.
The remainder in the central limit theorem for mixing stochastic processes. *The Annals of Mathematical Statistics*, 40:601-09.
The law of the iterated logarithm for mixing stochastic processes. *Ibid.*, pp. 1985-91.
- With O. P. Stackelberg*
Zwei grenzwertsätze für kettenbrüche. *Mathematische Annalen*, 181:152-56.
- PORTA, HORACIO A., Assistant Professor
- Articles**
Two sided ideals of operators. *Bulletin of the American Mathematical Society*, 75:599-602.
A note on homomorphisms of operator algebras. *Colloquium Mathematicum*, 20:117-19.
- With E. Berkson*
Representations of $B(X)$. *Journal of Functional Analysis*, 3, 1:1-34.
- With Lazaro Recht*
Spectra of algebras of holomorphic germs. *Illinois Journal of Mathematics*, 13:515-20.
- RAJAGOPALAN, M., Associate Professor
- Articles**
With T. Soundararajan
Self dual LCA metric groups. *Fundamenta Mathematica*, 65:309-16.
- REINER, IRVING, Professor
- Books**
With C. W. Curtis
Representation theory of finite groups and associative algebras, rev. ed., Izdatel'stvo (Mauka) Physics-Mathematical Literature, Moscow, 668 pp. In Russian.
- Articles**
With T. Y. Lam
Relative Grothendieck groups. *Journal of Algebra*, 11:213-42.
Relative Grothendieck rings. *Bulletin of the American Mathematical Society*, 75:496-98.
Finite generation of Grothendieck rings relative to cyclic subgroups. *Proceedings of*

the American Mathematical Society, 23: 481-89.

ROBINSON, DEREK S., Associate Professor

Articles

A note on groups of finite rank. *Compositio Mathematica*, 21:240-46.

Groups which are minimal with respect to normality begin intransitive. *Pacific Journal of Mathematics*, 32:1-9.

ROTHMAN, NEAL J., Associate Professor

Articles

With J. W. Baker

Separating points by semicharacters in topological semigroups. *Proceedings of the American Mathematical Society*, 21:235-39.

With J. G. Bergman

An L^p algebra for algebraically irreducible semigroups. *Studia Mathematica*, 33:257-72.

Bulletins and Technical Reports

Harmonic analysis on topological semigroups. Madurai University Press, Madurai, India, 168 pp.

RUBEL, LEE A., Professor

Articles

Lectures on vector spaces of analytic functions. *Symposium on Theoretical Physics and Mathematics*, Plenum Press, New York, 9:191-269.

Uniform distribution and densities on locally compact Abelian groups. *Ibid.*, pp. 183-89.

Une methode de series de Fourier pour les fonctions meromorphes. *Seminaire d'Analyse* (Lelong), pp. 1.01-1.05.

With B. A. Taylor

Weighted polynomial approximation on the integers. *Archiv für Mathematik*, 19:511-15.

Functional analysis proofs of some theorems in function theory. *American Mathematical Monthly*, 76:483-89.

A completeness theorem for entire functions. *Journal of the Indian Mathematical Society*, 32:195-98.

With G. R. MacLane

On the growth of Blaschke products. *Canadian Journal of Mathematics*, 21:595-600.

With I. D. Berg

Densities on locally compact Abelian groups. *Annales de l'Institut Fourier, Grenoble*, 19: 81-107.

SCOTT, EDWARD J., Professor

Articles

Boundary-value problems associated with inhomogeneous diffusion and wave equations with retarded arguments in time. *Buletinul Institutului Politehnic din Iasi*, 14, 18: 459-62.

On a class of linear partial differential equations with retarded argument in time. *Buletinul Institutului Politehnic din Iasi*, 15, 19:99-103.

SCHUPP, PAUL E., Assistant Professor

Articles

The form problem for free groups. *Proceedings of the American Mathematical Society*, 23:421-23.

A note on recursively enumerable predicates in groups. *Fundamenta Mathematica*, 66: 61-63.

SHERBERT, DONALD R., Associate Professor

Articles

With A. L. Peressini

Ordered topological tensor products. *Proceedings of the London Mathematical Society*, 19:177-90.

STACKELBERG, OLAF P., Visiting

Associate Professor

Articles

With W. V. Philipp

Zwei grenzwertsätze für kennbrüche. *Mathematische Annalen*, 181:152-56.

STOLARSKY, KENNETH B., Assistant

Professor

Articles

A vanishing finite sum associated with Jacobi's triple product identity. *Journal of Combinatorial Theory*, 6, 4:392-98.

A lower bound for the Scholz-Brauer problem. *Canadian Journal of Mathematics*, 21: 675-83.

STOUT, WILLIAM F., Assistant Professor

Articles

With Y. S. Chow

On the expected value of a stopped stochastic sequence. *The Annals of Mathematical Statistics*, 40:456-61.

SUZUKI, MICHIO, Professor

Articles

A simple group of order 448,345,497,600. In *Theory of finite groups*, ed. by R. Brauer and C. H. Sah, Benjamin, New York, pp. 113-19.

Characterizations of linear groups. *Bulletin of the American Mathematical Society*, 75: 1043-91.

TAKEUTI, GAISI, Professor

Articles

The universe of set theory. In *Foundations of mathematics*, ed. by Bulloff, Holyoke and Hahn, Springer-Verlag, Berlin, pp. 74-128.

TING, TSUAN W., Professor

Articles

Parabolic and pseudo-parabolic partial differential equations. *Journal of the Mathematical Society of Japan*, 21:440-53.

Elastic-plastic torsion problem III. *Archive Rational Mechanics and Analysis*, 34:228-44.

Elastic-plastic torsion of convex cylindrical bars. *Journal of Mathematics and Mechanics*, 19:531-51.

TONDEUR, PHILIPPE M., Associate

Professor

Books

Introduction to Lie groups and transformation groups. Springer-Verlag, Berlin, Heidelberg, New York, Lecture Notes 7, Second Edition (revised), 176 pp.

Articles

Varietes plates. *Revue Roumaine des Mathématiques Pures et Appliquées*, 13:1035-37.

With F. W. Kamber

Flat manifolds with parallel torsion. *Journal of Differential Geometry*, 2:385-89.

TRJITZINSKY, WALDEMAR J., Professor

Emeritus

Articles

Tollalisation abstraites dans les espaces vectoriels. *Annali di Matematica*, 82:275-80.

UHL, J. JERRY, JR., Assistant Professor

Articles

The Radon-Nikodym theorem and the mean convergence of Banach space valued martingales. *Proceedings of the American Mathematical Society*, 21, 1:139-44.

Martingales of vector valued set functions. *Pacific Journal of Mathematics*, 30, 2:533-48.

The range of a vector-valued measure. *Proceedings of the American Mathematical Society*, 23, 1:158-63.

Applications of Radon-Nikodym theorems to martingales of vector valued functions. *Bulletin of the American Mathematical Society*, 75, 4:840-42.

Compact operators on Orlicz spaces. *Rendiconti del Seminario Matematico dell'università di Padova*, 42:209-20.

WALTER, JOHN H., Professor

Articles

The characterization of finite groups with abelian Sylow 2-subgroups. *Annals of Mathematics*, 89:405-514.

Reviews

Endliche gruppen, by Bertram Huppert. In *Mathematical Reviews*, 37:302-03.

WEICHSEL, PAUL M., Associate Professor

Articles

Basic p -groups. *Journal of Algebra*, 11, 3: 331-37.

WOOD, GEOFFREY V., Visiting Lecturer

Articles

S-rings on compact groups. *Proceedings of the London Mathematical Society*, 19:481-92.

ZVENGROWSKI, PETER D., Assistant Professor

Articles

Canonical vector fields on spheres. *Commentarii Mathematici Helvetici*, 4:341-47.

DOCTORAL DISSERTATIONS

Arnold, David M. (J. Rotman, Adviser), Torsion free modules of finite rank over a discrete valuation ring.

Ballew, David W. (I. Reiner, Adviser), The module index, projective modules and invertible ideals.

Case, John W. (T. G. McLaughlin, Adviser), Enumeration reducibility and partial degrees.

Hale, Mark P., Jr. (M. Suzuki, Adviser), On simple groups related to Zassenhaus groups.

Hansen, Lowell J. (M. H. Heins, Adviser), The Hardy number of a region.

Heath, David C. (F. B. Knight, Adviser), Probabilistic analysis of hyperbolic systems of partial differential equations.

Jacobs, Harold (M. M. Day, Adviser), Ordered topological tensor products.

Jacobs, John B. (K. T. Chen and R. E. Block, Advisers), On the classification of simple Lie algebras of prime characteristic.

Johnson, Jerry A. (D. R. Sherbert and M. M. Day, Advisers), Banach spaces of Lipschitz functions and vector-valued Lipschitz functions.

Joshi, Padmini T. (P. T. Bateman, Adviser), The size of $L(1, \chi)$ for real non-principal residue characters χ with prime modulus.

Lamb, Charles W. (J. L. Doob, Adviser), Boundary theory for Markov chains.

Miller, Charles F., III. (W. W. Boone, Adviser), On group-theoretic decision problems and their classification.

Morley, Larry J. (I. Reiner and P. M. Weichsel, Advisers), Bounds for the class of nilpotent wreath products.

Papas, Theodore T. (H. Osborn, Adviser), Acyclic models and fibrations.

Schneider, Ross N. (F. E. Hohn, Adviser), A decomposition of the automorphism group of an autonomous linear sequential machine.

Shepard, Clarence D. (D. E. Muller, Adviser), Languages in general algebra.

Sher, Kenneth D. (R. G. Langebartel, Adviser), Gravity waves in a viscous atmosphere and multiple asymptotic expansions.

Stanci, Mildred L. (S. S. Cairns, Adviser), Smooth isotopies of manifolds surrounding polyhedra.

Thompson, Mary E. B. (J. H. Doob, Adviser), Some aspects of optimal stopping theory.

Van Osdol, Donovan H. (J. W. Gray, Adviser), Some applications of triples to sheaf theory.

Wong, Chi S. (M. M. Day, Adviser), Fixed point theorems for nonexpansive mappings.

MECHANICAL AND INDUSTRIAL ENGINEERING

ADDY, ALVA L., Associate Professor

Bulletins and Technical Reports

Detailed analyses for the base-pressure programs (TSABPP-1, 2), Report No. RD-TN-69-7, U. S. Army Missile Command, Redstone Arsenal, Alabama, 62 pp.

Analysis of the axisymmetric base-pressure and base-temperature problem with supersonic interacting freestream-nozzle flows based on the flow model of Korst, and others, Part I: A computer program and representative results for cylindrical afterbodies, Report No. RD-TR-69-12, U. S. Army Missile Command, Redstone Arsenal, Alabama, 94 pp.

Analysis of the axisymmetric base-pressure and base-temperature problem with supersonic interacting freestream-nozzle flows based on the flow model of Korst, et al., Part II: A comparison and correlation for cylindrical afterbodies, Report No. RD-TR-69-13, U. S. Army Missile Command, Redstone Arsenal, Alabama, 55 pp.

BARDES, BRUCE P., Assistant Professor

Bulletins and Technical Reports

Mechanism of fragmentation of silico-manganese steels, Report R-1918, U. S. Army Frankford Arsenal, Philadelphia, 45 pp.

CHAO, BEL-TSE, Professor

Books Edited

Advanced heat transfer, University of Illinois Press, Urbana, 459 pp.

Articles

Transient heat and mass transfer to a translating droplet. *Transactions ASME, Journal Heat Transfer*, 91, 2:273-81.

With W. L. Chow

Slip flow past a semi-infinite flat plate. Advances in Applied Mechanics, Supplement 5, v. 1. In *Proceedings of 6th international symposium on rarefied gas dynamics*, Academic Press, Inc., New York, 5, 1:441-50.

CHATO, JOHN C., Professor

Articles

Heat transfer in bioengineering. In *Advanced heat transfer*, ed. by B. T. Chao, University of Illinois Press, Urbana, pp. 395-414.

Combined free and forced convection flows in channels. *Ibid.*, pp. 439-59.

With B. A. Hertig

Regulation of thermal sweating in EVA space suits. *Proceedings Symposium on Individual Cooling*, Kansas State University, Manhattan, pp. 78-91.

With J. H. Streckert

Performance of a wick-limited heat pipe. ASME Paper No. 69-HT-20, ASME-AIChE Heat Transactions Conference, Minneapolis, 9 pp.

CHOW, WEN-LUNG, Professor

Articles

With B. T. Chao

Slip flow past a semi-infinite flat plate. Advances in Applied Mechanics, Supplement 5, vol. 1. In *Proceedings of 6th international symposium on rarefied gas dynamics*, Academic Press Inc., New York, pp. 441-50.

Bulletins and Technical Reports

Fluid dynamic problems associated with exhaust systems. Lecture Notes, Advanced Air-Breathing Propulsion Systems and Technology, University of Tennessee Space Institute, Tullahoma, pp. 1-79.

With K. Kasza

Low speed slip flows under the influence of a pressure gradient. METN-394-2, Department of Mechanical Engineering, University of Illinois, 53 pp.

DOYLE, LAWRENCE E., Professor

Books

With C. A. Keyser, J. L. Leach, G. F. Schrader, M. B. Singer

Manufacturing processes and materials for engineers (2nd ed.) Prentice-Hall, Inc., Englewood Cliffs, New Jersey. 860 pp.

HARRIS, WARREN S., Professor

Bulletins and Technical Reports

Controls for zoned hydronic systems, Research Series I-B-R-7. University of Illinois, Urbana, 24 pp.

HERING, ROBERT G., Professor

Articles

Selected topics on radiative heat transfer. In *Advanced heat transfer*, ed. by B. T. Chao, University of Illinois Press, Urbana, pp. 75-154.

With T. F. Smith

Surface roughness effects on equilibrium temperature. *Journal of Spacecraft and Rockets*, 6, 8:955-57.

Surface roughness effects on radiant heat transfer. *Ibid.*, 12:1465-66.

Apparent radiation properties of a rough surface. *American Institute of Aeronautics and Astronautics*, Publication No. 69-22, 11 pp.

With K. K. Prasad

Transient radiative transfer in a plane layer. *International Journal of Heat and Mass Transfer*, 12, 10:1331-37.

HERTIG, BRUCE A., Associate Professor

Articles

With J. C. Chato

Regulation of thermal sweating in EVA space suits. *Proceedings of Symposium on Individual Cooling*, Kansas State University, Manhattan, pp. 78-91.

Reviews

Physiology of heat regulation and the science of clothing, by L. H. Newburgh. *Journal of Occupational Medicine*, 11:100.

KLEIN, RICHARD E., Assistant Professor

Articles

Observability: it's role in control and estimation theory. In *Proceedings of the seventh annual Allerton Conference on circuit and system theory*, University of Illinois, IEEE Catalog No. 69C48-CT, pp. 23-31.

With R. E. Goodson

Distributed system observability and its role in closed-loop control formulations. *Proceedings of the Second Hawaii International Conference on System Sciences*, University of Hawaii, Honolulu, pp. 293-96.

A definition and some results for distributed system observability. *Preprints of 1969 Joint Automatic Control Conference*, University of Colorado, Boulder, pp. 710-18.

KONZO, SEICHI, Professor and Associate Head of Department

Articles

With F. C. Hayes

Investigation of air flow in branch take-offs with the use of a water table. *Journal American Society of Heating, Refrigerating and Air Conditioning Engineers*, 4:3.1-3.12.

KORST, HELMUT H., Professor and Head of Department

Articles

Dynamics and thermodynamics of separated flows. *Proceedings, 1969 International Seminar—Heat and Mass Transfer in Flows with Separated Regions*, Herceg-Novi, Yugoslavia, 96 pp., 29 figures.

With R. A. White

Divergence losses for noncircular C-D nozzles based on source flow. *Journal of Spacecraft and Rockets*, 6, 5:637-39.

Bulletins and Technical Reports

Experimental evaluation of friction drag characteristics for tube walls at transonic and supersonic free stream velocities. Advanced Technical Projects Department, Rocketdyne LAP, 25 pp., 16 figures.

Drag modification for bodies located within an induced flow field. McDonnell Douglas Aircraft Co., Report EN 732, 18 pp., 6 figures.

With D. C. Will, D. R. Bristow

Consideration of viscous flow phenomena affecting transonic high lift airfoil performance. Report 6430, McDonnell Douglas Aircraft Co.

LARSON, CARL S., Assistant Professor

Articles

With R. F. Timm

The simulation of constrained motion for continuous system kinematic analysis. *Transactions of Simulation Council*, pp. 1-9.

The simulation of constrained motion for continuous system dynamic analysis. *Ibid.*, pp. 1-14.

LEACH, JAMES L., Professor

Books

With L. E. Doyle, C. A. Keyser,
G. F. Schrader, M. B. Singer

Manufacturing processes and materials for engineers (2nd ed.). Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 860 pp.

MORRISON, FRANK A., JR., Assistant Professor

Articles

Transient electrophoresis of a dielectric sphere. *Journal of Colloid and Interface Science*, 29, 4:687-91.

Generalized dimensional analysis and similarity analyses. *Bulletin of Mechanical Engineering Education*, 8:289-300.

Electrostatic contribution to the random motion of a particulate system. *Industrial and Engineering Chemistry Fundamentals*, 8: 594-95.

With J. F. Osterle

A unified treatment of the thermodynamics of sinusoidal steady-state energy conversion. *Energy Conversion*, 9:7-12.

Reciprocal relations and time dependent processes. *Bulletin of Mechanical Engineering Education*, 7:353-60.

Reviews

Physics of negative viscosity phenomena by V. P. Starr. *Applied Mechanics Reviews*, 22, 8:949.

OFFNER, DAVID H., Associate Professor

Articles

Generalizing the analysis of shoe-type brake-clutch systems. *Journal of Engineering for Industry*, 91, 3:694-701.

Ideobics: a creative conditioning program. *Engineering Education*, 60, 2:139-40.

PETRIE, THOMAS W., Assistant Professor

Articles

With E. Pfender

A sweeping wire probe for the study of local heat transfer in plasmas. *Progress in Heat and Mass Transfer*, vol. 2, ed. by Irvine, Ibe, Hartnett and Goldstein, Pergamon Press, Oxford, pp. 459-74.

RADZIMOVSKY, EUGENE I., Professor

Articles

Effectiveness of dynamic face seal together with pressure equalizing device for rotary drill bits under high pressure conditions. ASME 23rd Annual Petroleum Mechanical Engineering Conference, Dallas, p. 7. 1968.

With D. H. Rimbey

The influence of fretting corrosion on fatigue strength of structural steel subjected to asymmetrical load cycles. *Development in Mechanics*, vol. 5, *Proceedings of the 11th Midwestern Mechanics Conference*, Iowa State University Press, Ames, pp. 761-79.

Fatigue strength of carbon steel subjected to fluctuating axial load and fretting corrosion. *Wissenschaftliche Mitteilungen, Ukrainisches Technisch-wirtschaftliches Institut*, XVI (XIX), Munchen, West Germany, pp. 3-24.

With M. M. Mamoun

Effect of axial vibrations on frictional losses in gear systems. International ASME Vibration Conference, Philadelphia, ASME Publication 69-VIBR-15, p. 8.

With A. O. Lebeck

The synthesis of tooth profile shapes and spur gears of high load capacity. ASME Publications 69-WA/DE-11, 90th Winter Annual Meeting, Los Angeles, California. Transactions of the ASME, *Journal of Engineering for Industry*, 9 pp.

SINGER, MORSE B., Instructor

Books

With L. E. Doyle, C. A. Keyser, J. L. Leach,
G. F. Schrader

Manufacturing processes and materials for engineers (2nd ed.). Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 860 pp.

SOO, SHAO L., Professor

Articles

Heat transfer processes of particulate suspensions. In *Advanced heat transfer*, ed. by B. T. Chao, University of Illinois Press, Urbana, pp. 415-37.

Pipe flow of suspensions. *Applied Scientific Research*, 21, 68-84.

Electrohydrodynamic jets. Developments in Mechanics, *Proceedings 11th Midwestern Mechanics Conference*, Iowa State University Press, Ames, 5:215-24.

With G. M. Colver

Calorelectric effect in a graphite-oxygen flame. *Proceedings 12th International Symposium on Combustion*, Combustion Institute, pp. 3-7.

With J. J. Stukel

Turbulent flow of a suspension into a channel. *Journal of Powder Technology*, 2, 5: 278-89.

With O. E. Ramadan

Electrohydrodynamic secondary flow. *Physics of Fluids*, 12, 9:1943-45.

With J. J. Stukel, J. M. Hughes

Measurement of mass flow and density of aerosols in transfer. *Environmental Science and Technology, Industrial Engineering Chemistry*, 3, 4:386-93.

Bulletins and Technical Reports

Uniform end interval method of computing one-dimensional transient flow. Society of Automotive Engineers Paper No. 69-0465.

With O. E. Ramadan, J. J. Stukel

A study of the effects of electric wind in an electrostatic precipitator. Paper No. 69-1, 62nd Annual Meeting, Air Pollution Control Association, New York.

Reviews

Thermodynamics for scientists and engineers, by S. S. Penner. *Applied Mechanics Review*, 21, 12:1281-82. 1968.

Thermal conductivity. *Proceedings 8th Conference*, Purdue University, ed. by C. Y. Ho and R. E. Taylor. *Applied Mechanics Review*, 22, 12:Rev. 9802.

STOECKER, WILBERT F., Professor

Books Edited

Proposed procedures for simulating the performance of components and systems for energy calculations. American Society of Heating, Refrigerating and Air Conditioning Engineers, New York, 77 pp.

Articles

With F. C. Hayes

Heat transfer characteristics of the air curtain. *Transactions ASHRAE* 75, Part II, III.5.1-69.

Design data for air curtains. *Transactions ASHRAE*, 75, Part II, III.5.1-69.

STUKEL, JAMES J., Assistant Professor

Articles

With S. L. Soo

Turbulent flow of a suspension into a channel, *Journal of Powder Technology*, 2, 5: 278-89.

With S. L. Soo, J. M. Hughes

Measurement of mass flow and density of aerosols in transfer. *Environmental Science and Technology, Industrial Engineering Chemistry*, 3, 4:386-93.

With J. C. Haas

Determination of the density of fly ash suspensions. Paper No. 69-60, Air Pollution Control Association Meeting, New York.

Bulletins and Technical Reports

With O. E. Ramadan, S. L. Soo

A study of the effects of electric wind in an electrostatic precipitator. Paper No. 69-1, 62nd Annual Meeting, Air Pollution Control Association, New York.

TRIGGER, KENNETH J., Professor

Articles

With S. Ramalingam, B. F. von Turkovich

Metal cutting research — some micro aspects. *Proceedings of Interamerican Conference on Materials Technology*, 1968, San Antonio, Texas, pp. 457-72.

VON TURKOVICH, BRANIMIR F.,

Associate Professor

Articles

With G. F. Micheletti

Flow zone models in metal cutting. Advances in machine tool design and research, *Proceedings of the 9th International M.T.D.R. Conference*, Birmingham, G. B., 1968, Pergamon Press, Oxford, New York, pp. 1073-80.

With S. Calvo

Some applications of physical metallurgy in metal cutting. *Ibid.*, pp. 1051-71.

With G. F. Micheletti, S. Rossetto

Dinamometro piezoelettrico a tre componenti. *Atte Rassegna Tecnica, Società degli Ingegneri e Architetti di Torino, New Series*, 23, 2:3-7.

With K. J. Trigger, S. Ramalingam

Metal cutting research — some micro aspects. *Proceedings of Interamerican Conference on Materials Technology*, 1968. San Antonio, Texas, pp. 457-72.

WALLHAUS, ROBERT A., Assistant

Professor

Articles

Modeling for higher education administration and management. *Management information systems in higher education: the state of the art*, ed. by Charles B. Johnson and William G. Katzenmeyer, Duke University Press, Durham, North Carolina, pp. 125-44.

WHITE, ROBERT A., Associate Professor

Articles

With H. H. Korst

Divergence losses for noncircular C-D nozzles, based on source flow. *Journal of Spacecraft and Rockets*, 6, 5:637-39.

DOCTORAL DISSERTATIONS

Black, Jay T. (B. F. von Turkovich, Adviser), Plastic deformation in ultramicrotomy of copper and aluminum.

Buchholz, Eugene K. (W. L. Hull, Adviser),

Experimental investigation of the heat release in a turbocharged after-cooled prechamber diesel engine.

Chen, James L. (B. T. Chao, Adviser), Thermal response behavior of laminar boundary layer in wedge flow.

Cheng, Lung (S. L. Soo, Adviser), Electrostatic probes for coal-air suspensions.

Cohen, Claudio. (R. E. Machel, Adviser), An investigation of the geometry of subspaces for some multivariate statistical models.

Colburn, Stephen. (S. L. Soo, Adviser), Measurement of temperature profiles in an ionized gas by light beam deflection method.

Colver, Gerald M. (S. L. Soo, Adviser), Non-equilibrium transport properties of nitrogen.

Eilers, Robert E. (W. L. Chow, Adviser), Hypersonic rarefied gas flow past two-dimensional slender bodies.

Hahn, William F. (E. I. Radizmovsky, Adviser), Study of instantaneous load to which gear teeth are subjected.

Lee, Yong N. (S. L. Soo, Adviser), Turbulent jet of a charged suspension.

Mamoun, Michael M. (E. I. Radizmovsky, Adviser), The influence of axial vibrations upon the energy losses and efficiency of spur gear systems.

McGregor, Otis W., Jr. (H. H. Korst, Adviser), Aerodynamic drag of two-dimensional rectangular notches in transonic and supersonic turbulent flow (with emphasis on the effects of self-induced pressure oscillations).

Myronuk, Donald J. (S. L. Soo, Adviser), Properties of free jets of ionized nitrogen.

Ramadan, Omar E. (S. L. Soo, Adviser), Electrohydrodynamic secondary flow.

Weinmann, Klaus J. (B. F. von Turkovich, Adviser), Incipient plastic deformation in orthogonal cutting of 70/30 brass.

Wollersheim, David E. (W. L. Chow, Adviser), Two-dimensional supersonic asymmetric flow between parallel symmetric bounding walls.

METALLURGY AND MINING
ENGINEERING

ALTSTETTER, CARL J., Associate Professor

Articles

With E. deLamotte, Y. Huang

The effect of zirconium on the thermodynamic properties of Nb-N alloys. In *Physical metallurgy of refractory metals, IV*, Gordon and Breach, New York, p. 283.

With E. deLamotte

Transformation in stressed cobalt-nickel crystals. *Proceedings of the Manchester Conference on Phase Transformations*, Institute of Metals, London, p. 189.

Transformation strain in stressed cobalt-nickel single crystals. *Transactions of the Metallurgical Society of the American Institute of Mining, Metallurgical, and Petroleum Engineers*, 245:651.

BARDES, BRUCE P., Assistant Professor

See Mechanical Engineering.

BECK, PAUL A., Professor

Articles

Close-packed ordered alloys. In *Advances in X-ray analysis*, 12, ed. by Barrett, Newkirk, and Mallett, Plenum Press, New York, pp. 1-21.

With A. E. Dwight

Occurrence of CsCl-type phases and of related distorted structures in alloys of transition metals. *Transactions of the American Institute of Mining, Metallurgical, and Petroleum Engineers*, 245:389-90.

With W. Jeitschko, A. G. Jordan

V and E phases in ternary systems with transition metals and silicon or germanium. *Transactions of the American Institute of Mining, Metallurgical, and Petroleum Engineers*, 245:335-39.

With C. G. Robbins, H. Claus

Transition from ferromagnetism to paramagnetism in Ni-Cu alloys. *Journal of Applied Physics*, 40:2269-73.

Magnetism in Ni-Cu alloys. *Physical Review Letters*, 22:1307-10.

CLAUS, HELMUT, Assistant Professor

Articles

The electronic specific heat of h.c.p. Fe-Ru alloys. *Journal of Physics and Chemistry of Solids*, 30:782.

With E. E. Barton, Jr.

Deviations from Curie-Weiss law in the magnetic susceptibility of dilute magnetic alloys. *Physics Letters*, 30A:502-03.

METZGER, MARVIN, Professor

Articles

With O. P. Arora, J. A. Isasi

Protective films and structure dependent corrosion in aluminum. *Corrosion*, 25, 11:445-54.

With J. C. Bilello

Microyielding in polycrystalline copper. *Transactions of the Metallurgical Society of the American Institute of Mining, Metallurgical, and Petroleum Engineers*, 245:2279-84.

RISSE, HUBERT E., Professor

Articles

Coal strip mining — is it reaching a peak? *Transactions of The Society of Mining Engineers*, 244:245-49.

ROWLAND, THEODORE J., Professor

Articles

Nuclear quadrupole resonance. In *Encyclopaedic dictionary of physics*, Supplementary vol. 4, ed. by Thewlis, Pergamon Press, Oxford, pp. 300-01.

With F. Y. Fradin

Nuclear magnetic relaxation and atomic diffusion in aluminum alloys. *The Physical Review*, 182:760.

SCHEIDEGGER, ADRIAN E., Professor

Articles

Stream orders. In *The encyclopedia of geomorphology*, ed. by Rh. Fairbridge, Reinhold, New York, pp. 1064-66. 1968.

Microcanonical ensembles of river nets. *Bulletin of the International Association of Scientific Hydrology*, 13, 4:87-90. 1968.

Stability conditions for displacement processes in porous media. *Canadian Journal of Physics*, 47, 2:209-14.

With R. W. Fairbridge, S. A. Schumm

Badlands. In *The encyclopedia of geomorphology*, ed. by Rh. Fairbridge, Reinhold, New York, pp. 43-48. 1968.

With G. Ranalli

Topological significance of stream labeling methods. *Bulletin of the International As-*

sociation of Scientific Hydrology, 13, 4:77-85. 1968.

An application of isallo stress theory to a surface fracture analysis in the Larderello area in Italy. *Pure and Applied Geophysics*, 73:134-42.

With R. E. Ranken

An application of isallo stress analysis to areas in Tanzania, Texas, and Alaska. *Ibid.*, 75:102-16.

Isallo stress analysis of the Rat Islands (Alaska) earthquake sequence. *Annali di Geofisica, Roma*, 21, 4:423-37.

With K. H. Liao

Branching-type models of flow through porous media. *Bulletin of the International Association of Scientific Hydrology*, 14, 4:137-45.

Theoretical stream lengths and drainage areas in Horton nets of various orders. *Water Resources Research*, 5, 3:744-46.

With P. E. Potter

Textural studies of grading: volcanic ash falls. *Sedimentology*, 11:163-70.

VON MEERWALL, ERNST D., Research Associate

Articles

With D. S. Schreiber

Knight shifts of ^{51}V and ^{55}Mn in vanadium-manganese alloys. *Physics Letters*, 28A, 7:495-96

WAYMAN, C. MARVIN, Professor

Books

Introduction to the crystallography of martensitic transformations (Japanese edition). The Macmillan Company, New York, pp. 1-199.

Articles

With A. Chaudhuri, H. M. Clark

The effect of stress on the $\beta' \rightarrow \xi^0$ transformation in equiatomic AgZn. *Acta Metallurgica*, 17:735-44.

With H. M. Clark, E. A. Merriman

Morphological studies of the $\beta \rightarrow \xi^0$ and $\beta' \rightarrow \xi^0$ transformations in equiatomic AgZn. *The Mechanism of Phase Transformations in Crystalline Solids*, Institute of Metals Monograph #33, London, pp. 302-04.

Some characteristics of the $\beta \rightarrow \xi^0$ and $\beta' \rightarrow \xi^0$ transformations in equiatomic AgZn. *Acta Metallurgica*, 17:719-34.

With Y. Fukano

On the shapes of nuclei of evaporated f.c.c. metals. *Journal of Applied Physics*, 40, 4:1656-64.

With M. Oka

Electron metallography of the substructure of martensite in high carbon steels. *Transactions of the American Society for Metals*, 62:370-79.

On an unusual type of substructure in high carbon ferrous martensites. *Transactions of the American Society for Metals*, 62:820-27.

With G. R. Srinivasan

On the problem of the definitions and mechanisms of the bainite reaction. *The Mechanism of Phase Transformations in Crystalline Solids*, Institute of Metals Monograph #33, London, pp. 310-11.

With D. D. Thornburg

Quantum and classical size effects in the thermoelectric power of thin bismuth films. *Philosophical Magazine*, 20, 168:1153.

The thermoelectric power of Au-Ni thin film thermocouples. *Journal of Applied Physics*, 40:3007-13.

WERT, CHARLES A., Professor and
Department Head

Articles

With C. Dollins

Precipitation of nitrogen on dislocations in niobium. *Acta Metallurgica*, 17:711-18.

With L. Gray

Mass absorption coefficients and quantitative microanalysis of refractory metal carbides. *Advances in X-ray Analysis*, 12:563-80.

DOCTORAL DISSERTATIONS

Barton, Eugene E., Jr. (P. A. Beck, Adviser),
The magnetic susceptibility of dilute alloys of chromium and manganese in certain transition metals.

Fishman, Steven G. (D. S. Lieberman, Adviser),
Isotope effect and diffusivity measurements in equi-atomic iron-cobalt alloys.

Gray, Lawrence J. (C. A. Wert, Adviser),
X-ray mass absorption coefficients and quantitative microanalysis of metallurgical systems, including refractory metal-interstitial compounds.

Hendrickson, Lester E. (M. Metzger, Adviser),
Sub-grain boundary corrosion in aluminum containing small amounts of iron and copper.

Jordan, Albert G. (P. A. Beck, Adviser),
Magnetic clusters in copper-cobalt alloys.

Lankford, James, Jr. (M. Metzger, Adviser),
Microstrain study of the effect of strain hardening in copper single crystals.

Liao, Kao H. (A. E. Scheidegger, Adviser),
Statistical models of porous media and other hydrological systems.

Rashid, Moinuddin S. (C. J. Altstetter, Adviser),
X-ray study of transformation-induced defects in cobalt-nickel single crystals.

Robbins, Charles G. (P. A. Beck, Adviser),
Magnetism in nickel-copper alloys.

MICROBIOLOGY

BRYANT, MARVIN P., Professor
See Dairy Science.

CAMPBELL, L. LEON, Professor and
Head of Department

Books Edited

Spores IV. American Society for Microbiology, Bethesda, Maryland, 335 pp.

Articles

With A. Bassel

Surface structure of *Bacillus stearothermophilus* ribosomes. *Journal of Bacteriology*, 98:811-15.

With H. Drucker

Electrophoretic and immunological differences between the cytochrome *cs* of *Desulfovibrio desulfuricans* and that of *Desulfovibrio vulgaris*. *Journal of Bacteriology*, 100:358-64.

With J. Farrell

Thermophilic bacteria and bacteriophages. *Advances in Microbial Physiology*, 3:83-109.

With J. A. Murphy

Surface features of *Bacillus polymyxa* spores as revealed by scanning electron microscopy. *Journal of Bacteriology*, 98:737-43.

With J. R. Postgate

Revision of the holotype strain of *Desulfotomaculum ruminis*. *International Journal of Systematic Bacteriology*, 19:139-40.

With S. B. Ansley, P. S. Sypherd

Isolation and amino acid composition of ribosomal proteins from *Bacillus stearothermophilus*. *Journal of Bacteriology*, 98:568-72.

DeMOSS, RALPH D., Professor

Articles

With K. Moser

N-Acetylation of glucosamine-6-phosphate in *Leuconostoc mesenteroides*. *Ibid.*, pp. 190-97.

Tryptophanase in diverse bacterial species. *Ibid.*, pp. 167-71.

DRAKE, JOHN W., Professor

Articles

Mutagenic mechanisms. *Annual Review of Genetics*, 3:247-68.

With E. F. Allen

Antimutagenic DNA polymerases of bacteriophage T4. *Cold Spring Harbor Symposia on Quantitative Biology*, 33:339-44. 1968.

With E. F. Allen, S. A. Forsberg,

R.-M. Preparata, E. O. Greening

Genetic control of mutation rates in bacteriophage T4. *Nature*, 221:1128-32.

Comparative rates of spontaneous mutation. *Ibid.*, p. 1132.

KALLIO, REINO E., Professor and Director of
School of Life Sciences

Articles

Microbial transformations of alkanes. In *Fermentation advances*, ed. by Perlman, Academic Press, New York, pp. 635-50.

KAPLAN, SAMUEL, Assistant Professor

Articles

Correlation between the rate of ribonucleic acid synthesis and the level of valyl transfer ribonucleic acid in mutants of *Escherichia coli*. *Journal of Bacteriology*, 98:579-86.

Chloramphenicol and the stimulation of ribonucleic acid synthesis in *Escherichia coli*. *Ibid.*, pp. 587-92.

With D. Anderson

Transduction of nonselectable temperature-sensitive markers. *Ibid.*, 97:973-74.

MEYER, RICHARD C., Associate Professor

See Veterinary Medicine.

ORDAL, Z. JOHN, Professor

See Food Science.

PFENNIG, NORBERT, Visiting Lecturer

Articles

Rhodospseudomonas acidophila, sp. n., a new species of the budding purple nonsulfur bacteria. *Journal of Bacteriology*, 99:597-602.

SIMPSON, FRED J., Visiting Professor

Articles

With G. A. Jones, E. A. Wolin

Anaerobic degradation of some bioflavonoids by microflora of the rumen. *Canadian Journal of Microbiology*, 15:972-74.

SPIEGELMAN, SOL, Professor

Articles

Replication of viral RNA. In *Exploitable molecular mechanisms and neoplasia*, Williams and Wilkins, Baltimore, pp. 7-54. 1968.

With R. Levisohn

Further extracellular Darwinian experiments with replicating RNA molecules: diverse variants isolated under different selective conditions. *Proceedings of the National Academy of Sciences*, 63:805-11.

With I. Haruna, N. R. Pace

Studies on the synthesis of a viral nucleic acid with a purified enzyme. In *Nucleic acid metabolism cell differentiation and cancer growth*, ed. by Cowdry and Seno, 2nd International Symposium for Cellular Chemistry, Ohtsu, Japan, pp. 3-28. 1968.

With N. R. Pace, D. H. L. Bishop, D. R. Mills, M. M. Taylor

In vitro replication of viral RNA. *Archives Roumaines de Pathologie Experimentale et de Microbiologie*, 27:519-40. 1968.

With N. R. Pace, D. R. Mills, R. Levisohn, T. S. Eikhom, and others

Chemical and mutational studies of a replicating RNA molecule. *Proceedings of the XII International Congress of Genetics*, 3:127-54.

SPYHERD, PAUL S., Associate Professor

Articles

Amino acid differences in a 30S ribosomal protein from two strains of *Escherichia coli*. *Journal of Bacteriology*, 99:379-82.

With B. C. Strnad

Unique protein moieties for 30S and 50S ribosomes of *Escherichia coli*. *Ibid.*, 98:1080-86.

With S. B. Ansley, L. L. Campbell

Isolation and amino acid composition of ribosomal proteins from *Bacillus stearothermophilus*. *Ibid.*, pp. 568-72.

With D. M. O'Neil, L. S. Baron

Chromosomal location of ribosomal protein cistrons determined by intergeneric bacterial mating. *Ibid.*, 99:242-47.

With D. Apirion, D. Schlessinger, S. Phillips

Escherichia coli: reversion from streptomycin dependence, a mutation in a specific 30S ribosomal protein. *Journal of Molecular Biology*, 43:327-29.

VOSS, EDWARD W., JR., Assistant Professor

Articles

With J. S. Gallagher

Molecular weight of a purified chicken antibody. *Immunochemistry*, 6:199-206.

Binding properties of purified chicken antibody. *Ibid.*, pp. 573-85.

With T. A. McVeigh, Jr.

Properties of purified mouse homocytotropic antibody. *The Journal of Immunology*, 103:1349-55.

With K. Corley, L. H. Huang

Anti-hapten antibody induction with deoxyribonucleic acid carrier. *Immunochemistry*, 6:361-70.

With W. J. Russell, M. M. Sigel

Purification and binding properties of nurse shark antibody. *Biochemistry*, 8:4866-72.

With A. R. Smith, J. D. Lykins, M. Ristic

Identification of an antigen and specific antibody in the sera of chickens infected with *Plasmodium gallinaceum*. *The Journal of Immunology*, 103:6-14.

WILLIAMS, JUDITH O., USPHS Predoctoral Trainee

See Physiology and Biophysics.

WOESE, CARL R., Professor

Articles

The biological significance of the genetic code. In *Progress in molecular and subcellular biology*, ed. by Hahn, Springer-Verlag, New York, pp. 5-46.

Models for the evolution of codon assignments. *Journal of Molecular Biology*, 43:235-40.

With M. Bleyman

Characterization of the ribonucleic acid formed during germination of *Bacillus subtilis* spores. In *Spores IV*, ed. by Campbell, American Society for Microbiology, Bethesda, Maryland, pp. 223-34.

Ribosomal ribonucleic acid maturation during bacterial spore germination. *Journal of Bacteriology*, 97:27-31.

Transcriptional mapping, I. Introduction to the method and the use of actinomycin D as a transcriptional mapping agent. *Proceedings of the National Academy of Sciences*, 63:532-39.

With M. Kondo

Specificity of aminoacyl tRNA synthetases from *Escherichia coli* K12. *Biochemistry*, 8:4177-82.

With M. Bleyman, M. Kondo, N. Hecht

Transcriptional mapping: functional organization of the ribosomal and transfer ribonucleic acid cistrons in the *Bacillus subtilis* genome. *Journal of Bacteriology*, 99:535-43.

WOLFE, RALPH S., Professor

Articles

With A. M. Robertson

ATP requirement in methanogenesis in cell extracts of *Methanobacterium*. *Biochimica et Biophysica Acta*, 192:420-29.

With A. D. Tiwari, M. P. Bryant

A simple method for isolation of *Selenomonas ruminantium* and some nutritional characteristics of the species. *Journal of Dairy Science*, 52:2054-56.

WOLIN, MEYER J., Professor

See Dairy Science.

DOCTORAL DISSERTATIONS

Allen, Elizabeth F. (J. W. Drake, Adviser), Studies on mutants of the DNA polymerase gene of bacteriophage T4.

Anderson, Kenneth W. (P. S. Sypherd, Adviser), Polysome genesis: the physical and temporal relationship between transcription and translation in *Escherichia coli*.

Bojanowski, Robert J. (R. D. DeMoss, Adviser), Comparison of tryptophanases purified from *Sphaerophorus funduliformis* and *Sphaerophorus varius*.

Cowling, Frances M. (L. L. Campbell, Adviser), Purification and characterization of alkaline phosphatase of *Bacillus licheniformis*.

Haschke, Richard H. (L. L. Campbell, Adviser), Hydrogenase and thiosulfate reductase from *Desulfovibrio vulgaris*.

Horowitz, Aviva T. (S. Spiegelman, Adviser), Homology studies by molecular hybridization.

Koch, Robert E. (J. W. Drake, Adviser), The isolation and characterization of bacteriophage T4 base pair substitution mutations exhibiting extremely leaky phenotypes.

McNamara, Pamela D. (C. R. Woese, Adviser), Comparison of catalogues of purine-rich oligonucleotides from *Escherichia coli* and *Bacillus subtilis* ribosomal ribonucleic acids.

O'Neil, Sallie R. (R. D. DeMoss, Adviser), Specificity and properties of tryptophanase from *Bacillus alvei*.

Pace, Bernadette K. (L. L. Campbell, Adviser), Studies of thermal stabilities and RNA homologies of bacterial ribosomes.

Roth, Charles W. (R. D. DeMoss, Adviser), Physiological studies of tryptophan biosynthesis.

Saxinger, William C. (C. R. Woese, Adviser), Studies on interactions between nucleic acids and amino acids.

Shaw, Marlene V. (L. L. Campbell, Adviser), *In vivo* transcription and substructure of the thermophilic bacteriophage TP84.

Yu, Ming-Tsung (K. C. Atwood, Adviser), The genetic mapping of the ribosomal RNA cistrons in *Escherichia coli* K-12.

MUSIC

BEAUCHAMP, JAMES W., Assistant Professor

Books Edited

With H. F. Von Foerster

Music by computers. John Wiley & Sons, Inc., New York, 139 pp.

Articles

A computer system for time-variant harmonic analysis and synthesis of musical tones. In *Music by computers*, ed. by Von Foerster and Beauchamp, John Wiley & Sons, Inc., New York, pp. 19-62.

BEHAGUE, GERARD H., Assistant Professor

Reviews

Music in Aztec and Inca territory, by Robert Stevenson. *Musical Quarterly*, 55, 1:115-20.

Yearbook of Inter-American institute for musical research, ed. by Gilbert Chase. *Notes of Music Library Association*, 25, 3:493-94.

Carlos Seixias: 80 sonatas para instrumentos de tecla. *Ibid.*, pp. 587-89.

Luis Alvarez Pinto: te deum laudamus, ed. by Jaime Diniz. *Ibid.*, 26, 1:137-38.

BINKERD, GORDON W., Professor

Music

A Christmas caroll, for unaccompanied double chorus. Boosey & Hawkes, Inc., New York, 76 pp.

Jesus weeping, for unaccompanied double chorus. *Ibid.*, 24 pp.

And viva sweet love, for mens' chorus and piano four-hands. *Ibid.*, 28 pp.

In a whispering gallery, for unaccompanied mixed chorus. *Ibid.*, 19 pp.

Memorial, for unaccompanied mixed chorus. *Ibid.*, 20 pp.

The work, for unaccompanied mixed chorus. *Ibid.*, 7 pp.

Salutis humanae sator, for unaccompanied mixed chorus. *Ibid.*, 11 pp.

We in this whirl are caught, for unaccompanied mixed chorus. *Ibid.*, 10 pp.

Somewhere I have never travelled, for mezzo-soprano and piano. *Ibid.*, 10 pp.

Concert set for piano solo. *Ibid.*, 14 pp.

Piano miscellany. *Ibid.*, 8 pp.

The young pianist. *Ibid.*, 16 pp.

Symphony #2, for orchestra. *Ibid.*, 78 pp.

Gradual and alleluia for the feast of St. Francis of Assisi, for womens' chorus or mens' chorus and organ. World Library of Sacred Music, Cincinnati, 12 pp.

BRUCE, NEELY, Instructor

Music

Three canons for marimba. Media Press, Champaign, Illinois, 6 pp.

Untitled piece no. 4 for trombone and piano. *Ibid.*, 8 pp.

COGGINS, WILLIS R., Associate Professor

Books

The alto saxophone soloist elementary. Belwin, Inc., New York, 20 pp.

The alto saxophone soloist with piano accompaniment elementary. *Ibid.*, 47 pp.

The tenor saxophone soloist elementary. *Ibid.*, 16 pp.

The tenor saxophone soloist with piano accompaniment elementary. *Ibid.*, 40 pp.

The baritone saxophone soloist elementary. *Ibid.*, 16 pp.

The baritone saxophone soloist with piano accompaniment elementary. *Ibid.*, 39 pp.

Studies and melodious etudes for alto saxophone elementary. *Ibid.*, 32 pp.

Studies and melodious etudes for tenor saxophone elementary. *Ibid.*, 32 pp.

Studies and melodious etudes for baritone saxophone elementary. *Ibid.*, 32 pp.

With F. Weber

Alto saxophone student elementary. *Ibid.*, 40 pp.

Tenor saxophone student elementary. *Ibid.*, 40 pp.

Baritone saxophone student elementary. *Ibid.*, 40 pp.

DELANEY, CHARLES O., Professor

Books

Teacher's guide to the flute. Selmer, Inc., Elkhart, Indiana. 40 pp.

EDEFSEN, BLAINE E., Associate Professor

Books

With F. Weber

The oboe student. Belwin, Inc., New York, 40 pp.

Studies and melodious etudes for oboe. *Ibid.*, 32 pp.

Tunes for oboe technic. *Ibid.*, 32 pp.

The oboe soloist. *Ibid.*, 18 pp.

With R. Giralmo

The oboe soloist with piano accompaniment. *Ibid.*, 58 pp.

FREDRICKSON, L. THOMAS, Professor

Music

Music for the double bass alone. Theodore Presser Col, Bryn Mawr, Pennsylvania, 6 pp.

KELLMAN, HERBERT, Associate Professor

Articles

With C. Hamm

The musicological archive for Renaissance manuscript studies. *Fones Artis Musicae*, 3:148-49.

KOHUT, DANIEL L., Assistant Dean of Fine and Applied Arts and Assistant Professor

Reviews

Subject matter testing practices in state university music education curricula, by John

Justin Gray. *Council for Research in Music Education*, 19:34-38.

Music

Sailor's song from "Lyrical Pieces" by Grieg. Carlin Music Co., Oakhurst, California, 6 pp.

LONDON, EDWIN, Professor

Music

Trio for flute, clarinet, and piano. "In Memoriam 'Fats' Navarre." Revised with interpolations. MJQ Music, Inc., New York, 18 pp.

LYKE, JAMES B., Associate Professor

Books

With E. H. Hartline

Keyboard musicianship: group piano for adults, book one. Stipes Publishing Co., Champaign, Illinois, 200 pp.

Keyboard musicianship: group piano for adults, book two. *Ibid.*, 240 pp.

Articles

What should our piano minors study? *Music Educators Journal*, 56, 4:49.

Reviews

The piano major program at Ithaca college, with proposals for future development, by Georgia Ellen Nicklett. *Council for Research in Music Education*, 17:33-36.

NETTL, BRUNO, Professor

Articles

Musical areas reconsidered: a critique of North American Indian research. In *Essays in musicology in honor of Dragan Plamenac*, ed. by Gustave Reese and Robert J. Snow, University of Pittsburgh Press, Pittsburgh, pp. 181-89.

Mesto etnomuzikologije u Sad. *Zvuk*, 87-88: 478-81.

Studies in Blackfoot Indian musical culture, part III. *Ethnomusicology*, 12, 1:11-48.

Studies in Blackfoot Indian musical culture, part IV. *Ethnomusicology*, 12, 2:192-207.

Biography of a Blackfoot Indian singer. *Musical Quarterly*, 44, 2:199-207.

RINGER, ALEXANDER L., Professor

Articles

Cherubini's *Médée* and the spirit of French revolutionary opera. In *Essays in musicology in honor of Dragan Plamenac*, ed. by Reese and Snow, University of Pittsburgh Press, Pittsburgh, pp. 281-99.

Salomon Sulzer, Joseph Mainzer and the romantic a cappella movement. *Studia Musicologica*, 11:354-70.

ROLLAND, PAUL, Professor

Articles

The Urbana, Illinois, string research project. *American String Teacher*, 19, 1:25.

Innovations in string teaching. *Orchestra News*, 8, 2:6.

TEMPERLEY, NICHOLAS M., Associate Professor

Articles

Berlioz's use of the slur. *Music and Letters*, 50, 3:388-92.

Musical journalism in 1844. *Musical Times*, 110, 6:583-86.

Reviews

Francis Hopkinson and James Lyon, by Oscar Sonneck. *Musical Times*, 110, 5:493.

Portrait of Elgar, by Michael Kennedy. *Victorian Studies*, 13, 1:110-11.

The musical Wesleys, by Erik Routley. *Musical Times*, 110, 7:743-44.

ZIMMERMAN, MARILYN P., Visiting Associate Professor

Reviews

Music in Willa Cather's fiction, by Richard Giannone. *The Journal of Aesthetic Education*, 3, 1:138-40.

Music and people, by Ned Rorem. *Ibid.*, 3: 181-82.

Popular music, by John Rublowsky. *Ibid.*, p. 182.

A study in teaching musical style and form to elementary school children, by Robert J. Neidlinger. *Council for Research in Music Education*, 18:39-43.

DOCTORAL DISSERTATIONS

Brandvik, Paul A. (S. Goldthwaite, Adviser), Selected motets of Alessandro Scarlatti.

Foreman, Edward V. (S. Goldthwaite, Adviser), A comparison of selected Italian vocal tutors of the period circa 1550 to 1800.

Hough, Ronald A. (N. Temperley, Adviser), The organ works of Nicolas Lebègue.

Kumlien, Wendell C. (C. E. Hamm, Adviser), The sacred choral music of Charles Ives: a study in style development.

Laudon, Robert T. (A. L. Ringer, Adviser), Sources of the Wagnerian synthesis: a study of the Franco-German tradition in nineteenth-century opera.

Powell, Kenneth G. (N. Temperley, Adviser), The North German organ toccata (1650-1710).

Preston, Alan H. (S. Goldthwaite, Adviser), Sacred polyphony in Renaissance Verona: a liturgical and stylistic study.

Scholz, Robert V. (S. Goldthwaite, Adviser), 17th-century magnificats for the Lutheran service.

Sommers, Paul B. (S. Goldthwaite, Adviser), Faure and his songs: the relationship of text, melody and accompaniment.

Spinosa, Frank (A. L. Ringer, Adviser), Beethoven and Bartók: a comparative study of motivic techniques in the later Beethoven quartets and the six string quartets of Béla Bartók.

Van Nuys, Robert C. (S. Goldthwaite, Adviser), The history and nature of the trumpet as applied to the sonatas of Guiseppi Torelli.

Yenne, Vernon L. (S. Goldthwaite, Adviser), Three twentieth century English song composers: Peter Warlock, E. J. Moeran and John Ireland.

NATURAL HISTORY MUSEUM

HENRIKSEN, HARRY C., Curator of Exhibits

Articles

Cutting down the evolutionary tree. *Curator*, 11, 4:306-09.

In reply to Leavitt. *Museum News*, 47, 8:10.

HOFFMEISTER, DONALD F., Professor and Director

Articles

The first fifty years of the American Society of Mammalogists. *Journal of Mammalogy*, 50, 4:794-802.

The species problem in the *Thomomys bottae-Thomomys umbrinus* complex of pocket gophers in Arizona. *Contributions in Mam-*

malogy, University of Kansas Museum of Natural History, Miscellaneous Publication, 51:75-91.

A history of the American Society of Mammalogists. Special Publication of American Society of Mammalogists, American Museum of Natural History, 1969:8-15.

With S. W. Carothers

Mammals of Flagstaff, Arizona. *Plateau*, 41, 4:184-88.

NUCLEAR ENGINEERING

ADLER, FELIX T., Professor

See Physics.

ALLEN, ALFRED W., Professor

See Ceramic Engineering.

AXFORD, ROY A., Professor

Articles

Transient temperatures in reactor channels induced by simultaneous changes in the power level, the coolant speed, and the coolant inlet temperature. *Nuclear Engineering and Design*, 10:55-71.

With G. Saji

Space-time kinetics for heterogeneous reactor models. *Nuclear Science and Engineering*, 35:319-31.

BORESI, ARTHUR, P., Professor

See Theoretical and Applied Mechanics.

CHAO, BEI-TSE, Professor

See Mechanical Engineering.

CHILTON, ARTHUR B., Professor

Articles

With J. Diaz

Modeling relationships for radiation transport within ducts and other cavities in shields. *Nuclear Science and Engineering*, 35, 2: 283-85.

With Y. T. Song, C. M. Huddleston

Semiempirical formula for neutron albedo. *Nuclear Science and Engineering*, 35, 3: 401-05.

Neutron streaming through ducts. *Ibid.*, 38, 2:182-87.

Reviews

Mathematical theory of radiation dosimetry, by J. J. Fitzgerald, G. L. Brownell, and F. J. Mahoney. *Nuclear Applications*, 6, 2:179-81.

EWING, BENJAMIN B., Professor

See Civil Engineering.

GADDY, OSCAR L., Professor

See Electrical Engineering.

GOLDSTEIN, LADISLAS, Professor

See Electrical Engineering.

HANG, DANIEL F., Professor

Articles

Continuing education in nuclear engineering-progress and problems. *Transactions of American Nuclear Society*, 12, 2:435-36.

HENDRICKS, CHARLES D., Professor

See Electrical Engineering.

MILEY, GEORGE H., Professor

Articles

Direct energy conversion involving nuclear

radiation. *Proceedings of the Conference on Special Topics in Nuclear Education and Research*, U. S. Atomic Energy Commission, Conf-670846, CFSTI, Springfield, Virginia, pp. 171-207.

Preface: symposium on radiation chemical processing. *Nuclear Applications*, 6, 5: 423-24.

With J. E. Herceg

Characteristics of a low-voltage arc laser. *Journal of Applied Physics*, 40, 2:465-71.

With P. E. Thiess

An unified approach to two-region ionization-excitation density calculations. *Nuclear Applications*, 6, 5:434-51.

With H. A. Kurstedt, Jr.

On the roots and coefficients for the general solution of the reactor kinetics equations. *Nuclear Science and Engineering*, 38, 1: 80-82.

With C. F. Dewey, Jr.

A variable-spacing, vacuum-type thermionic diode. *Nuclear Applications*, 7, 6:584-98.

SCHILMOELLER, NEIL H., Assistant Professor

Articles

With D. White

Transient system for measurement of thermal properties of nuclear fuel powders of varying densities. In *Proceedings of the eighth conference on thermal conductivity*, ed. by C. Y. Ho and R. E. Taylor, Plenum Press, New York, pp. 857-71.

SOO, SHAO LEE, Professor

See Mechanical Engineering.

WEHRING, BERNARD W., Assistant Professor

Articles

With N. Tsoulfanidis, M. E. Wyman

The use of an analytical response function for unfolding beta spectra. *Nuclear Instruments and Methods*, 73, 1:98-102.

With A. B. Long, M. E. Wyman

Times of emission of K x rays from Cf-252 fission fragments of known mass. *The Physical Review*, 188, 4:1948-57.

With E. M. Bohn, M. E. Wyman

Prompt K x rays as a function of fragment mass and total kinetic energy in the thermal fission of U-235. *Ibid.*, pp. 1909-15.

WYMAN, MARVIN E., Professor and Chairman of Program

Articles

With N. Tsoulfanidis, B. W. Wehring

The use of an analytical response function for unfolding beta spectra. *Nuclear Instruments and Methods*, 73, 1:98-102.

With A. B. Long, B. W. Wehring

Times of emission of K x rays from Cf-252 fission fragments of known mass. *The Physical Review*, 188, 4:1948-57.

With E. M. Bohn, B. W. Wehring

Prompt K x rays as a function of fragment mass and total kinetic energy in the thermal fission of U-235. *Ibid.*, pp. 1909-15.

With R. E. Carter, R. G. Cochran, J. L. Meem, C. O. Muehlhause, J. J. O'Connor

A review of research reactor utilization. *Transactions of the American Nuclear Society*, Supplement to 12, p. 13.

DOCTORAL DISSERTATIONS

El-Saiedi, Ali F. I. (B. T. Chao, Adviser), The effect of electric fields on heat transfer in gas-solid suspensions flowing in rectangular channels.

Kanazawa, Richard M. (A. P. Borei, Adviser), Hydroelastic vibration of rods in parallel flow.

Leverenz, Donald J. (O. L. Gaddy, Adviser), A study of the sampling process in the DC biased dynamic crossed field electron multiplier.

Liu, Yiu-Sing (R. A. Axford, Adviser), An analytic method for the calculation of the space- and energy-dependent spectra and the integral parameters of thermal reactor lattices.

Long, Alexander B. (M. E. Wyman and B. W. Wehring, Advisers), Times of emission of K x rays from Cf²⁵² fission fragments of known mass.

Lussie, William G. (J. P. Hummel, Adviser), Studies of two-step Gamma-ray cascades in neutron capture reactions in a barium target.

Roussin, Robert W. (A. B. Chilton, Adviser), A study of the relationship between the neutron absorbed doses in an underground structure and in a semi-infinite medium.

NUTRITIONAL SCIENCES

DOCTORAL DISSERTATIONS

Chow, Ching-Kuang (H. H. Draper, Adviser), Studies on the assay, stability, antioxidant activity and oxidation products of tocopherols.

Findlay, Glen M. (H. H. Draper, Adviser), The metabolism of L¹⁴C-methyl linoleate hydroperoxide in the rabbit.

Jacob, Mary (R. M. Forbes, Adviser), The role of ground substance, thyroxine isomers and vitamin D in the renal calcification of magnesium deficiency.

O'Hea, Eugene K. (G. A. Leveille, Adviser), Lipogenesis and aspects of its regulation in the liver and adipose tissue of the chicken and pig.

PHILOSOPHY

CATON, CHARLES E., Professor

Articles

Epistemic qualifiers and English grammar. In *Studies in philosophical linguistics*, ed. by Wm. Todd, Great Expectations, Evanston, Illinois, pp. 17-54.

Reviews

Linguistics in philosophy by Zeno Vendler. *The Philosophical Review*, 78:518-21.

CHANDLER, HUGH S.

Articles

Shoemakers' arguments against Locke. *The Philosophical Quarterly*, 19, 76:263-65.

Butler on bodies. *American Philosophical Quarterly*, 6, 1:84-87.

Wiggins on identity. *Analysis*, 29, 5:173-74.

DIGGS, BERNARD J., Professor

Articles

A comment on "Some merits of one form of rule-utilitarianism." In *Readings in contemporary ethical theory*, ed. by Pahel and Schiller, Prentice-Hall, Englewood Cliffs, New Jersey, pp. 307-17.

Reviews

Avoidability and the contrary-to-fact condi-

tional in C. L. Stevenson and C. I. Lewis. *The Journal of Symbolic Logic*, 34, 3:500.
The grounds of moral judgment by G. R. Grice. *The Philosophical Review*, 78, 4: 543-46.

FABER, RICHARD N., Assistant Professor
Articles

Alston's theory of meaning. *The Philosophical Quarterly*, 19, 74:62-68.

FISCH, MAX H., Professor Emeritus

Articles

Vico and pragmatism. In *Giambattista Vico: an international symposium*, ed. by Tagliacozzo and White, The Johns Hopkins Press, Baltimore, Maryland, pp. 401-24.

GOTSHALK, D. W., Professor Emeritus

Books

The structure of awareness: introduction to a situational theory of truth and knowledge. University of Illinois Press, Urbana, 138 pp.

Articles

C. I. Lewis on esthetic experience and esthetic value. In *The philosophy of C. I. Lewis*, ed. by P. Schlipp, Open Court Publishing Co., La Salle, Illinois, pp. 561-70.

SHWAYDYER, DAVID S., Professor

Articles

From language to metaphysics. *The Philosophical Forum*, Summer, pp. 462-85.

Review of Max Black, a companion to Wittgenstein's "Tractatus." *Foundations of Language*, 5, 2:289-96.

Wittgenstein on Mathematics. In *Studies in the philosophy of Wittgenstein*, ed. by Peter Winch, Routledge and Kegan Paul, London, pp. 66-116.

STALNAKER, ROBERT C., Associate Professor

Articles

Wallace on propositional attitudes. *The Journal of Philosophy*, 66, 22:803-06.

TURQUETTE, ATWELL R., Professor

Articles

Dualizable quasi-strokes for m-state automata. *Information Sciences*, 1:131-42.

Generalizable Kleene logics. *Proceedings of the American Mathematical Society*, 20: 361-67.

The Pascal triangle of Post sets for Lukasiewicz' many-valued logics. *Akten des XIV Internationalen Kongresses für Philosophie*, 3:102-08.

WALLACE, JAMES D., Associate Professor

Articles

Practical inquiry. *The Philosophical Review*, 78, 4:435-50.

Reviews

Knowledge of actions, by Betty Dowell. *The Philosophical Review*, 78, 1:117.

WERNER, LOUIS K.

Reviews

Hobbes studies, ed. by Keith Brown. *The Philosophical Review*, 78, 3:408-10.

WILL, FREDERICK L.

Articles

Thoughts and things. *Proceedings and addresses of the American Philosophical Association*, 42:51-69.

DOCTORAL DISSERTATIONS

- Annis, David B. (C. E. Caton, Adviser), Knowledge and belief: the relation of the two concepts.
- Brock, Jarrett E. (M. H. Fisch, Adviser), C. S. Peirce's logic of vagueness.
- Cordero, Ronald A. (C. E. Caton, Adviser), Gauthier, Stevenson, and practical reasoning.
- Fu, Wei-Hsun (M. H. Fisch, Adviser), Contemporary ethical autonomism: a critical study of Sartre and Hare.
- Halbasch, Keith E. (C. E. Caton, Adviser), Bertrand Russell's early philosophy of language.
- Koehn, Donald R. (M. H. Fisch, Adviser), Peirce's explanation of the validity of synthetic inference in the "Illustrations of the Logic of Science."
- Miller, Willard M. (M. H. Fisch, Adviser), C. S. Peirce on the philosophy of history.
- Roth, Michael D. (M. H. Fisch, Adviser), An examination of Plato's *Cratylus*.
- Tienson, John L. (L. Linsky, Adviser), Quantified epistemic logic.

PHYSICAL EDUCATION FOR MEN

CURETON, THOMAS K., JR., Professor

Books

- The physiological effects of exercise programs on adults. C. C. Thomas and Company, Springfield, Illinois, 217 pp.

Articles

- Opinions, reflections, perspectives of the future. In *Wide world of aquatics*, ed. by Harold T. Frierhood, Council for National Cooperation in Aquatics, Pelham, New York, pp. 11-45.

The relative value of stress indicators, related to prediction of strenuous athletic (treadmill) performance. In *The biochemistry of exercise*, S. Karger, New York, pp. 73-80.

The diet of the schoolboy athlete can be improved. *Athletic Journal*, 50:71-72, 112-14.

Improvements in oxygen intake capacity resulting from sports and exercise training programs, a review. *American Corrective Therapy Journal*, 23:144-47.

The relative value of stress indicators, a review. *American Corrective Therapy Journal*, 23:59-62.

Diet makes a difference. *Fitness for Living*, 3:57-60. Also in *Prevention*, 21:73-75.

What I have learned. *The Exchange*, 1:2-8. Scientific aspects of swimming. *The Swimming World*, 10:4-5.

Do athletes have good nutrition? *Journal of Physical Education*, 67:22-24.

With M. L. Pollock, L. Greninger

Effects of frequency of training on working capacity, cardiovascular function and body composition of adult men. *Medicine and Science in Sports*, 1:70-74.

With B. D. Franks

Orthogonal factors and norms for time components of the left ventricle. *Medicine and Science in Sports*, 1, 3:171-76.

FRANKS, D. DON, Assistant Professor

Articles

With T. K. Cureton, Jr.

Effects of training on time components of the left ventricle. *Journal of Sports Medicine and Physical Fitness*, 9:80-88.

With G. C. Moore

Effects of calisthenics and volleyball on the

AAHPER fitness test and volleyball skill. *The Research Quarterly*, 40:288-92.

With J. F. Wiley, T. K. Cureton, Jr.

Orthogonal factors and norms for time components of the left ventricle. *Journal of Science and Medicine of Sports*, 1:171-76.

With J. F. Wiley, S. Molnar

Time components of the left ventricle during work. *New Zealand Journal of Physical Education*, 2:67-74.

JOHNSON, WILLIAM, Associate Professor

Books Edited

Physical education around the world. Monograph #3. Phi Epsilon Kappa Fraternity, Indianapolis, Indiana, 72 pp.

KELLER, ROY J., Associate Professor and Assistant Dean of College

Articles

Hyper scheduling of college level programs in physical education activity classes. *The Physical Educator*, 26, 4:165-66.

KRIZAN, THOMAS F., Assistant Professor

Books

Lifeguard manual. College of Physical Education, University of Illinois, Champaign, 36 pp.

Articles

Swimming magic, now they swim — now they don't. *Swimming Technique*, 6, 1:22.

McCRISTAL, KING J., Professor and Dean of College

Articles

Body of knowledge symposiums. *Journal of Health, Physical Education, and Recreation*, 40:9, 20.

POHNDORF, RICHARD H., Professor

Articles

Resuscitation and cross-infection control. *72nd Proceedings of the National College Physical Education Association for Men*, p. 110-13.

British rugby and American football (A fitness and cultural comparison). *Physical Education*, 61:1-7.

ZEIGLER, EARLE F., Professor

Articles

Vigorous physical education and sport as essential ingredients in America's pattern of physical education. *The Physical Educator*, 26, 1:14-17.

Philosophy of administration. *Illinois Journal of Health, Physical Education, and Recreation*, 16, 1:9-12.

How does your curriculum in HPER rate? *Ibid.*, pp. 19-20.

A representative sampling of administrative theory and practice theses and dissertations in physical education. *The Physical Educator*, 26, 2:75-76.

First international seminar on the history of physical education and sport. *Proceedings of the National College Physical Education Association for Men*, p. 132-35.

A plan for preparation of administrators in physical education and athletics. *Canadian Association of Health, Physical Education, and Recreation Journal*, 36, 1:5-8.

Sports and games. *Illinois Parks*, 25, 6:160-63.

Foreword. In *Physical education around the world*. Monograph #3, ed. by W. Johnson, Phi Epsilon Kappa Fraternity, Indianapolis, Indiana, 72 pp.

With M. L. Jones

Illinois professional preparation association at

work. *Journal of Health, Physical Education, and Recreation*, 40, 3:85-87.

With W. J. Penny

Generalizations about developing graduate programs in physical education. *The Physical Educator*, 26, 4:169-70.

DOCTORAL DISSERTATIONS

- Al-Talib, Nizar M. (A. W. Hubbard, Adviser), Attitude: consonant or dissonant role playing with high or low justification.
- Brown, James D. (W. J. Huffman, Adviser), Psychophysiological measures of drivers under actual driving conditions.
- Case, Robert L. (E. F. Zeigler, Adviser), An analysis of the communication structure of a university administrative and instructional unit.
- Conley, John A. (H. S. Hoyman, Adviser), The construction and testing of a new written driver license examination for the State of Illinois.
- Deutsch, Helga M. (A. W. Hubbard, Adviser), A comparison of women's throwing patterns.
- Ditton, Robert B. (A. V. Sapura, Adviser), Recreation and water resources: a critical analysis of selected literature.
- Duthie, James H. (A. W. Hubbard, Adviser), A comparison of beliefs and attitudes associated with physical activity in college freshmen.
- Holmes, Harold Z., Jr. (T. K. Cureton, Jr., Adviser), Effects of training on chronic health complaints of middle-aged men.
- Ingold, John D. (T. K. Cureton, Jr., Adviser), An experimental evaluation of a required foundations of physical activity course for college freshmen.
- Irwin, Robert P. (W. H. Creswell, Jr., Adviser), The effect of the teacher and three different classroom approaches on seventh grade students' knowledge, attitudes and beliefs about smoking.
- Jette, Maurice J. (T. K. Cureton, Jr., Adviser), A study of long-term physical activity in sedentary middle-aged men.
- Kapilian, Ralph H. (T. K. Cureton, Jr., Adviser), The effects of rhythmical progressive exercises, isometric exercises, and tennis on the cardiovascular system of young men.
- Landers, Daniel M. (G. Lueschen, Adviser), Sibling-sex-status and ordinal position of female physical education majors and their sport participation and interests.
- Lowrey, George A., Jr. (A. V. Sapura, Adviser), A multivariate analysis of the relationship between selected leisure behavior variables and personal values.
- McFarland, Elsie M. (A. V. Sapura, Adviser), A historical analysis of the development of public recreation in Canadian communities.
- Olafson, Gordon A. A. (E. F. Zeigler, Adviser), Leader behavior of junior college and university physical education administrators.
- Peters, Martha L. (A. V. Sapura, Adviser), A comparison of the music sensitivity of mongoloid and normal children.
- Prueske, Eleanor C. (W. J. Huffman, Adviser), Relationship between hostility and health problems in college students.
- Roberts, Glyn C. (G. Lueschen, Adviser), The effect of risk taking disposition, presence of others, and cooperation and competition on risk taking and performance.
- Sechafer, Roger W. (H. S. Hoyman and W. J. Huffman, Advisers), The effects of a moderate blood alcohol concentration on driving.

Sherrow, Jeanne E. (A. V. Sapura, Adviser), The effect of a creative problem solving workshop on selected municipal recreation personnel.

PHYSICAL EDUCATION FOR WOMEN

CHESKA, ALYCE T., Professor

Articles

In love with our profession. *Foil*, Fall, p. 23.

GREBNER, FLORENCE D., Instructor

Books Edited

Soccer guide, 1968-70. Division for Girls' and Women's Sports, American Association for Health, Physical Education and Recreation, Washington, D.C., 76 pp.

Articles

Add color to your soccer displays. *Ibid.*, pp. 18.

Soccer rules digest. *Ibid.*, p. 71.

Digest of soccer rules. *Soccer Guide, 1966-68. Ibid.*, p. 79.

Effectiveness of two methods of attaining a full draw by beginning archers. *The Research Quarterly*, American Association for Health, Physical Education and Recreation, Washington, D.C.

HARRIS, MARJORIE M., Assistant Professor

Books

Basic swimming analyzed. Allyn and Bacon, Inc., Boston, 150 pp.

Articles

With G. M. Meredith

Personality traits of college women in beginning swimming. *Perceptual and Motor Skills*, 29:216-18.

HUELSTER, LAURA J., Professor

Articles

The relevance of the academy. In *The Academy Papers*, American Academy of Physical Education, October, pp. 81-85.

SCHURR, EVELYN L., Associate Professor

Articles

A suggested volleyball unit for the fourth grade. *Selected Volleyball Articles, 1959-1969*, ed. by Joanne Thorpe, The Division for Girls' and Women's Sports, American Association for Health, Physical Education and Recreation, Washington, D.C., pp. 63-67.

PHYSICS

ABASHIAN, ALEXANDER, Professor

Articles

With R. D. Stutzke, L. H. Jones, P. M. Mantsch, J. R. Orr, J. H. Smith

Search for the decay $K_S^0 \rightarrow \mu^+ \mu^-$. *Physical Review*, 177:2009-15.

ABRAMS, G. S., Research Associate

Articles

With B. Eisenstein, H. Gordon

Omega production in $\pi^+ d \rightarrow \pi^+ \pi^- \pi^0$ pp at 4.19 GeV/c. *Physical Review Letters*, 23:673.

ADLER, DONATELLA B., Research Assistant Professor

Articles

With F. T. Adler

Threefold analysis of low energy neutron cross

sections with the multilevel expansion. *Transactions of the American Nuclear Society*, 12:287-89.

Use of the complex partial widths of the Kapur-Peierls formalism in cross section analysis and approximate derivation of R-matrix parameters. *Ibid.*, p. 287.

ADLER, FELIX T., Professor

Articles

Maximum burst yields from coated-particle reactors. In *Fast burst reactors*, Proceedings of the National Topical Meeting on Fast Burst Reactors, pp. 443-51.

With D. B. Adler

Use of the complex partial widths of the Kapur-Peierls formalism in cross section analysis and approximate derivation of R-matrix parameters. *Transactions of the American Nuclear Society*, 12:287.

Three fold analysis of low energy neutron cross sections with the multilevel expansion. *Ibid.*, pp. 287-89.

AHLBURN, BYRON T., Research Associate

See Coordinated Science Laboratory.

ALPERT, DANIEL, Dean of the Graduate

College and Professor of Physics

See Graduate College.

ANDERSON, ANSEL C., Professor

Articles

The thermal grounding of electrical leads at low temperatures. *Review of Scientific Instruments*, 40:1502-03.

With B. Holmstrom, M. Krusius

Calorimetric investigation of hyperfine interactions in metallic Ho and Tb. *Physical Review*, 177:910-16.

Calorimetric investigation of hyperfine interactions in metallic praseodymium and thulium. *Physical Review*, 188:888-92.

With B. Holmstrom, M. Krusius,

G. R. Pickett

Calorimetric investigation of the hyperfine interactions in metallic Nd, Sm, and Dy. *Ibid.*, 183:546-52.

With D. W. Bloom

Superconducting leads for cryogenic applications. *Review of Scientific Instruments*, 40:1243-44.

With J. E. Robichaux, Jr.

Modified speer resistors for use as low temperature thermometers. *Ibid.*, pp. 1512-13.

AXEL, PETER, Professor

Articles

With A. O. Hanson, D. Jamnik,

C. S. Robinson, D. C. Sutton

Design of a 600 MeV superconducting microtron. *Institute of Electrical and Electronic Engineers Transactions*, NS-16, 3:985.

BARDEEN, JOHN, Professor

Articles

Advances in superconductivity. *Physics Today*, 22:40-46.

With R. Kummel, A. E. Jacobs, L. Tewordt

Structure of vortex lines in pure superconductors. *Physical Review*, 187:556-70.

BAYM, GORDON A., Professor

Articles

Neutron stars—decay of the magnetic field. *Nature*, 224:5220.

Lectures on quantum mechanics. *Ibid.*, p. 5223.

With R. G. Barrera, C. J. Pethick

Mobility of the electron bubble in superfluid helium. *Physical Review Letters*, 22:20-23.

With C. Pethick, D. Pines

Superfluidity in neutron stars. *Nature*, 224:673.

The electrical conductivity of neutron star matter. *Ibid.*, p. 674.

With C. Pethick, D. Pines, M. Ruderman

Spin-up in neutron stars: the future of the vela pulsar. *Ibid.*, p. 872.

BOHAN, T. L., Research Associate

Articles

With H. J. Stapleton

Temperature and magnetic field dependence of the spin-lattice relaxation rates for Er^{3+} , Pr^{3+} , and Tb^{3+} in anhydrous LaCl_3 . *Physical Review*, 182:385-94.

BOHMER, HEINRICH, Research Assistant

Professor

See Coordinated Science Laboratory.

BROWN, FREDERICK C., Professor

Articles

With H. Fujita, C. Gähwiler

Far-ultraviolet spectra due to 4d electrons in the alkali iodides. *Physical Review Letters*, 22:1369-71.

With R. C. Brandt

Induced infrared absorption due to bound charge in the silver halides. *Physical Review*, 181:1241-50.

BROWN, Richard M., Professor

Articles

Pattern recognition problems in bubble chamber physics. *Pattern Recognition*, 1:263.

With L. J. Koester, U. Koetz, T. Clark,

S. Segler, R. Taylor

Wire proportional counter arrays with fast digital arithmetic for decision making. *ISPRANuclear Electronics Symposium Proceedings*, pp. 247-50.

BRUSSEL, M. K., Professor

Articles

With I. Brissaud, M. Sowinski, B. Tatischeff

Elastic scattering of 166 MeV alpha particles on D, C, Si, Sn and Pb. *Physics Letters*, 30B, 5:324-26.

BURTON, J. J., Research Associate

Articles

Adsorption and diffusion on three structures of the (100) surface of a fcc crystal. *Surface Science*, 13:414.

Anomalous heat capacity of spherical clusters of atoms. *Chemical Physics Letters*, 3:594-96.

The equilibrium concentration of impurities on the surface of a crystal. *Physical Review*, 177:1346-48.

The many-body contribution to self diffusion in rare gas solids. *Ibid.*, 182:885-91.

CHANG, SHAU-JIN, Assistant Professor

Articles

Solutions to the Gell-Mann-Dashen angular conditions. In *Lectures in theoretical physics*, ed. by A. O. Barut and W. E. Brittin, Gordon and Breach, Science Publishers, Inc., New York. vol. 11:287-97.

- Generalized $U(6) \times U(6)$ kinematical transformations and properties of 2^+ mesons. *Physical Review*, 178:2421-26.
- With R. Rajaraman
Long range corrections to the Coulomb potential and their implications about weak interactions. *Ibid.*, 183:1442-45.
Some remarks on the kinematics of multi-peripheral processes. *Ibid.*, pp. 1517-19.
- With S. Ma
Feynman rules and quantum electrodynamics at infinite momentum. *Ibid.*, 180:1506-13.
Scattering amplitudes in quantum electrodynamics at infinite energy. *Physical Review Letters*, 22:1334-37.
Multi-photon exchange amplitudes at infinite energy. *Physical Review*, 188:2385-2404.
- With L. O'RaiFeartaigh
Unitary representations of $SL(2, C)$ in an $E(2)$ basis. *Journal of Mathematical Physics*, 10:21-29.
- With R. Dashen, L. O'RaiFeartaigh
Properties of current algebra at infinite momentum. *Physical Review*, 182:1805-18.
Momentum-transfer-independent angular relations and solutions to the isospin-factored current algebra. *Ibid.*, pp. 1819-36.
- COMPTON, W. DALE, Professor of Physics and Director of Coordinated Science Laboratory
See Coordinated Science Laboratory.
- COOPER, DUANE H., Research Associate Professor
See Coordinated Science Laboratory.
- DAVIS, L. CRAIG, Research Associate
Articles
Comments on electrode self-energy effects in tunnel junctions. *Physical Review*, 187, 3:1177-80.
With C. B. Duke
Analysis of the tunneling measurement of electronic self-energies due to interactions of electrons and holes with optical phonons in semiconductors. *Ibid.*, 184:764-79.
- DEBRUNNER, PETER G., Associate Professor
Books Edited
With J. C. M. Tzibris, E. Münch
Mössbauer spectroscopy in biological systems. Engineering Publications Office, University of Illinois, Urbana, 70 pp.
- DEEGAN, ROSS A., Research Assistant Professor
Articles
Total energy of d-band metals: alkaline earth and noble metals. *Physical Review*, 186:619.
Alternative transition-metal pseudopotential. *Ibid.*, 188:1170.
- With N. W. Dalton
On the structure of the transition metals II. Computed densities of states. *Journal of Physics C; Proceedings of the Physical Society of London*, series 2, 2:2369-72.
- DE PASQUALI, GIOVANNI, Research Assistant Professor
Articles
With V. N. Panyushkin, H. G. Drickamer
Effects of pressure on the oxidation state of ferrates. *Journal of Chemical Physics*, 51: 3305-08.
- With D. D. Cook, H. Frauenfelder, R. N. Peacock, F. Steunrissser, A. Wattenberg
Search for fractionally charged particles. *Physical Review*, 188:2092-97.
- DUKE, CHARLES B., Professor
Books
Tunneling in solids. Academic Press, New York, 353 pp.
- Articles
Theory of metal-barrier-metal tunneling. *Proceedings of NATO Advanced Study Institute on Tunneling Phenomena in Solids*, Plenum Press, New York, p. 31.
A unified theory of zero-bias anomalies and energy loss mechanisms in the barrier. *Ibid.*, p. 405.
Electronic structure of clean metallic interfaces. *Journal of Vacuum Science and Technology*, 6:152.
Plasmon excitation by electron tunneling. *Physical Review*, 186:588-90.
- With C. W. Tucker, Jr.
Multiple scattering description of intensity profiles. *Physical Review Letters*, 23:1163.
Inelastic-collision model of low-energy electron diffraction from solid surfaces. *Surface Science*, 15:231.
- With M. J. Rice, F. Steunrissser
Tunneling measurement of electron-plasmon interaction in degenerate semiconductors. *Physical Review*, 181:733.
- With T. Soules
A solvable model of energy transfer between electronic states which interact with a boson field. *Physics Letters*, 29A:117.
- With L. C. Davis
Analysis of tunneling measurement of electronic self-energies due to interactions of electrons and holes with optical phonons in semiconductors. *Physical Review*, 184:764-79.
- DUMMER, GERALD, Research Associate
Articles
Nonlinear pressure effect on the electronic density of states of indium. *Physics Letters*, 29A:311-12.
- DY, KIAN SENG, Research Associate
Articles
With C. J. Pethick
Transport coefficients of a normal fermi liquid: application to liquid He^3 . *Physical Review*, 185, 1:373.
- EISENSTEIN, BOB I., Assistant Professor
Articles
With G. Abrams, H. Gordon
Omega production in $\pi^+d \rightarrow \pi^+\pi^-\pi^0$ pp at 4.19 GeV/c. *Physical Review Letters*, 23:673.
- FEIBELMAN, PETER J., Research Assistant Professor
Articles
Critique of a bootstrap theory of phase transitions. *Ibid.*, 22:1091.
- FEIT, MICHAEL D., Research Associate
Articles
With H. B. Huntington
Transport parameters for a NFEM I: solution of the Boltzmann equation. *Bulletin of the American Physical Society*, 14:612.
Transport parameters for a NFEM II: driving force for electromigration. *Ibid.*

FISHBANE, PAUL M., Research Assistant
Professor

Books Edited

With L. M. Simmons, Jr.

Proceedings of the 1969 Regge cut conference.
University of Wisconsin, Madison, 242 pp.

Articles

Self-energy and scattering phase shifts in
model field theories. *Physical Review*, 177:
2323.

With L. Durand III, L. M. Simmons, Jr.

The general parameterization of trajectory
and residue functions for daughter Regge
poles. *Physical Review Letters*, 22:261.

With L. Durand III, S. Klein,
L. M. Simmons, Jr.

General form of Regge residue and trajectory
functions in the scattering of particles with
spin. *Ibid.*, 23:201.

Reviews

With L. M. Simmons, Jr.

Regge cut conference report. *Physics Today*,
22, 9:101.

FLYNN, COLIN P., Professor

Articles

With J. A. Blodgett

The transition from bound to virtual 4-f levels.
Philosophical Magazine, 20:917-35.

With D. A. Rigney, J. A. Blodgett

Rare earth impurities in liquid Cu. *Ibid.*, pp.
907-15.

FOSDICK, LLOYD D., Professor

See Computer Science.

FRAUENFELDER, HANS, Professor

Articles

Symmetry laws. In *Yearbook of science and
technology*, McGraw-Hill, New York. pp.
329-31.

Mössbauer effect and biochemistry. In *Möss-
bauer spectroscopy in biological systems*,
Engineering Publications Office, University
of Illinois, Urbana, pp. 1-5.

With D. Herzo, D. Banner, E. Beier,
W. K. Bertram, and others

Measurement of the ratio of the τ' partial
decay rates. *Physical Review*, 186:1403-14.

With M. Garrell, D. Ganek, D. C. Sutton

Beta-Gamma-Gamma correlation in ^{56}Mn : a
test of time-reversal invariance. *Ibid.*, 187:
1410-13.

With D. D. Cook, G. DePasquali,
R. N. Peacock, F. Steinrisser,
A. Wattenberg

Search for fractionally charged particles. *Ibid.*,
188:2092-97.

FUJITA, HIIZU, Research Assistant

Professor

Articles

With C. Gähwiller, F. C. Brown

Far ultraviolet spectra due to 4d electrons in
the alkali iodides. *Physical Review Letters*,
22:1369-71.

GÄHWILLER, CHRISTIAN, Research

Associate

Articles

Excitonic effects in the electro-reflectance of
lead iodide. *Physical Review*, 185:1141.

With H. Fujita, F. C. Brown

Far ultraviolet spectra due to 4d electrons in
the alkali iodides. *Physical Review Let-
ters*, 22:1369-71.

GINSBERG, DONALD M., Professor

Articles

With L. C. Hebel

Nonequilibrium properties: comparison of ex-
perimental results with predictions of the
BCS theory. In *Superconductivity*, ed. by
R. D. Parks, Marcel Dekker, Inc., New
York, pp. 193-257.

With W. N. Hubin

Electron tunneling into superconducting
mercury films at temperatures below 0.4°K.
Physical Review, 188:716-22.

With R. E. Harris

Transmission of far infrared radiation through
thin films of superconducting amorphous
bismuth and gallium and beta phase gallium.
Ibid., p. 737-44.

GOLDWASSER, EDWIN L., Professor

Articles

With U. E. Krause, J. S. Loos

Production of Σ^{\pm} multibody final states in
5.5-GeV/c K-p interactions. *Ibid.*, 177:
1951-65.

GORMLEY, MICHAEL F., Research

Assistant Professor

Articles

With E. Hyman, W. Lee, T. Nash,
J. Peoples, and others

Comments on Yuta-Okubo eta asymmetry
mechanism. *Physical Review Letters*, 22:
108-10.

GRANATO, ANDREW V., Professor

Articles

With R. O. Schwenker

Plane wave sound radiation from mobile
location walls. *Ibid.*, 23, 16:918-21.

With F. Fanti, J. Holder

Viscous drag on dislocations in LiF and
NaCl. *Journal of the Acoustical Society of
America*, 45:1356-66.

With L. J. Teutonico, K. Lücke, F. W. Heuser

Reaction paths and activation energies for
dislocation unpinning. *Ibid.*, pp. 1402-16.

With D. Gerlich, J. Holder

Effect of thermal-neutron irradiation on the
elastic moduli of LiF. *Physical Review*,
181:1220-27.

With J. Holder

Thermodynamic properties of solids contain-
ing defects. *Ibid.*, 182:729-41.

HANDLER, PAUL, Professor

Articles

The exciton and the Franz-Keldysh effect.
In *Proceedings of the IX international con-
ference on the physics of semiconductors*,
Moscow, July 23-29, pp. 380-83. 1968.

With J. L. McNatt

Interband optical properties of grain bound-
aries in germanium: an amorphous sys-
tem. *Physical Review*, 178:1328-36.

With J. Ashman

Specific heat of the order-disorder transition
in β -brass. *Physical Review Letters*, 23,
12:642.

With S. Jaspersion, S. Koeppen

Interference of light and heavy hole con-
tributions to the electroreflectance spectrum
of germanium. *Ibid.*, 24:1387.

With S. Koeppen

Field inhomogeneity in electroreflectance.
Physical Review, 187:1182-85.

HANSON, A. O., Professor

Articles

With M. Blecher

Photoproduction of π^0 mesons from He^3 with 340-MeV bremsstrahlung. *Physical Review*, 183:873-79.

With D. Jannik, C. S. Robinson,

P. Axel, D. C. Sutton

Design of a 600 MeV superconducting microtron. *Institute of Electrical and Electronic Engineers, Transactions, NS-16*, 3:985.

HENDRY, ARCHIBALD W., Research

Assistant Professor

Articles

With D. Faiman

Harmonic-oscillator model for baryons. *Physical Review*, 180:1609-10.Electromagnetic decays of baryon resonances in the harmonic-oscillator model. *Ibid.*, pp. 1572-77.

With J. S. Trefil

Nucleon isobar excitation in π^+p scattering. *Ibid.*, 184:1680-82.

HOLDER, J. T., Research Associate

Articles

With F. Fanti, A. V. Granato

Viscous drag on dislocations in LiF and NaCl. *Journal of the Acoustical Society of America*, 45:1356-66.

With D. Gerlich, A. V. Granato

Effect of thermal-neutron irradiation on the elastic moduli of LiF. *Physical Review*, 181:1220-27.

With A. V. Granato

Thermodynamic properties of solids containing defects. *Ibid.*, 182:729-41.

HOLZAPFEL, WILFRIED B., Research

Associate

Articles

Effect of pressure and temperature on the conductivity and ionic dissociation of water up to 100 kbars and 1000°C. *Journal of Chemical Physics*, 50:4424-28.

With H. G. Drickamer

The effect of pressure on the oxidation state of iron in $\text{FeCl}_2 \cdot 6\text{H}_2\text{O}$, $\text{FeCl}_2 \cdot 6\text{NH}_3$, and $\text{FeF}_2 \cdot 3\text{H}_2\text{O}$. *Ibid.*, p. 1480.Effect of pressure on the Neel temperature of cobaltous oxide. *Physical Review*, 184, 2: 323-25.

With J. A. Cohen, H. G. Drickamer

Effect of pressure on the Curie temperatures of PdCo alloys. *Ibid.*, 187, 2:657-59.

HOWE, ROBERT A., Research Associate

Articles

With J. E. Enderby

Electron transport in liquid Cu-Sn. *Philosophical Magazine*, 18:923-27. 1968.

HU, CHIA-REN, Research Associate

Articles

Critical-field ratio H_{c1}/H_{c2} for pure superconductors outside the Landau-Ginzburg region I $T \cong 0^\circ\text{K}$. *Physical Review*, 178, 2:684.Observed large deviation of the superconductive critical-field ratio H_{c1}/H_{c2} from the existing theories near T_c . *Ibid.*, 187, 2: 574-79.

HUMMEL, JOHN PHILIP, Professor

Articles

With R. A. Meyer, W. B. Walters

Cross sections for the $16\alpha(\gamma, 2n)$, $19\text{F}(\gamma, 2np)$, $27\text{Al}(\gamma, 2pn)$, $51\text{V}(\gamma, \alpha)$ and $51\text{V}(\gamma, \alpha^{2n})$ reactions to 300 MeV. *Nuclear Physics, A122:606-24*. 1968.

ICHIMARU, SETSUO, Associate Professor

Articles

Kinetic theory of fluctuations in turbulent plasmas. *Journal of the Physical Society of Japan*. 26:76-77.Theory of fluctuations in turbulent plasmas. *Statistical Physics of Charged Particle Systems*, pp. 69-96.

IKUSHIMA, AKIRA Research Assistant

Professor

Articles

Sound velocity near the Neel point of MnF_2 . *Physics Letters*, 29A:364-65.Ultrasoic attenuation near the antiferromagnetic critical point of CoO . *Ibid.*, pp. 417-18.Superconductivity in Nb and Nb-Ta alloys. *Journal of Physics and Chemistry of Solids*, 30, 4:873.

JASPERSON, STEPHEN N., Research

Associate

Articles

With S. E. Schnatterly

An improved method for high reflectivity ellipsometry based on a new polarization modulation technique. *Review of Scientific Instruments*, 40:761.Photon-surface-plasmon coupling in thick silver foils. *Physical Review*, 188:759.

With P. Handler, S. Koeppen

Interference of light and heavy hole contributions to the electroreflectance spectrum of germanium. *Physical Review Letters*, 23, 24:1387.

JONES, HILARY D., Research Associate

Articles

Isotope effects in solid neon. *Physical Review Letters*, 14:766-67.

JONES, LORELLA MARGARET, Assistant

Professor

Articles

Behavior of helicity amplitudes at a threshold involving one photon. *Physical Review*, 179:1627-28.

With H. Wyld, Jr.

Regge residues in the Veneziano model. *Physical Review Letters*, 23:814-16.

KADANOFF, LEO P., Professor

Articles

Mode-mode coupling near the critical point. *Journal of Physical Society of Japan*, 26: 122-26.Correlations along a line in the two-dimensional Ising model. *Physical Review*, 188, 2:859-63.

With G. E. Laramore

Anomalous ultrasonic attenuation above the magnetic critical point. *Ibid.*, 187:619-29.Fluctuation enhancement of the electrical conductivity above the superconducting transition. *Comments on Solid State Physics*, 2: 105.

KAWASAKI, KYOZI, Visiting Associate

Professor

Articles

Transport coefficients of Van der Waals fluids. *Progress of Theoretical Physics*, 41:1190.A note on the ultrasonic attenuation near the magnetic critical points. *Physics Letters*, 29A, 7:406.Decay rate of concentration fluctuations of a binary mixture in the n.m. hydrodynamical region. *Ibid.*, 30A, 6:325.

KIRBY, ROGER D., Research Associate

Articles

- With I. G. Nolt, C. D. Lytle, A. J. Sievers
A double-pass spectrometer for the far-infrared. *Applied Optics*, 8:309.
- With A. J. Sievers
Far infrared absorption by off-center Li⁺ in KCl. *Bulletin of the American Physical Society*, 14:301.

KLEIN, MILES V., Professor

Articles

- Some properties of phonon thermal conductivity resonances. *Physical Review*, 186: 839.
- With B. Wedding
Infrared absorption of the hydroxyl ion in alkali halide crystals. *Ibid.*, 177:1274-88.
- With B. Wedding, M. A. Levine
Liberation of the hydroxyl ion in alkali halide crystals. *Ibid.*, 180:902-10.
- With H. F. MacDonald, T. P. Martin
Experimental and theoretical study of the far-infrared spectra of monovalent impurities in sodium chloride. *Ibid.*, 177:1292-1307.

With G. E. Moore, Jr.

- Thermal conductivity of doped and pure cadmium sulfide. *Ibid.*, 179:722-30.

With W. R. Fenner

- Raman scattering by the hydroxyl ion in alkali halides. *Proceedings of the International Conference on Light Scattering Spectra of Solids*, pp. 497-504. 1968.

With S. P. S. Porto

- Multiple-phonon-resonance Raman effect in CdS. *Physical Review Letters*, 22:782-84.

With R. L. Rosenbaum, C. K. Chau

- Thermal conductivity of alkali halide crystals containing the hydroxide ion. *Physical Review*, 186:852.

KOEHLER, JAMES S., Professor

Articles

- Electrical resistivity measurements of vacancy annealing. In *Vacancies and interstitials in metals*. North-Holland, Amsterdam, pp. 169-82.
- Atomic mechanisms during the annealing of irradiated metals. *Ibid.*, pp. 989-98.
- Diffusion of lattice defects in a stress field. *Physical Review*, 181:1015-19.

With Y. N. Lwin, M. Doyama

- Stage III annealing study of electron-irradiated pure aluminum. In *Proceedings of the international conference on solid state physics research with accelerators*, ed. by A. N. Goland, Brookhaven National Laboratory, Upton, New York, pp. 224-64. 1968.

KOESTER, LOUIS J., Professor

Articles

- With R. M. Brown, U. Koetz, T. Clark, S. Segler, R. Taylor
Wire proportional counter arrays with fast digital arithmetic for decision making. *ISPRANuclear Electronics Symposium Proceedings*, pp. 247-50.
- With D. Herzo, D. Banner, E. W. Beier, W. K. Bertram, and others
Measurement of the ratio of the τ' partial decay rates. *Physical Review*, 186:1403-14.

KÖTZ, ULRICH, Research Associate

Articles

- With L. J. Koester, R. M. Brown, T. Clark,

S. Segler, R. Taylor

- Wire proportional counter arrays with fast digital arithmetic for decision making. *ISPRANuclear Electronics Symposium Proceedings*, pp. 247-50.
- With C. Geweniger, P. Heide, R. A. Lewis, P. Schmäser, and others
 π^+ production with linearly polarized photons. *Physics Letters*, 29B:41.

KRUGER, P. GERALD, Professor

Articles

With J. N. Snyder

- Calculation concerning superconducting accelerators. In *Proceedings of the 1968 summer study on superconducting devices and accelerators*, Part III, Brookhaven National Laboratory, p. 1059.
- Construction details for superconducting magnets for FFAG accelerators. *Institute for Electrical and Electronics Engineers Transactions on Nuclear Science*, NS-16, 3: 994-99.

KRUSE, ULRICH E., Professor

Articles

With J. L. Loos, E. L. Goldwasser

- Production of Σ^+ multi-body final states in 5.5 GeV/c K-p interactions. *Physical Review*, 177:1951-65.

KUNZ, ALBERT B., Research Assistant
Professor

Articles

- Combined plane-wave tight binding method for energy band calculations with applications to NaI and LiI. *Physical Review*, 180:934-41.
- Localized orbitals in polyatomic systems. *Physics Status Solidi*, 36:307.

With W. B. Fowler

- Conduction bands in cesium fluoride. *Physical Review*, 186:956.

With W. B. Fowler, P. M. Schneider

- The influence of the potential on electron energy bands in alkali halide crystals. *Physics Letters*, 28A:533-54.

With T. Miyakawa, S. Oyama

- Electronic energy bands, excitons and plasmons in LiF crystal. *Physics Status Solidi*, 34:581-89.

LARAMORE, GEORGE E., NSF Postdoctoral Fellow

Articles

With L. P. Kadanoff

- Anomalous ultrasonic attenuation above the magnetic critical point. *Physical Review*, 187:619.
- Fluctuation enhancement of the electrical conductivity above the superconducting transition. *Comments on Solid State Physics*, 2: 105.

LAZARUS, DAVID, Professor

Articles

With M. Beyeler

- Influence de la pression hydrostatique sur la conductivité du NaCl. *Solid State Communications*, 7:1487.

With A. Ott, A. Lodding

- Slowly-diffusing impurities in lithium metal. *Physical Review*, 188:1088-92.

With W. D. Seward, S. C. Fain, Jr.

- Thermal conductivity of hexagonal close-

packed solid helium four at high densities. *Ibid.*, 178:345-55.

MAPOTHER, DILLON E., Professor

Articles

With D. U. Gubser

Remotely controlled piezoelectric vibrator for low temperature applications. *Review of Scientific Instruments*, 40:843-45.

MARTIN, THOMAS P., Research Associate

Articles

Infrared absorption in small KCl crystals. *Physical Review*, 177:1349-50.

With H. F. MacDonald, M. V. Klein

Experimental and theoretical study of the far-infrared spectra of monovalent impurities in sodium chloride. *Ibid.*, pp. 1292-1307.

MASSEY, WALTER E., Assistant Professor

Articles

With C. Woo, H-T. Tan

Theory of dilute solutions of He³ in liquid He⁴. *Physical Review Letters*, 22:278.

Theory of dilute solutions of He³ in liquid He⁴. *Physical Review*, 185:287.

With C. Woo

Theory of solid He³. II. The quasi-crystal approximation. *Ibid.*, pp. 272-82.

MAURER, ROBERT J., Professor, Director of MRL

Articles

Additive coloration of sodium chloride. *Journal of Chemical Physics*, 50:1974-75.

McCORMICK, BRUCE H., Professor

See Computer Science.

MÖLLER, H. S., Research Associate

Articles

With V. Gotthardt, R. L. Mössbauer

Magnetic field at Sn¹¹⁹ in gadolinium. *Physics Letters*, 28A:480.

MOORE, M. A., Research Associate

Articles

Additional evidence for a phase transition in the plane rotator and classical Heisenberg models for two-dimensional lattices. *Physical Review Letters*, 23, 15:861-63.

With M. Ferer, M. Wortis

The scaling form of the spin-spin correlation function of the three-dimensional Ising ferromagnet above the Curie temperature. *Ibid.*, 22:1382-85.

With M. Wortis, D. Jasnow

Renormalization of the linked cluster expansion for a classical magnet. *Physical Review*, 185, 2:805-15.

Spin-spin correlation function of three-dimensional Ising ferromagnet above the Curie temperature. *Physical Review Letters*, 22: 940-43.

MUNCK, E., Research Assistant Professor

Books Edited

With P. G. DeBrunner, J. C. M. Tsibris

Proceedings of a meeting: Mössbauer spectroscopy in biological systems. Engineering Publications Office, University of Illinois, Urbana, 70 pp.

O'HALLORAN, T. A., Associate Professor

Articles

With M. Derrick, R. Kraemer

Fake studies on some strong and weak interactions in the 12-ft. and 25-ft. bubble chambers, Part I and II. In *1968 Summer study*, National Accelerator Laboratory, Batavia, Illinois, vol. 1, pp. 47-94.

ORR, J. R., Research Assistant Professor

Articles

With R. D. Stutzke, A. Abashian, L. H. Jones,

P. M. Mantsch, J. H. Smith
Search for the decay $K_S^0 \rightarrow \mu^+ \mu^-$. *Physical Review*, 177:2009-15.

PASTERNAK, M. P., Research Assistant Professor

Articles

Application of the Mössbauer effect in I²²⁹ as a spectroscopic tool for chemical structures and lattice dynamics investigation. *Symposium of the Faraday Society*, 1:119.

Magnetization near an iodine impurity in anti-ferromagnetic MnTe₂. *Physical Review*, 184:523.

Te¹²⁵ Mössbauer effect in paramagnetic and anti-ferromagnetic MnTe₂. *Ibid.*, 181:574.

PETHICK, CHRISTOPHER J., Research Assistant Professor

Articles

Attenuation of zero sound in a normal fermi liquid. *Physical Review*, 185:384.

With K. S. Dy

Transport coefficients of a normal fermi liquid: application to liquid He³. *Ibid.*, p. 373.

With G. Baym, R. G. Barrera

Mobility of the electron bubble in superfluid helium. *Physical Review Letters*, 22:20-23.

With G. Baym, D. Pines

The electrical conductivity of neutron star matter. *Nature*, 224:674.

Superfluidity in neutron stars. *Ibid.*, p. 673.

With G. Baym, D. Pines, M. Ruderman

Spin-up in neutron stars: the future of the vela pulsar. *Ibid.*, p. 872.

PINES, DAVID, Professor

Articles

With G. Baym, C. Pethick

Superfluidity in neutron stars. *Nature*, 224: 673.

The electrical conductivity of neutron star matter. *Ibid.*, p. 674.

With G. Baym, C. Pethick, M. Ruderman

Spin-up in neutron stars: the future of the vela pulsar. *Ibid.*, p. 872.

PROPST, FRANKLIN MOORE, Associate Professor

See Coordinated Science Laboratory.

RADOSEVICH, L. G., Research Associate

Articles

With W. S. Williams

Phonon scattering by conduction electrons and by lattice vacancies in carbides of the transition metals. *Physical Review*, 181: 1110-17.

Low temperature thermal conductivity of uranium nitride. *Journal of the American Ceramic Society*, 52, 9:514.

- Lattice thermal conductivity of superconducting niobium carbide. *Physical Review Letters*, 23:A8-A9.
- RAETHER, MANFRED J.**, Professor
See Coordinated Science Laboratory.
- RAVENHALL, DAVID G.**, Professor
Articles
With J. Heisenberg, R. Hofstadter, J. S. McCarthy, I. Sick, and others
Elastic electron scattering by PG^{208} and new information about the nuclear charge distribution. *Physical Review Letters*, 23: 1402-05.
- ROBINSON, C. S.**, Professor Research
Articles
With A. O. Hanson, D. Jamnik, P. Axel, D. C. Sutton
Design of a 600 MeV superconducting microtron. *Institute of Electrical and Electronics Engineers Transactions, NS-16*, 3:985.
- SAH, CHIH-TANG**, Professor
See Electrical Engineering.
- SALAMON, MYRON B.**, Assistant Professor
Articles
With D. S. Simons, P. R. Garnier
Simultaneous measurement of the anomalous heat capacity and resistivity of chromium near T_N . *Solid State Communications*, 7: 1035-38.
- SARD, ROBERT D.**, Professor
Articles
With D. F. Grether
The enhancement at 1.45 BeV in the $N^{++}(1236)\pi^-$ mass distribution in $pp \rightarrow pp \pi^+ \pi^-$ at 7.9 BeV/c. *Bulletin of the American Physical Society*, 13:49-50.
Reggeized pion exchange and the 1425 MeV $\Delta^{++}(1238)\pi^-$ enhancement in $pp \rightarrow pp \pi^+ \pi^-$ at 7.9 BeV/c. *Nuclear Physics, B14*: 381-88.
- SHERWOOD, BRUCE A.**, Assistant Professor
Articles
With M. B. Stearns, G. Culligan, V. L. Telegdi, M. Stearns
X-ray yields in the K and L series of low-Z muonic atoms. *Physical Review*, 184:22.
- SHIMOMURA, YOSHIHARA**, Research Associate
Articles
Interstitial clusters observed below stage III annealing in electron irradiated pure gold. *Philosophical Magazine*, 19:773-94.
- SIMMONS, RALPH O.**, Professor
Articles
Lattice parameter and diffracted intensity measurements on noble gas crystals. *Acta Crystallographica*, A25:S52.
- SLICHTER, CHARLES PENCE**, Professor
Articles
With E. K. Cornell
Spin-flip scattering of conduction electrons from impurities in molten sodium. *Physical Review*, 180:358-62.
With J. R. Asik, M. A. Ball
Spin-flip scattering cross section for conduction electrons of foreign atoms in lithium and sodium. I. *Ibid.*, 181:645-61.
- Spin-flip scattering cross section for conduction electrons of foreign atoms in lithium and sodium. II. *Ibid.*, pp. 662-70.
- With N. Fernelius
Magnetic resonance studies of an electric field gradient around magnesium impurities in aluminum. *Magnetic Resonance and Radiofrequency Spectroscopy*, pp. 347-50.
- SMITH, JAMES HAMMOND**, Professor
Articles
With R. D. Stutzke, A. Abashian, L. H. Jones, P. M. Mantsch, J. R. Orr
Search for the decay $K_S^0 \rightarrow \mu^+ \mu^-$. *Physical Review*, 177:2009-15.
- SNYDER, JAMES N.**, Professor
See Computer Science.
- STAPLETON, HARVEY J.**, Professor
Articles
With K. L. Brower
ESR linewidth variation with temperature in some rare earth salts: T_1/T_2 ratios. *Physical Review*, 178:481-85.
With T. L. Bohan
Temperature and magnetic field dependence of the spin-lattice relaxation rates for Er^{3+} , Pr^{3+} , and Tb^{3+} in anhydrous LaCl₃. *Ibid.*, 182:385-94.
- STONEHAM, A. M.**, Visiting Associate Professor
Articles
The shapes of inhomogeneously broadened resonance lines. *Review of Modern Physics*, 41:1.
- SULLIVAN, JEREMIAH D.**, Associate Professor
Articles
With D. Steele
Iteration principle for daughter Regge trajectories. *Physical Review*, 181:1927-29.
Comment on the Toller-angle dependence of multi-Regge vertices. *Ibid.*, 187, 5:2271-72.
- SUTTON, DAVID C.**, Associate Professor
Articles
With A. O. Hanson, D. Jamnik, C. S. Robinson, P. Axel
Design of a 600 MeV superconducting microtron. *Institute of Electrical and Electronics Engineers Transactions, NS-16*, 3:985.
With H. Frauenfelder, M. Garrell, D. Ganek
Beta-Gamma-Gamma correlation in ^{56}Mn : a test of time-reversal invariance. *Physical Review*, 187:1410-13.
- SWENBERG, CHARLES E.**, Research Associate
Articles
Theory of triplet exciton annihilation in polyacene crystals. *Journal of Chemical Physics*, 51:1753.
With W. T. Stacy
Influence of resonance transfer and exciton diffusion on luminescence decay. *Physica Status Solidi*, 36:717-22.
- TREFIL, JAMES STANLEY**, Assistant Professor
Articles
On the problem of incoherent subtractions in production processes from nuclei. *Nuclear Physics, B11*:330-38.
Interactions of hadrons with nuclei at high

- energy. I. *Physical Review*, 180:1366-78.
Interactions of hadrons with nuclei at high energy. II. Photoproduction. *Ibid.*, pp. 1379-86.
- Mass dependence of slopes in multiparticle production. *Nuovo Cimento, Series X*, 63A:961-68.
- Nuclear production as a technique for distinguishing between kinematic enhancements and resonances. *Physical Review Letters*, 23:1075.
- With A. W. Hendry
Nucleon isobar excitation in π^\pm scattering. *Physical Review*, 184:1680-82.
- WATTENBERG, ALBERT, Professor
Articles
Status of experimental searches for CP violation in other than neutral K-decays. *Lectures in Theoretical Physics*, pp. 911-18.
- With D. Herzo, H. Frauenfelder, D. Banner, E. Beier, and others
Measurement of the ratio of the τ' partial decay rates. *Physical Review*, 186:1403-14.
- With H. Frauenfelder, D. D. Cook, G. DePasquali, R. N. Peacock, F. Steinrisser
Search for fractionally charged particles. *Ibid.*, 188:2092-97.
- WILLIAMS, WENDELL S., Professor
Articles
With L. G. Radosевич
Phonon scattering by conduction electrons and by lattice vacancies in carbides of the transition metals. *Physical Review*, 181:1110-17.
- Low-temperature thermal conductivity of uranium nitride. *Journal of the American Ceramic Society*, 52, 9:514.
- Lattice thermal conductivity of superconducting niobium carbide. *Physical Review Letters*, 23:A8-A9.
- WORTIS, MICHAEL, Associate Professor
Articles
With D. Jasnow
Anisotropic classical Heisenberg ferromagnet. *Bulletin of the American Physical Society*, 1:92. 1968.
- With D. Jasnow, M. A. Moore
Spin-spin correlation function of the three-dimensional Ising ferromagnet above the Curie temperature. *Physical Review Letters*, 22:940-43.
- Renormalization of the linked-cluster expansion for a classical magnet. *Physical Review*, 185, 2:805-15.
- With M. Fejer, M. A. Moore
The scaling form of the spin-spin correlation function of the three-dimensional Ising ferromagnet above the Curie temperature. *Physical Review Letters*, 22:1382-85.
- WYLD, HENRY W., JR., Professor
Articles
With J. Boguta
Dynamical calculations of pseudoscalar and axial-vector meson parameters using the relativistic Lippmann-Schwinger equation. *Physical Review*, 179:1330-37.
- With L. M. Jones
Regge residues in the Veneziano model. *Physical Review Letters*, 23:814-16.
- WYMAN, MARVIN EUGENE, Professor
See Nuclear Engineering.
- YAVIN, AVIVI I., Professor
Articles
With F. Merchez, R. A. Hoffswell, R. Bouchez
L'Excitation du niveau 0- de 3.56 MeV de ${}^6\text{Li}$ par diffusion (p, p') de A 16 MeV. *Le Journal de Physique*, 29:969-72. 1968.
- YOON, DUK N., Research Associate
Articles
With D. Miliotis
Existence of air-gaps in specimen-electrode contacts and their effects on dielectric relaxation phenomena in KCl and NaCl. *Journal of Physics and Chemistry of Solids*, 30:1241-49.
- DOCTORAL DISSERTATIONS
Anderson, Gordon W. (W. D. Compton, Adviser), Structural characterization and optical transmission studies of vanadate glasses.
- Bachrach, Robert Z. (F. C. Brown, Adviser), Excitons in the thalloses halides.
- Blossey, Daniel F. (P. Handler, Adviser), Electric field effects on optical absorption by excitons in semiconductors.
- Blouke, Morley M. (N. Holonyak, Adviser), Current oscillations in long Zn-doped Si p-i-n diodes.
- Buffa, Anthony J., Jr. (M. K. Brussel, Adviser), 13 to 27 MEV helium-3 elastic scattering from several light nuclei.
- Calarco, John R. (A. O. Hanson, Adviser), Photoneutron spectra from monoenergetic photons on Pb^{208} in the giant resonance.
- Carron, Neal J. (R. L. Schult, Adviser), On-shell current algebra and the radiative leptonic decays of pions and kaons.
- Christoe, Charles W. (H. G. Drickamer, Adviser), The effect of high pressure on the quadrupole interaction in iron-fluorine compounds.
- Cook, Dwight D. (H. Frauenfelder, Adviser), Search for fractionally charged particles in terrestrial samples.
- Cornell, Edward K. (C. P. Slichter, Adviser), Spin-flip scattering of conduction electrons from impurities in molten sodium.
- Faiman, David (H. W. Wyld, Jr., Adviser), Use of simple-harmonic forces in the non-relativistic Quark model.
- Fain, Samuel C., Jr. (D. Lazarus, Adviser), Combined x-ray and thermal conductivity study of hexagonal-close-packed helium-4.
- Fenner, Wayne R. (M. V. Klein, Adviser), Raman scattering from the hydroxyl ion in alkali halides.
- Fredericks, George E. (C. P. Slichter, Adviser), The thermal expansion of ammonium chloride near the order-disorder transition.
- Gordon, Alan (J. Koehler, Adviser), Stage III annealing of electron irradiated silver.
- Gubser, Donald U. (D. E. Mapother, Adviser), Superconductivity of dilute indium-thallium alloys.
- Hamblen, David G. (D. E. Mapother, Adviser), The critical magnetic field curves of superconducting molybdenum and cadmium above 0.03°K.
- Harris, Richard E. (D. M. Ginsberg, Adviser), Transmission of far infrared radiation through thin films of superconducting amorphous bismuth and gallium.
- Herzo, Dennis P. (L. J. Koester, Jr., Adviser), A comparison of the positive and negative tau prime partial decay rates for kaons.

- Hetrick, Robert E. (W. D. Compton, Adviser), The effects of applied uniaxial stress on broad band color center spectra in alkali halides.
- Hubin, Wilbert N. (D. M. Ginsberg, Adviser), Electron tunneling into superconducting mercury films below one degree kelvin.
- Jasnow, David M. (M. Wortis, Adviser), High-temperature critical indices for the classical anisotropic Heisenberg model.
- Laramore, George E. (L. P. Kadanoff, Adviser), Topics in transport phenomena near the critical point.
- Lewis, Edwin A. (C. P. Slichter, Adviser), Heat capacity of gadolinium near the Curie point.
- Mather, Lauren R. (D. G. Ravenhall, Adviser), Lorentz contraction effects in the electromagnetic form factors of relativistic two-body bound systems.
- Palciauskas, Vytautas V. (L. P. Kadanoff, Adviser), Theory of the two-dimensional Ising model with random impurities.
- Papioannou, Gregory M. (J. D. Stack, Adviser), Photon decay rate of sigma plus from unsubtracted dispersion relations.
- Schafer, Elton D. (U. E. Kruse, Adviser), A-2 meson production in PI-minus proton interactions at five BeV.
- Schultz, Peter F. (E. L. Goldwasser, Adviser), XI-minus hyperon production in K-minus proton interactions at 5.5 BeV/c.
- Schwartz, Paul M. (C. P. Slichter, Adviser), The heat capacity of ammonium chloride near the order-disorder transition.
- Schwenker, Robert O. (A. V. Granato, Adviser), Plane wave sound radiation from mobile dislocation walls.
- Shapiro, Alexander (R. D. Sard, Adviser), The PI-minus proton omega channel in PI-minus proton interactions at five BeV.
- Spencer, Paul R. (C. P. Slichter, Adviser), The sensitivity of nuclear magnetic double resonance.
- Stanton, Richard H. (A. V. Granato, Adviser), Time and temperature dependence of stimulated Brillouin scattering in fused silica.
- Staples, John W. (A. O. Hanson, Adviser), Photoproduction of neutral pions in helium by 335 MEV Bremsstrahlung.
- Steele, David L. (J. D. Sullivan, Adviser), Feynman diagram models of daughter Regge trajectories.
- Stutzke, Richard D. (A. Abashian, Adviser), Search for the decay of neutral short-lived K mesons into two muons.
- Tasch, Aloysius F., Jr. (C. T. Sah, Adviser), Studies of thermal emission rates and optical cross sections of carriers at gold centers in silicon using the impurity photovoltaic effect.
- Terreault, Bernard (U. E. Kruse, Adviser), Production of three charged pions in PI-minus proton interactions at 5 BeV/c.
- Tumolillo, Thomas A. (H. Frauenfelder, Adviser), A Mössbauer study of divalent iron in silver chloride crystals.
- Wells, James E. (P. Handler, Adviser), Piezorefractance of gallium arsenide.

PHYSIOLOGY AND BIOPHYSICS

- ADES, HARLOW W., Professor
See Electrical Engineering.

- ANDERSON, JOHN D., Professor
Articles
With S. J. Sheen, F. B. Galey, D. M. Miller, T. J. Bargman, D. A. Carter
Sol-gel differences in plasmodia of the acellular slime mold, *Physarum polycephalum*. *BioScience*, 19:1003-05.
- ASHBY, WILLIAM R., Professor
See Electrical Engineering.
- AVADHANI, NARAYAN G., Research Associate
Articles
With B. M. Mehta, D. V. Rege
Genetic transformation in *Escherichia coli*. *Journal of Molecular Biology*, 42:413-23.
- BUETOW, DENNIS E., Associate Professor
Articles
With P. J. Buchanan
Isolation of phosphorylating mitochondria from *Astasia longa*. *Life Sciences*, 8:1099-1102.
With K. E. Schuit
Phosphorus and the growth of *Euglena gracilis*. *Journal of Protozoology*, 15:770-73.
- CONNOR, JOHN A., Assistant Professor
Articles
Burst activity and cellular interaction in the pacemaker ganglion of the lobster heart. *Journal of Experimental Biology*, 50:275-95.
- DONCHIN, EMANUEL, Associate Professor
See Psychology.
- DUCOFF, HOWARD S., Professor
Articles
With T. C. H. Yang
Radiosensitivity studies of X-irradiated *Tribolium castaneum* larvae. *Radiation Research*, 39:643-54.
- DUNN, FLOYD, Professor
See Electrical Engineering.
- GORSKI, JACK, Professor
Articles
With A. Notides
Estrogen control of uterine growth: synthesis of specific uterine proteins. In *Biochemistry of cell division*, ed. by Baserga, Charles C. Thomas, Springfield, Illinois, pp. 57-76.
With G. Shyamala, D. Toft
Interrelationships of nuclear and cytoplasmic estrogen receptors. In *Current topics in developmental biology*, ed. by Monroy and Moscona, Academic Press, New York, pp. 149-67.
With D. Toft, G. Shyamala, D. Smith
Hormone receptors: studies on estrogen binding to the uterus. In *Ovum implantation*, ed. by Shelesnyak and Marcus, Gordon and Breach, New York, pp. 141-79.
With J. Clark
Estrogen receptors: an evaluation of cytoplasmic-nuclear interactions in a cell free system and a method of assay. *Biochimica et Biophysica Acta*, 192:508-15.
With G. Shyamala
Estrogen receptors in the rat uterus: studies on the interaction of cytosol and nuclear binding sites. *Journal of Biological Chemistry*, 244:1097-1103.

GOVINDJEE, Professor

See Botany.

HAZEL, JEFFREY R., N.D.E.A. Fellow

Articles

The effect of thermal acclimation upon brain acetylcholinesterase activity of *Carassius auratus* and *Fundulus heteroclitus*. *Life Sciences*, 8, 2:775-84.

HEATH, JAMES E., Associate Professor

Articles

With P. A. Adams

Temperature regulation and heat production in insects. In *Experiments in comparative biochemistry and physiology*, vol. II, ed. by G. A. Kerkut, Academic Press, London, pp. 275-93.

With R. G. Northcutt, R. P. Barber

Rotational optokinetic in reptiles and its bearing on pupillary shape. *Zeitschrift für vergleichende Physiologie*, 62:75-86.

Reviews

Life in arid regions. A review of *Desert biology*, vol. I, ed. by G. W. Brown, Jr., *Science*, 164:1045-46.

HERTIG, BRUCE A., Associate Professor

See Mechanical and Industrial Engineering.

JENDRASIAK, GORDON L., Assistant

Professor

Articles

The effect of iodine on the electrical resistance of lipid bilayer membranes. *Chemistry and Physics of Lipids*, 3:98.

JOB, DONALD D., U.S.P.H. Trainee

Articles

Ionic basis of intestinal electrical activity. *American Journal of Physiology*, 217:1534-41.

JOHNSON, ROBERT E., Professor

Articles

With T. Morimoto, F. D. Robbins

The excretion of solutes in human eccrine sweat. In *The exocrine glands*, ed. by Botelho, Brooks, and Shelley, University of Pennsylvania Press, Philadelphia, pp. 105-29.

With M. F. Curvey

A bibliography of Sir John Richardson (1787-1865) — printed books. *Journal of the Society for the Bibliography of Natural History*, 5:202-17.

With J. C. Fasciolo, G. L. Totel

Antidiuretic hormone and human eccrine sweating. *Journal of Applied Physiology*, 27:303-07.

With B. B. Johnson, F. Sargent, II

Sodium and chloride in eccrine sweat of men and women during training with acetyl-B-methylcholine. *Journal of Investigative Dermatology*, 53:116-21.

LANG, FREDERICK, U.S.P.H. Trainee

Articles

With B. C. Abbott, I. Parnas

Physiological properties of the heart and cardiac ganglion of *Limulus polyphemus*. *Comparative Biochemistry and Physiology*, 28:149-58.

With B. C. Abbott, I. Parnas, W. Parmley,

E. Sonnenblick

Physiological and pharmacological properties

of *Limulus* heart. *Experientia, Supplement*, 15:232-43.

With I. Parnas, B. C. Abbott

Electrophysiological properties of *Limulus* heart and effect of drugs. *American Journal of Physiology*, 217:1814-22.

With I. Parnas, B. C. Abbott, B. Shapiro

Neuromuscular system of *Limulus* leg closer muscle. *Comparative Biochemistry and Physiology*, 26:467-78. 1968.

LARSEN, JOSEPH R., Professor

See Entomology.

NALBANDOV, ANDREW V., Professor

See Animal Science.

PAGE, CHARLES H., U.S.P.H. Trainee

Articles

Electrophysiological study of auditory responses in the goldfish brain. *Journal of Neurophysiology*, 33:116-28.

With A. M. Sutterlin

Visual-auditory unit responses in the goldfish tectum. *Ibid.*, pp. 129-36.

PROSSER, C. LADD, Professor

Articles

Principles and general concepts of adaptation. *Environmental Research*, 2:404-16.

With J. Liu, D. D. Job

Ionic dependence of slow waves and spikes in intestinal muscle. *American Journal of Physiology*, 217:1542-47.

With A. M. Sutterlin

Electrical properties of goldfish optic tectum. *Journal of Neurophysiology*, 33:36-45.

Reviews

Vergleichende Physiologie. Band VI: Blut und Herz, by W. von Buddenbrock. *The Quarterly Review of Biology*, 44:237.

SLEATOR, WILLIAM W., Professor and

Head of Department

Articles

With T. de Gubareff

Spontaneous paired-pacing in human atrial muscle. In *Paired pulse stimulation of the heart*. The Rockefeller University Press, pp. 107-19. 1968.

The control of spike duration by calcium in human and chimpanzee atrial muscle. *Proceedings of the International Union of Physiological Sciences (XXIV International Congress)*, 7:404. 1968.

With G. R. Little

Calcium exchange and contraction strength of guinea pig atrium in normal and hypertonic media. *Journal of General Physiology*, 54:494-511.

SWEENEY, DARYL C., Assistant Professor

See Zoology.

SYBESMA, CHRISTIAAN, Associate

Professor

Articles

Two light-induced reactions in photosynthetic bacteria. In *Progress in photosynthesis*, ed. by H. Metzner, International Union of Biological Sciences, Tübingen, Germany, vol. II, pp. 1091-1100.

Light-induced reactions of P890 and P800 in the purple photosynthetic bacterium, *Rhodospirillum rubrum*. *Biochimica et Biophysica Acta*, 172:177-79.

With B. Kok

Photosynthetic electron transport induced by flashing light in the purple photosynthetic bacterium, *Rhodospirillum rubrum*. *Ibid.*, 180:410-13.

TAYLOR, AUBREY B., Professor

Books

With J. S. Willis

Elementary Human Physiology, revised edition, Burgess Publishing Co., Minneapolis, Minnesota, 113 pp.

TWARDOCK, A. ROBERT, Associate Professor

See Veterinary Medicine.

VON FOERSTER, HEINZ M., Professor

See Electrical Engineering.

WILLIAMS, JUDITH O., U.S.P.H. Trainee

Articles

Observation on the interaction of a valyl-adenylate-synthetase complex with its transfer ribonucleic acid and the implication thereof. *Journal of Bacteriology*, 97:460-61.

WILLIS, JOHN S., Associate Professor

Books

With Aubrey B. Taylor

Elementary Human Physiology, revised edition, Burgess Publishing Co., Minneapolis, Minnesota, 113 pp.

Articles

With P. F. Baker

On the number of pumping sites in cell membranes. *Biochimica et Biophysica Acta*, 183:646-49.

With Nancy Ma Li

Cold resistance of Na-K-ATPase of renal cortex of the hamster, a hibernating mammal. *American Journal of Physiology*, 217:321-26.

WOOD, JACK D., U.S.P.H. Trainee

Articles

Electrophysiological and pharmacological properties of the stomach of the squid, *Loligo pealii* (Lesueur). *Comparative Biochemistry and Physiology*, 30:813-24.

DOCTORAL DISSERTATIONS

Anderson, Thomas R. (C. L. Prosser, Adviser), The incorporation of radioactive acetate and radioactive inorganic phosphate into the phosphatides of various tissues from 5°C. and 25°C.-acclimated goldfish (*Carassius auratus*).

Buschmann, Robert J. (A. B. Taylor, Adviser), Study of the intestinal absorption of lipids.

Freed, James M. (C. L. Prosser, Adviser), Comparative study of temperature effects on phosphofructokinase of *Paralithodes camtschatica* and cold- and warm-acclimated *Carassius auratus*.

Kem, William R. (B. C. Abbott, Adviser), A chemical investigation of nemertine toxins.

Kimzey, Stephen L. (J. S. Willis, Adviser), Cold resistance of cation regulation in erythrocytes of hibernators.

Meiss, Richard A. (C. L. Prosser, Adviser), Some ultrastructural and mechanical studies of cat intestinal smooth muscle.

Moberg, Gary P. (C. L. Prosser, Adviser), The action of endotoxins upon the hypothalamic-pituitary-adrenal system.

Molé, Paul A. (R. E. Johnson, Adviser), Acute alterations in the excretion of urinary nitrogen and sulfur constituents with exercise and diet.

Page, Charles H. (C. L. Prosser, Adviser), An electrophysiological study of the auditory responses in the goldfish brain.

Schuit, Kenneth E. (D. E. Buetow, Adviser), Isolation and partial characterization of the RNA from streptomycin-bleached *Euglena gracilis*.

Tyrey, Elmer L. (A. V. Nalbandov, Adviser), The effect of anterior hypothalamic lesions on immunogenesis in the rat.

Williams, Bill A. (J. E. Heath, Adviser), Central nervous control of temperature regulation of a hibernator.

Wood, Jackie D. (C. L. Prosser, Adviser), An electrophysiological and pharmacological study of the function of the intrinsic nervous system in the small intestine.

PLANT PATHOLOGY

BLACK, LINDSAY M., Professor

See Botany.

BRITTON, MICHAEL P., Associate Professor

Articles

Turfgrass diseases. In *Turfgrass science*, ed. by Hanson and Juska, Agronomy Monograph No. 14, American Society of Agronomy, Inc., Madison, Wisconsin, pp. 288-335.

With C. F. Hodges

Infection of merion bluegrass, *Poa pratensis*, by stripe smut, *Ustilago striiformis*. *Phytopathology*, 59:301-04.

BURNS, EDWARD E., Assistant Professor

Articles

With M. J. Starzyk, D. L. Lynch

Detection of plant virus symptoms with infrared photography. *Transactions of the Illinois Academy of Science*, 62, 1:106-09.

CARTER, J. CEDRIC, Professor

Articles

With F. O. Dodd

Discovery and distribution of *Fusicoccum canker* of Russian olive in Illinois. *Plant Disease Reporter*, 53:392.

CHAMBERLAIN, DONALD W., Associate Professor

Articles

With J. W. Gerdemann

Galls containing oospores of an unidentified fungus found as a contaminant of soybean seed. *Plant Disease Reporter*, 53:978-79.

With J. D. Paxton

Phytoalexin production and disease resistance in soybeans as affected by age. *Phytopathology*, 59:775-77.

FORSBERG, JUNIUS L., Professor

Articles

Results of 1968 gladiolus disease control tests. *Illinois State Florists Association Bulletin*, 300:4, 10.

An unexpected effect of benomyl on two gladiolus varieties. *Plant Disease Reporter*, 53:318-19.

With W. Hartstirn

A transmissible disorder of gladiolus flowers. *Plant Disease Reporter*, 53:818-19.

GERDEMANN, JAMES W., Professor

Articles

With L. E. Gray

Uptake of phosphorus-32 by vesicular-arbuscular mycorrhizae. *Plant and Soil*, 30, 3:415-22.

With D. W. Chamberlain

Galls containing oospores of an unidentified fungus found as a contaminant of soybean seed. *Plant Disease Reporter*, 53:978-79.

GOTTLIEB, DAVID, Professor

Articles

With T. G. Obrig, Jana Cerna

Characteristics of *in vitro* protein synthesis systems from *Rhizoctonia solani* and *Sclerotium bataticola*. *Phytopathology*, 59:187-92.

With F. M. Huber

Enzymes of glucose catabolism in *Monilinia fructicola*. *Mycopathologia et Mycologia Applicata*, 37:49-56.

With E. Schlösser, P. D. Shaw

Sterols in species of *Pythium*. *Archives für Mikrobiologie*, 66:147-53.

With G. Nicolas

Mode of action of lomofungin. *Applied Microbiology*, 18:35-40.

With R. K. Tripathi

Mechanism of action of the antifungal antibiotic pyrrolnitrin. *Journal of Bacteriology*, 100:310-18.

With H. P. Molitoris, J. L. Van Etten

Age induced changes of components and metabolism of fungi. *Proceedings Second Scientific Symposium and Seventh International Congress on Mushroom Science*, Hamburg, pp. 59-67. 1968.

With W. T. Shier, K. L. Rinehart, Jr.

Preparation of four new antibiotics from a mutant of *Streptomyces fradiae*. *Proceedings National Academy of Sciences*, 63: 198-204.

HARTSTIRN, WALTER, Assistant Professor

Articles

With J. L. Forsberg

A transmissible disorder of gladiolus flowers. *Plant Disease Reporter*, 53:818-19.

HOOKER, ARTHUR L., Professor

Articles

Widely based resistance to rust in corn. In *Disease consequences of intensive and extensive culture of field crops*, ed. by J. Artie Browning, Iowa Agriculture and Home Economics Experiment Station, Special Report 64, pp. 28-34.

With C. G. Van Dyke

The Z reaction in corn to *Puccinia sorghi*. *Phytopathology*, 59:33-36.Ultrastructure of host and parasite in interactions of *Zea mays* with *Puccinia sorghi*. *Phytopathology*, 59:1934-46.

LINN, MANSON B., Professor

Articles

With O. N. Nesheim

Deleterious effect of certain fungitoxicants on the formation of mycorrhizae on corn by *Endogone fasciculata* and on corn root development. *Phytopathology*, 59:297-300.

MALEK, RICHARD B., Assistant Professor

Articles

Population fluctuations and observations of the life cycle of *Xiphinema americanum* associated with cottonwood (*Populus deltoides*) in South Dakota. *Proceedings of the Hel-**minthological Society of Washington*, 36, 2:270-74.

PAXTON, JACK D., Assistant Professor

Articles

With D. W. Chamberlain

Phytoalexin production and disease resistance in soybeans as affected by age. *Phytopathology*, 59:775-77.

POWELL, DWIGHT, Professor

Articles

Experiments on apple scab and powdery mildew. *Transactions of the Illinois State Horticulture Society*, 102:110-11.

With H. S. Gill

Serological relationships of physiologic races A-1 to A-8 of *Phytophthora fragariae*. *Phytopathology*, 59:261-62.

With A. G. Otterbacher, C. C. Zych

The induction of stelar reddening in strawberry roots. *Plant Disease Reporter*, 53: 794-97.

With M. A. Strobbe

The isolation of *Diplocarpon earliana* from infected strawberry leaves. *Plant Disease Reporter*, 53:849.

With Ho-Yuan Liu

Fungicidal activity of Bordeaux-zineb mixtures. *Taiwan Plant Protection Bulletin*, 11, 4:133-36.

SCHOENEWEISS, DONALD F., Assistant Professor

Articles

Diseases of evergreens. In *Handbook on conifers*, ed. by Teuscher, Dietz, and McGourty, Brookland Botanic Garden. *Plants and Gardens*, 25, 2:58-64.Susceptibility of evergreen hosts to the juniper blight fungus, *Phomopsis juniperovora*, under epidemic conditions. *Journal American Society of Horticulture*, 94, 6:609-11.

SHAW, PAUL D., Associate Professor

Articles

With E. Schlösser, D. Gottlieb

Sterols in species of *Pythium*. *Archives für Mikrobiologie*, 66:147-53.

With A. B. De Angelo

Role of ammonium ion in the biosynthesis of β -nitropropionic acid. *Journal of Bacteriology*, 99:463-68.

SINCLAIR, JAMES B., Professor

Articles

With A. I. Allam

Degradation of DMOC (Vitavax) in cotton seedlings. *Phytopathology*, 59:1548-49.

With A. I. Allam, P. E. Schilling

Uptake of Vitavax (DMOC) by germinating cottonseed. *Ibid.*, pp. 265-66.Laboratory and greenhouse evaluations of four systemic fungicides. *Ibid.*, 1659-62.

With I. E. M. Darrag

Evidence for systemic protection against *Rhizoctonia solani* with chloroneb in cotton seedlings. *Ibid.*, pp. 1102-05.

With Z. M. El-Tobshy

Pathological relationship between plant and animal isolates of *Geotrichum candidum* in avian egg. *Ibid.*, pp. 532-35.Pathogenicity of plant and animal isolates of *Geotrichum candidum* in the turtle. *Mycologia*, 61:473-80.

With B. T. Kirk, E. N. Lambremont

Translocation of ^{14}C -labeled chloroneb and

DMOG in cotton seedlings. *Phytopathology*, 59:1473-76.

TAYLOR, DONALD P., Professor

Articles

With D. A. Chin

Sexual attraction and mating patterns in *Cylindrocorypus longistoma* and *C. curzii* (Nematoda: Cylindrocoryporidae). *Journal of Nematology*, 1:313-17.

Gametogenesis and chromosome complement in *Cylindrocorypus longistoma* and *C. curzii*. *Nematologica*, 15:525-29.

With I. A. Siddiqui

Feeding mechanisms of *Aphelenchoides bi-caudatus* on three fungi and on alga. *Ibid.*, pp. 503-09.

THOMPSON, MARY RUTH, Assistant

Articles

Electron microscopy technique: quick dip method for preparing plant intracellular ultraparticulates. *Transactions of the Illinois State Academy of Science*, 62, 1:106-09.

THORNBERRY, HALBERT H., Professor

Articles

With Y. L. Nene

Tobacco mosaic virus: bean infection inhibition by ribonuclease. *Indian Phytopathology*, 22:92-98.

DOCTORAL DISSERTATIONS

Allen, Paris M. (D. Gottlieb, Adviser), Mechanism of action of thiabendazole [2-(4' thiazolyl) benzimidazole].

Chiu, Dudley S. (D. P. Taylor, Adviser), Developmental biology and factors influencing development and reproduction of *Cylindrocorypus longistoma* and *C. curzii* (Nematoda: Cylindrocoryporidae).

Gairola, Chandrachuranand (D. Powell, Adviser), A study of the perennial canker of peach, with emphasis on the physiology of causal organism as related to pathogenesis.

Liu, Ho-Yuan (L. M. Black, Adviser), Leaf-hopper-borne viruses on vector-cell monolayers.

McLaughlin, James L. (M. B. Linn, Adviser), The influence of certain fungitoxicants and environmental factors on the growth and reproduction of *Diplodia zeae* (Schw.) Lev.

Obrig, Tom G. (D. Gottlieb, Adviser), *In vitro* protein synthesis and aging in fungi.

Siddiqui, Islam A. (D. P. Taylor, Adviser), Studies on host-parasite relationships and developmental biology of *Meloidogyne naasi* Franklin, 1965.

POLITICAL SCIENCE

BERDAHL, CLARENCE A., Professor
Emeritus

Bulletins and Technical Reports

With C. M. Eichelberger, and others

The United Nations and the bed of the sea (19th report of the commission to study the organization of peace). Commission to Study the Organization of Peace, New York, 30 pp.

With C. M. Eichelberger, L. B. Sohn, and others

The United Nations: the next twenty-five years (20th report of the commission to study the organization of peace). *Ibid.*, 70 pp.

Reviews

The impact of Negro voting: the role of the vote in the quest for equality, by William R. Keech. *Annals of the American Academy of Political and Social Science*, 384:148-49.

CARMEN, IRA H., Associate Professor

Articles

The president, politics and the power of appointment: Hoover's nomination of Mr. Justice Cardozo. *Virginia Law Review*, 55, 4:616-59.

CARROLL, BERENICE A., Assistant
Professor

Articles

History and peace research. *Journal of Peace Research*, 4:287-93.

How wars end: an analysis of some current hypotheses. *Ibid.*, pp. 295-320.

DOUGLAS, STEPHEN A., Assistant
Professor

Reviews

The active society, by Amitai Etzioni. *Midwest Journal of Political Science*, 13:332-33.

FIELDS, A. BELDEN, Assistant Professor

Articles

The revolution betrayed: the French student revolt of May-June 1968. In *Students in revolt*, ed. by Seymour Martin Lipset and Philip G. Altbach, Houghton Mifflin Co., The Daedalus Library, Boston, pp. 127-66.

FISHER, GLENN W., Professor

See Government and Public Affairs.

GOLD, LOUIS H., Instructor

Books

With D. W. Abbott, E. T. Rogowsky

Police, politics, and race. The American Jewish Committee and the Joint Center for Urban Studies of the Massachusetts Institute of Technology and Harvard University, New York and Cambridge, 68 pp.

With M. G. Weinbaum

Presidential election: a simulation with readings. Holt, Rinehart and Winston, Inc., New York, 293 pp.

Bulletins and Technical Reports

With P. J. Meranto

Public attitudes on the Kerner commission findings: the case of Illinois. *Illinois Government*, 31:8 pp.

GOVE, SAMUEL K., Professor

See Government and Public Affairs.

HIGA, MIKIO, Visiting Assistant Professor

Articles

The three major elections in Okinawa in 1968. *Bulletin of Ryudai Institute of Humanities and Social Sciences*, 8:51-74.

Reviews

Okinawa: a tiger by the tail, by M. D. Morris. *Pacific Affairs*, 42, 4:530.

JOHNSON, KARL F., Assistant Professor

Articles

With H. Zeigler

Educational innovation and politico-economic systems. *Education and Urban Society*, 1, 1:161-76.

LONG, NORTON E., Professor

Articles

Creative politics and urban citizenship. In

The urban industrial frontier essays on social trends and institutional goals in modern communities, ed. by David Popenoe, Rutgers, New Brunswick, New Jersey, pp. 86-107.

Politics and ghetto perpetuation. In *Politics and the ghettos*, ed. by Roland L. Warren, Atherton, New York, pp. 31-44.

The urban crisis and urban affairs education. In *The urban crisis and urban affairs education*, ed. by Joseph Slavet, the Urban Institute, Boston University Monograph, Boston, pp. 18-29.

Reflections on presidential power. *Public Administration Review*, 24, 5:442-50.

Regionalism, strengthening government organization in changing communities. In *Proceedings of the fifth annual urban policy conference, October 3-4, 1968*. Institute of Public Affairs, University of Iowa, Iowa City, pp. 32-62.

MEEHAN, EUGENE, Professor

Books

Value judgment and social science: structures and processes. Dorsey Press, Homewood, Illinois, 159 pp.

Articles

Sheep, goats and roses. *Polity*, Summer, pp. 501-08.

MERANTO, PHILIP J., Assistant Professor

See Government and Public Affairs.

MERRITT, RICHARD L., Professor

Books

With G. J. Pyszka

The student political scientist's handbook. Schenkman Publishing Co., Cambridge, Massachusetts, 192 pp.

Articles

Noncontiguity and political integration. In *Linkage politics: essays on the convergence of national and international systems*, ed. by J. N. Rosenau, The Free Press of Glencoe, New York, pp. 237-72.

Nationenbildung: eine fallstudie. In *Theorien des sozialen wandels*, ed. by W. Zapf, Kiepenheuer & Witsch, Cologne and Berlin, pp. 56-72.

Political perspectives in Germany: the occupation period, 1945-1949. *Social Science Information*, 8, 2:129-40.

The student protest movement in West Berlin. *Comparative Politics*, 1, 4:516-33.

MILLER, ROBERT F., Associate Professor

Books

One hundred thousand tractors: the MTS and the development of controls in Soviet agriculture. Harvard University Press, Cambridge, 423 pp.

Reviews

Contemporary Soviet government, by L. G. Churchward; and Political power in the Soviet Union: a study of decision-making in Stalingrad, by Philip D. Stewart. *Slavic Review*, 29, 1:122-24.

MONYPENNY, PHILLIP, Professor and

Head of Department

Articles

State and local governments and the future course of federal grants-in-aid. In *Illinois state and local finance*, ed. by Glenn W. Fisher, University of Illinois, Institute of Government and Public Affairs, Urbana, pp. 89-97.

NAGEL, STUART S., Professor

Books

The legal process from a behavioral perspective. Dorsey Press, Homewood, Illinois, 413 pp.

Articles

Court curbing periods in American history. In *The impact of Supreme Court decisions*, ed. by Becker, Oxford Press, New York, pp. 35-47.

The tipped scales of American justice. In *New dimensions of freedom in America*, ed. by Wirt and Hawley, Chandler Publishers, San Francisco, pp. 221-33.

Judicial backgrounds and criminal cases. In *Crime and justice in society*, ed. by Quinney, Little Brown and Co., Boston, pp. 384-95.

Discrimination issues in public housing. *Legal Aid Briefcase*, 28, 3:89-94.

Ombudsmen among the poor. *Chicago Daily Law Bulletin*, 115:4.

PELTASON, JACK W., Professor of Political Science and Chancellor, University of Illinois at Urbana-Champaign

Books

Government by the people (7th ed.). Prentice-Hall, Englewood Cliffs, New Jersey, 864 pp.

Articles

Universities in jeopardy. *Journal of Risk and Insurance*, 36, 1:11-18.

PISCIOFFE, JOSEPH P., Assistant Professor

See Government and Public Affairs.

SCOTT, ROBERT E., Professor

Reviews

Revolution and counterrevolution; change and persistence in social structure, by S. M. Lipset. *Midwest Journal of Political Science*, 13:497-98.

Mexican militarism: the political rise and fall of the revolutionary army, 1910-1940, by Edward Lieuwen. *Ibid.*, pp. 672-73.

Political development in Latin America: instability, violence, and evolutionary change, by Martin C. Needler. *Ibid.*, pp. 672-73.

Latin America. Reform or revolution, ed. by James Petras and Maurice Zeitlin. *Hispanic American Historical Review*, 81:504-06.

The government executive of modern Peru, by Jack W. Hopkins. *Ibid.*, pp. 374-76.

THOMPSON, VICTOR A., Professor

Books

Bureaucracy and innovation. University of Alabama Press, University, Montgomery, 167 pp.

Articles

The innovative organization. In *Organizations and human behavior*, ed. by Carver and Sergiovanni, McGraw-Hill Book Co., New York, pp. 392-403.

WATSON, JOANNA M., Instructor

See Government and Public Affairs.

WELCH, SUSAN, Instructor

Articles

With S. K. Gove

The influence of state constitutional conventions on the future of higher education. *Educational Record*, 50:206-12.

DOCTORAL DISSERTATIONS

Byars, Robert S. (R. E. Scott, Adviser), Small group theory and political leadership

- in Brazil: the case of the Castelo Branco regime.
- Erikson, Robert S. (P. Monypenny, Adviser), A multivariate analysis of Congressional elections.
- Hall, Leland E. (C. B. Hagan, Adviser), The impact of electoral deadlock: new members and the 1965 session of the Illinois House.
- Heggan, Jon P. (R. E. Scott, Adviser), Political socialization in Colombia's schools: the impact of three secondary institutions on student political attitudes and behavior.
- Malecki, Edward S. (P. Monypenny, Adviser), Quantitative methods in the study of interest groups: the issue organization and national policy making.
- Murray, Michael A. (S. K. Gove, Adviser), The House Education-Labor Committee and the 1967 poverty controversy: a study of Congressional avoidance.
- Thompson, Robert S. (P. Monypenny, Adviser), Political rebellion: toward a framework for analysis.

PRESIDENT'S OFFICE

HENRY, DAVID D., President

Articles

- Inaugural address. In *Builders of American universities (inaugural addresses of college and university presidents)*, ed. by Weaver, Southwest Baptist College Press, vol. III, pp. 175-85.
- Jane Addams' Hull-House. In *Eighty years at Hull-House*, ed. by Davis and McCree, Quadrangle Books, Inc., Chicago, pp. 240-41.
- The practical or clinical aspects of training. *Tenth Congress of the Universities of the Commonwealth, 1968, Report of Proceedings*, pp. 157-64.
- Something old, something new: the Southern Illinois University charter day convocation address. *Alumnus* (Southern Illinois University) 30, 10:12, 13, 31-32.

PSYCHOLOGY

ADAMS, JACK A., Professor

Articles

- Acquisition of motor responses. In *Learning: processes*, ed. by M. H. Marx, Macmillan, Toronto, pp. 481-94.
- Forgetting of motor responses. *Ibid.*, pp. 495-507.

With H. I. Thorsheim, J. S. McIntyre

- Item length, acoustic similarity, and natural language mediation. *Journal of Experimental Psychology*, 80, 1:39-46.
- Short-term memory and acoustic similarity. *Psychonomic Science*, 15, 2:77-78.

With J. S. McIntyre, H. I. Thorsheim

- Natural language mediation and interitem interference in paired-associate learning. *Ibid.*, 16, 2:63-64.
- Response feedback and verbal retention. *Journal of Experimental Psychology*, 82, 2:290-96.

AJZEN, ICEK, Assistant Professor

Articles

With M. Fishbein

- The prediction of behavioral intentions in a choice situation. *Ibid.*, 5, 4:400-16.

BATCHELDER, WILLIAM H., Assistant Professor

Articles

With T. O. Nelson

- Forgetting in short-term recall: all-or-none or decremental. *Journal of Experimental Psychology*, 82:96-106.

BECKER, WESLEY C., Professor
See Education.

BERNSTEIN, DOUGLAS A., Assistant Professor

Articles

- The modification of smoking behavior. *Psychological Bulletin*, 71:418-40.

With G. J. Allen

- Fear survey schedule (II): normative data and factor analyses based upon a large college sample. *Behaviour Research and Therapy*, 7:403-07.

With T. M. Alloway

- On the use of alternative organisms. *Journal of Applied Psychology*, 53:506-09.

BIJOU, SIDNEY W., Professor

Articles

- Modern meaning of instincts. In *William James: unfinished business*, ed. by R. B. MacLeod, American Psychological Association, Washington, D.C., pp. 31-35.

- Promoting optimum learning in children. In *Planning for better learning*, ed. by P. Wolf and R. MacKeith, Spastics International Medical Publications, London, pp. 58-67.

With R. F. Peterson, F. R. Harris,
E. K. Allen, M. S. Johnston

- Methodology for experimental studies of young children in natural settings. *Psychological Record*, 19:177-210.

BOGARTZ, RICHARD S., Associate Professor

Articles

- An asymptotic likelihood ratio test for a Markov chain with Bernoullian or contingent input. *Psychometrika*, 33: 405-22. 1968.

- Short-term memory in binary prediction by children: some stochastic information processing models. In *Psychology of learning and motivation*, 3, ed. by G. H. Bower and J. T. Spence, Academic Press, New York, pp. 299-391.

BREWER, WILLIAM F., Assistant Professor

Articles

- Visual memory, verbal encoding and hemispheric localization. *Cortex*, 5:145-51.

With H. Schnell, R. Shaw

- A psycholinguistic approach to study of the language deficit in aphasia. *Journal of Speech and Hearing Research*, 12:794-806.

BROWN, ANN L., Visiting Assistant Professor

Articles

- Differential reward positioning and children's performance on dimension-abstracted oddity problems. *Psychonomic Science*, 17:251-53.

CATTELL, RAYMOND B., Professor

Books

With Mary D. L. Cattell

- Handbook for the Jr.-Sr. High School Personality Questionnaire. Institute for Per-

sonality and Ability Testing, Champaign, Illinois, 88 pp.

Articles

The diagnosis of schizophrenia by questionnaires and objective personality tests. In *Schizophrenia, current concepts and research*, ed. by D. V. Siva Sankar, PJD Publications, Hicksville, New York, pp. 104-24.

Are I. O. tests intelligent? *Psychology Today*, March, pp. 56-62.

Is field independence an expression of the general personality source trait of independence, U. I. 19? *Perceptual and Motor Skills*, 28:865-66.

The profile similarity coefficient, r_p in vocational guidance and diagnostic classification. *The British Journal of Educational Psychology*, 39:131-42.

Comparing factor trait and state scores across ages and cultures. *Journal of Gerontology*, 24, 3:348-60.

With Karel R. Balcar, J. L. Horn, J. R. Nesselrode

Factor matching procedures: an improvement of the s index; with tables. *Educational and Psychological Measurement*, 29, 4:781-92.

With Laura S. Bolton

What pathological dimensions lie beyond the normal dimensions of the 16 P. F.? A comparison of MMPI and 16 P. F. factor domains. *Journal of Consulting and Clinical Psychology*, 33, 1:18-29.

With K. Rickels

Drug and placebo response as a function of doctor and patient type. In *Psychotropic drug response: advances in prediction*, ed. by P. R. A. May and J. R. Wittenborn, Charles C. Thomas, Inc., Springfield, Illinois.

With G. Schroder, A. Wagner

Verification of the structure of the 16 P. F. questionnaire in German. *Psychologische Forschung*, 32:369-86.

CLORE, GERALD L., Assistant Professor

Articles

With D. Byrne, W. Griffitt

Attitude reinforcement effects as a function of stimulus homogeneity-heterogeneity. *Journal of Verbal Learning and Verbal Behavior*, 7, 5:962-64. 1968.

With A. V. Gormly

Attraction, dogmatism, and attitude similarity-dissimilarity. *Journal of Experimental Research in Personality*, 4, 1:9-13.

With J. C. Stapert

Attraction and disagreement-produced arousal. *Journal of Personality and Social Psychology*, 13, 1:64-69.

COHEN, JOZEF, Professor

Books

Sensation and perception. I. Vision. SS 4, Eyewitness series in psychology. Rand-McNally and Co., Chicago, 76 pp.

Sensation and perception. II. audition and the minor senses. SS 5, *Ibid.*, 69 pp.

Operant behavior and operant conditioning. SS 11, *Ibid.*, 64 pp.

Complex learning. Animal learning and theory. SS 12A, *Ibid.*, 46 pp.

Complex learning. Human learning and memory. SS 12B, *Ibid.*, 49 pp.

Personality dynamics. SS 17, *Ibid.*, 64 pp.

Personality assessment. SS 18, *Ibid.*, 76 pp.

COHEN, LESLIE B., Assistant Professor

Articles

Observing responses, visual preferences, and habituation to visual stimuli in infants. *Journal of Experimental Child Psychology*, 7:49-33.

COSTIN, FRANK, Professor

Articles

Some functions of objectives in teaching psychology. In *Conference on objectives in higher education*, University of London Institute of Education, December, pp. 109-16.

The scrambled sentence test: a group measure of hostility. *Educational and Psychological Measurement*, 29, 2:461-68.

DAVIS, JAMES H., Associate Professor

Books

Group performance. Addison-Wesley Publishing Co., Reading, Massachusetts, 115 pp.

Articles

Individual-group problem solving, subject preference, and problem type. *Journal of Personality and Social Psychology*, 13, 4:362-74.

With Louis A. Penner

Conformity and the "rational" use of unanimous majorities. *The Journal of Social Psychology*, 78:299-300.

DONCHIN, EMANUEL, Associate Professor

Books Edited

With D. B. Lindsley

Average evoked potentials—methods, results and evaluations. Government Printing Office, Washington, D. C., 400 pp.

Articles

Data analysis techniques in evoked potential research. In *Average evoked potentials methods research and evaluations*, ed. by Donchin and Lindsley, Government Printing Office, Washington, D.C., pp. 199-236.

Discriminant analysis and average evoked responses. *Electroencephalography and Clinical Neurophysiology*, 27:311-14.

With L. Cohen

Anticipation of relevant stimuli and evoked potentials: a reply to Naataahen. *Perceptual and Motor Skills*, 29:115-17.

ERIKSEN, CHARLES W., Professor

Articles

With T. Spencer

Rate of information processing in visual perception: some results and methodological considerations. *Journal of Experimental Psychology Monograph*, 79, 2:1-16.

With J. F. Collins

Temporal course of selective attention. *Ibid.*, 80, 2:254-61.

Visual perceptual rate under two conditions of search. *Ibid.*, pp. 3:489-92.

With P. H. Marshall

Failure to replicate a reported U-shaped visual masking function. *Psychonomic Science*, 15, 4:195-96.

With D. L. Schurman, O. Richter

N-channel tachistoscopes. *Behavioral Research Methods and Instrumentation*, 1, 3:119-22.

With M. E. Bowen

The effects of area and perimeter on detection rates. *Perception and Psychophysics*, 5, 1:37-40.

With D. L. Schurman

Summation and interaction of successive

masking stimuli in visual perception. *American Journal of Psychology*, 82, 3:320-32.

FISHBEIN, MARTIN, Associate Professor

Articles

With Nancy Wiggins

Dimensions of semantic space: a problem of individual differences. In *Semantic differential technique: a source book*, ed. by J. G. Snider and C. E. Osgood, Aldine Publishing Co., Chicago, pp. 183-93.

With Eva Landy, Grace Hatch

Some determinants of an individual's esteem for his least preferred co-worker: an attitudinal analysis. *Human Relations*, 22: 173-88.

A consideration of two assumptions underlying Fiedler's contingency model for prediction of leadership effectiveness. *American Journal of Psychology*, 82, 4:457-74.

With K. J. Kaplan

The source of beliefs, their saliency, and prediction of attitude. *Journal of Social Psychology*, 78:63-74.

With Icek Ajzen

The prediction of behavioral intentions in a choice situation. *Journal of Experimental Social Psychology*, 5:400-16.

GRAEN, GEORGE B., Assistant Professor

Articles

Instrumentality theory of work motivation: some experimental results and suggested modifications. *Journal of Applied Psychology Monograph*, 53, 25 pp.

Motivation of managers by Educational Testing Service. *Personnel Psychology*, 22: 91-94.

The motivated working adult, by Ray C. Hackman. *Ibid.*, 352-55.

GREENBERG, GORDON Z., Assistant Professor

Articles

Frequency-selectivity during amplitude discrimination of signals in noise. *Journal of the Acoustical Society of America*, 45: 1438-42.

Frequency-selective detection at three signal amplitudes. *Perception and Psychophysics*, 6:297-301.

HAMLIN, ROY M., Professor

Articles

Relative effectiveness of objective tests and symptom ratings in differentiating psychiatric disorders. *Proceedings of the American Psychological Association*, 4:511-12.

The stability of intellectual function in chronic schizophrenia. *The Journal of Nervous and Mental Disease*, 149:496-503.

HILL, KENNEDY T., Associate Professor

Articles

With J. B. Dusek

Children's achievement expectations as a function of social reinforcement, sex of S, and test anxiety. *Child Development*, 40: 547-57.

With D. T. Lekarczyk

Self-esteem, test anxiety, stress, and verbal learning. *Developmental Psychology*, 1: 147-54.

With B. E. Moely

Social reinforcement as a function of task instructions, sex of S, age of S, and base-

line performance. *Journal of Experimental Child Psychology*, 7:153-65.

With D. S. Montanelli

Children's achievement expectancies and performance as a function of two consecutive reinforcement experiences, sex of subject, and sex of experimenter. *Journal of Personality and Social Psychology*, 13:115-28.

With M. Rosenbaum

Effects of prior success-failure experiences and evaluation by E on institutionalized retardates' persistence and performance rate under positive social reinforcement. *Journal of Experimental Research in Personality*, 3:253-63.

HIRSCH, JERRY, Professor of Psychology and Zoology

Books

With G. Ksander

Behavior-genetic analysis. Wm. C. Brown Co. Publishers, Dubuque, Iowa, 37 pp.

Articles

With H. G. Murray

Heredity, individual differences, and psychopathology. In *Changing perspectives in mental illness*, ed. by Plog and Edgerton, Holt, Rinehart, and Winston, Inc., New York, pp. 596-627.

With S. A. Platt

The analysis of (typologically conceived) tropisms. *American Zoologist*, 8, 4:59.

With G. Ksander

Studies in experimental behavior genetics: V. negative geotaxis and further chromosome analyses in *Drosophila melanogaster*. *Journal of Comparative and Physiological Psychology*, 67, 1:118-22.

Reviews

With R. P. Johnson

Genetics: biology and behavior series. *Eugenics Quarterly*, 3:219-21.

With F. R. Yeatman

Bio-social hybrid vigor sought, Babel discovered. In *Contemporary psychology*, ed. by David C. Glass, 14, 3:138-39.

Early experience and the organization of behavior. "Developmental processes and behavior" series, by John Paul Scott. In *The Quarterly Review of Biology*, 44, 3:333-34.

A history of genetic psychology. The first science of human development, by Robert E. Grinker. *Ibid.*, 1:105-06.

HULIN, CHARLES L., Associate Professor

Books

With Patricia C. Smith, L. M. Kendall

The measurement of satisfaction in work and retirement. A strategy for the study of attitudes. Rand McNally and Co., Chicago, 186 pp.

Articles

Sources of variation in job and life satisfaction: the role of community and job-related variables. *Journal of Applied Psychology*, 53:279-91.

With H. P. Dachler

A reconsideration of the relationship between satisfaction and judged importance of environmental and job characteristics. *Organizational Behavior and Human Performance*, 4:252-66.

Reviews

Testing and fair employment, by James Kirkpatrick and others. *Monthly Labor Review*, 92, 6:82-83.

Motivation and organizational climate, by George H. Litwin and Robert A. Stringer. *Contemporary Psychology*, 14:670-71.

HUMPHREYS, LLOYD G., Professor

Articles

With D. R. Ilgen

Note on a criterion for the number of common factors. *Educational and Psychological Measurement*, 29:571-78.

With D. R. Ilgen, Diane McGrath, R. G. Montanelli

Capitalization on chance in rotation of factors. *Educational and Psychological Measurement*, 29:259-72.

With H. P. Dachler

Jensen's theory of intelligence. *Journal of Educational Psychology*, 60:419-26.

Jensen's theory of intelligence: a rebuttal. *Ibid.*, pp. 432-33.

HUNT, J. McVICKER, Professor

Books

The challenge of incompetence and poverty: papers on the role of early education. University of Illinois Press, Urbana, 304 pp.

Articles

The impact and limitations of the giant of developmental psychology. In *Studies in cognitive development: essays in honor of Jean Piaget*, ed. by Elkind and Flavell, Oxford Press, New York, pp. 3-66.

Has compensatory education failed? Has it been attempted? *Harvard Educational Review*, 39, 2:278-300.

Black genes—white environment. *Transaction*, 6, 7:12-22.

Parent and child centers: one alternative model. *The Clinical Psychologist*, 22, 2: 71-77.

Potpourri and the Hall-Nebraska "model." *Ibid.*, 3:127-36.

Graduate training: some dissents and suggestions. *Ibid.*, 4:182-88.

With N. S. Endler

Generalizability of contributions from sources of variance in the S-R inventories of anxiousness. *Journal of Personality*, 37, 1:1-24.

JAKOBOVITS, LEON A., Associate Professor

Articles

The physiology and psychology of second language learning. In *Britannica review of foreign language education*, ed. by Birksmaier, Encyclopaedia Britannica, Chicago, pp. 181-227.

A functional approach to the assessment of language skills. *Journal of English as a Second Language*, 4:63-76.

Research findings and FL requirements in colleges and universities. *Foreign Language Annals*, 2:436-56.

Second language learning and transfer theory: a theoretical assessment. *Language Learning*, 19:55-86.

Rhetoric and stylistics: some basic issues in the analysis of discourse. *College Composition and Communication*, 20:314-28.

The development of a cross-cultural graphic differential. *International Journal of Symbolology*, 1:28-52.

Some potential uses of the cross-cultural atlas of affective meanings. *Proceedings of the XI Congress of the Inter-American Society of Psychology*, 40:1-16.

Reviews

The psychology of communication, by George

Miller. *Contemporary Psychology*, 14: 156-57.

KAPPAUF, WILLIAM E., Professor

Articles

An empirical sampling study of the Dixon and Mood statistics for the up-and-down method of sensitivity testing. *American Journal of Psychology*, 82, 1:40-55.

Use of an on-line computer for psychophysical testing with the up-and-down method. *American Psychologist*, 24, 3:207-11.

McGRATH, JOSEPH E., Professor

Articles

With R. N. Kent

Task and group characteristics as factors influencing group performance. *Journal of Experimental Social Psychology*, 5:429-40.

MAIER, STEVEN F., Assistant Professor

Articles

With M. E. P. Seligman, R. L. Solomon

Pavlovian fear conditioning and learned helplessness: effects on escape and avoidance behavior of a) the CS-US contingency and b) the independence of the US and voluntary responding. In *Punishment*, ed. by Campbell and Church, Appleton-Century-Crofts, New York, pp. 299-342.

With D. Zahorik

Appetitive conditioning with recovery from thiamine deficiency as the unconditioned stimulus. *Psychonomic Science*, 17:309-11.

MALPASS, ROY S., Assistant Professor

Articles

Effects of attitude on learning and memory: the influence of instruction-induced sets. *Journal of Experimental Social Psychology*, 5, 4:441-53.

With J. Kravitz

Recognition for faces of own and other race. *Journal of Personality and Social Psychology*, 13, 4:330-34.

MENGES, ROBERT J., Assistant Professor

Articles

Student-instructor cognitive compatibility in the large lecture class. *Journal of Personality*, 37, 3:444-59.

MONTAGUE, WILLIAM E., Associate Professor

Articles

Category norms for verbal items in 56 categories: a replication and extension of the Connecticut Category Norms. *Journal of Experimental Psychology Monograph*, 80, 3, 2:1-46.

MOSS, C. SCOTT, Professor

Articles

Innovations in the experimental manipulation of dreams. In *Progress in clinical psychology*, ed. by Abt and Riess, Grune and Stratton, New York, pp. 114-35.

Experimental paradigms for the hypnotic investigation of dream symbolism. In *Semantic differential techniques*, ed. by Snider and Osgood, Aldine Publishing Co., Chicago, pp. 546-58.

Recent experiments in hypnotic and posthypnotic dreaming. In *Psychologische Aspekte der Hypnose in der klinischen Praxis*, ed. by Katzenstein, Veb Gustav Fischer Verlag, East Berlin, pp. 81-95.

MOWRER, O. HOBART, Research Professor of Psychology

Books

The new group therapy. (Japanese Translation, by Fusako Murashima Baba.) Seishin Book Co., Tokyo, 415 pp.

Articles

New directions in the understanding and management of depression. In *The future of psychotherapy*, ed. by C. Frederick, Little, Brown and Co., Boston, pp. 316-60.

Psychoneurotic defenses (including deception) as punishment-avoidance strategies. In *Punishment and aversive behavior*, ed. by B. A. Campbell and R. M. Church. New York, Appleton-Century-Crofts, pp. 449-66.

Too little and too late. *International Journal of Psychiatry*, 7:536-56.

Critique of Patterson's article, "A current view of client-centered or relationship therapy." *The Counseling Psychologist*, 1: 48-56.

Conflict, contract, conscience, and confession. *Trans-action*, 1:7-19.

Reviews

A great opportunity not exploited. Review of *Religion and medicine: essays on meaning, values, and health*, by David Belgum. *Contemporary Psychology*, 15:531-32.

OSGOOD, CHARLES E., Professor

See Communications Research.

PAUL, GORDON L., Associate Professor

Articles

The chronic mental patient: current status-future directions. *Psychological Bulletin*, 71:81-94.

Behavior modification research: design and tactics. In *Behavior therapy: appraisal and status*, ed. by C. M. Franks, McGraw-Hill, New York, pp. 29-62.

Outcome of systematic desensitization I: background, procedures and uncontrolled reports of individual treatment. *Ibid.*, pp. 63-104.

Outcome of systematic desensitization II: controlled investigations of individual treatment, technique variations, and current status. *Ibid.*, pp. 105-59.

Physiological effects of relaxation training and hypnotic suggestion. *Journal of Abnormal Psychology*, 74:425-37.

Inhibition of physiological response to stressful imagery by relaxation training and hypnotically suggested relaxation. *Behavior Research and Therapy*, 7:249-56.

Extraversion, emotionality, and physiological response to relaxation training and hypnotic suggestion. *International Journal of Clinical and Experimental Hypnosis*, 17, 2:89-98.

There is no substitute for knowledge. *International Journal of Psychiatry*, 8:907-10.

PETERSON, ROBERT F., Assistant Professor

Articles

With E. Brawley, F. Harris, E. Allen, R. Fleming

Behavior modification of an autistic child. *Behavioral Science*, 14, 2:87-97.

With S. W. Bijou, F. Harris, K. E. Allen, M. Johnston

Methodology for experimental studies of young children in natural settings. *Psychological Record*, 19:177-210.

RENNER, K. EDWARD, Professor

Articles

The effect of praise and censure on the performance of schizophrenics. *Journal of Abnormal Psychology*, 74:221-26.

Conditioned hunger. *Journal of Experimental Psychology*, 81:312-16.

With J. Houlihan

The conditions affecting the relative aversiveness of immediate and delayed punishment. *Journal of Experimental Psychology*, 81, 3:411-20.

STEINER, IVAN D., Professor

Articles

With R. Darroch

Relationship between the quality of counter-attitudinal performance and attitude change. *Journal of Personality and Social Psychology*, 11:312-20.

With P. Olberz

Order of disclosure and the attribution of dispositional characteristics. *Journal of Social Psychology*, 79:287-88.

TATSUOKA, MAURICE M., Professor

See Education.

TRIANDIS, HARRY C., Professor

Articles

Cultural training and assimilation. In *Manpower research* ed. by N. A. B. Wilson, English University Press, London, pp. 283-94.

With Pola Triandis

The building of nations. *Psychology Today*, 2, 10:31-35.

TUCKER, LEDYARD R., Professor

Articles

With R. F. Koopman, R. L. Linn

Evaluation of factor analytic research procedures by means of simulated correlation matrices. *Psychometrika*, 34, 4:421-59.

ULLMANN, LEONARD P., Professor

Books

With L. Krasner

A psychological approach to abnormal behavior. Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 687 pp.

Articles

Making use of modeling in the therapeutic interview. In *Advances in behavior therapy*, ed. by R. D. Rubin and C. M. Franks, Academic Press, New York, pp. 175-82.

Behavior therapy as social movement. In *Behavior therapy: appraisal and status*, ed. by C. M. Franks, McGraw-Hill, New York, pp. 495-523.

The behavioral model. In *Models of clinical psychology*, ed. by L. L'Abate, Georgia State College Press, Atlanta, pp. 29-37.

With L. Levitz

The manipulation of indications of disturbed thinking in normal subjects. *Journal of Consulting and Clinical Psychology*, 33, 6: 633-41.

Reviews

Beyond the therapeutic community, by Maxwell Jones. *Contemporary Psychology*, 14: 377-78.

Pygmalion in the classroom, by Robert Rosenthal and Leonore Jacobson. *Journal of Projective Techniques and Personality Assessment*, 33:476-77.

WICKER, ALLAN W., Assistant Professor

Articles

A failure to validate the lost-letter technique. *Public Opinion Quarterly*, 33:260-62.

Cognitive complexity, school size, and participation in school behavior settings: a test of the frequency of interaction hypothesis. *Journal of Educational Psychology*, 60: 200-03.

School size and students' experiences in extra-curricular activities: some possible applications for school planning. *Educational Technology*, 9, 5:44-47.

Size of church membership and members' support for church behavior settings. *Journal of Personality and Social Psychology*, 13:278-88.

WIGGINS, JERRY S., Professor

Articles

Content dimensions in the MMPI. In *MMPI: research developments and clinical applications*, ed. by J. N. Butcher, McGraw-Hill, New York, pp. 127-80.

With Nancy Wiggins

A typological analysis of male preferences for female body types. *Multivariate Behavioral Research*, 4:89-102.

WIGGINS, NANCY, Associate Professor

Articles

With M. Fishbein

Dimensions of semantic space: a problem of individual differences. In *Semantic differential technique: a source book*, ed. by Snider and Osgood, Aldine Publishing Co., Chicago, pp. 183-93.

With M. Blackburn, R. J. Hackman

The prediction of first year success in psychology: peer ratings. *Journal of Educational Research*, 63:81-85.

With P. J. Hoffman, T. Taber

Types of judges and cue utilization in judgments of intelligence. *Journal of Personality and Social Psychology*, 12:52-59.

With J. S. Wiggins

A typological analysis of male preferences for female body types. *Multivariate Behavioral Research*, 5:89-102.

WILLIGES, ROBERT C., Assistant Professor

Articles

Within-session criterion changes compared to an ideal observer criterion in a visual monitoring task. *Journal of Experimental Psychology*, 81, 1:61-66.

With W. A. Johnston, W. C. Howell

The components of complex monitoring. *Organizational Behavior and Human Performance*, 4:112-14.

DOCTORAL DISSERTATIONS

Ajzen, Icek (M. E. Fishbein, Adviser), Prediction and change of behavior in the prisoner's dilemma.

Albert, Joseph A. (D. R. Peterson, Adviser), Modification of the impulsive conceptual style.

Appelbaum, Mark I. (L. R. Tucker, Adviser), A methodological study of preference.

Birky, Howard J. (K. E. Renner, Adviser), Immediate and delayed punishment of errors on a verbal learning task.

Bowen, Max E. (D. R. Peterson, Adviser), Responses to smoking in the presence of anxiety-eliciting cues.

Calhoun, James F. (L. P. Ullmann, Adviser),

The effects of performance payoff and cues on recall by hospitalized schizophrenics.

Dachler, Hans P. (C. L. Hulin, Adviser), The effects of performance feedback on attribution of causality for performance and satisfaction.

De Marco, William (J. McV. Hunt, Adviser), The scatter of intellectual abilities of the hard of hearing as assessed by the Wechsler intelligence scale for children.

Duffy, Thomas M. (W. E. Montague, Adviser), Mnemonics and intralist interference in paired-associate learning.

Dusek, Jerome B. (K. T. Hill, Adviser), An investigation of experimenter bias in the performance of children at a simple motor task under conditions of social reinforcement and nonreinforcement.

Gormly, John B. (K. E. Renner, Adviser), Interpersonal stress and the coping styles.

Greenspon, Thomas S. (C. W. Eriksen, Adviser), Conditions for beta movement in three-light displays with a rating scale indicator.

Groninger, Lowell D. (J. A. Adams, Adviser), A test of the distinction between short-term memory and long-term memory.

Ilgen, Daniel R. (J. H. Davis, Adviser), Satisfaction with performance as a function of the initial level of expected performance and the deviation from expectation.

Iwakami, Eileen E. (D. R. Peterson, Adviser), The effects of muscle relaxation on the acquisition and extinction of a conditioned avoidance response.

Kaess, Dale W. (M. W. Weir, Adviser), A multiple discriminant analysis approach to the development of form constancy.

Kalt, Neil C. (J. H. Davis, Adviser), The temporal resolution of inequity: an exploratory investigation.

Kuypers, David S. (M. W. Weir, Adviser), The development and utilization of hypotheses by children.

Lewis, Merrilee R. (M. W. Weir, Adviser), IQ, MA, and meaningfulness in paired associate learning.

Lowe, Rosemary H. (J. E. McGrath, Adviser), Prediction of characteristics of group output from individual performance characteristics.

Marcum, Howard B., Jr. (D. R. Peterson, Adviser), Assimilation-balance theory: a new approach to the problem of evaluation information integration.

Martin, Judith E. (R. L. Sprague, Adviser), Therapeutic potential of the psychological experiment.

McInnis, Elizabeth T. (W. C. Becker, Adviser), Effects of time-out and response cost punishment procedures upon response rate in children.

McInnis, Titus L., Jr. (D. R. Peterson, Adviser), Effects of increasing positive and negative self-references on questionnaire and physiological anxiety measures.

McIntyre, John S. (J. A. Adams, Adviser), Extraexperimental interference and forgetting.

Mitchell, Terence R. (F. E. Fiedler, Adviser), Leader complexity, leadership style and group performance.

Posavac, Emil J. (J. S. Wiggins, Adviser), A multivariate study of some determinants of interpersonal attraction.

Pratt, Robin W. (J. McV. Hunt, Adviser), Cognitive processing of uncertainty: its effect on pupillary dilation and preference ratings.

Rosenbaum, Michael (K. T. Hill, Adviser), A methodological investigation of social reinforcement studies: the effects of fixed-interval and fixed-ratio schedules on time and rate measures.

Roydes, Rona L. (L. I. O'Kelly, Adviser), Brain lesions and habituation of the head-shake response in the rat.

Shifflett, Samuel C. (J. H. Davis, Adviser), Prediction of group productivity as a function of member ability, task-solving strategy and task difficulty.

Sieveking, Nicholas A. (J. McV. Hunt, Adviser), Systematic desensitization in groups with institutionalized adolescents.

Slikovitz, Ronald G. (S. W. Bijou, Adviser), Transfer of stimulus control from visual stimuli to verbal instructional stimuli.

Snyder, Frank W. (L. R. Tucker, Adviser), A unique variance model for three-mode factor analysis.

Stapert, John C. (J. E. McGrath, Adviser), Multiple methods in the longitudinal study of small groups under stress.

Taub, Susan I. (M. W. Weir, Adviser), The effects of reward, penalty, and an attention manipulation on children's discrimination learning.

Thomanek, Erich K. (J. H. Davis, Adviser), Some aspects of reciprocity.

Thorsheim, Howard I. (J. A. Adams, Adviser), The influence of mediator strength on retention.

Wearing, Alexander J. (J. A. Adams, Adviser), Memory for sentences.

Wetzel, Loyal C. (L. P. Ullmann, Adviser), The effects of operant conditioning and nicotrazol on the modification of daytime incontinence of regressed chronic schizophrenics.

Whitman, Myron A. (R. L. Sprague, Adviser), Discrimination learning as a function of MA, IQ, and institutionalization.

Willis, Richard D. (K. E. Renner, Adviser), Shock intensity, partial reinforcement, and experimental design effects in the acquisition of conditioned suppression.

Woolley, Orland W. (W. M. Gilbert, Adviser), Long term food regulation in the obese and non-obese.

Woolley, Susan C. (W. M. Gilbert, Adviser), Real and imaginary calories: their effects on subsequent food intake in the obese and non-obese.

Yang, Kuo-shu (K. E. Renner, Adviser), Cognitive dissonance and recall of interrupted and completed tasks.

RECREATION AND PARK ADMINISTRATION

BANNON, JOSEPH J., Assistant Professor

Articles

A case for public recreation. *Kansas Recreation and Park Annual*, pp. 22-23.

The University of Illinois acts to meet the recreation and park need. *Illinois Parks Magazine*, 25, 2:56, 66.

ELLIS, MICHAEL J., Assistant Professor

Articles

Control dynamics and the timing of a discrete motor response. *Journal of Motor Behavior*, 1:119-34.

Another look at the research gap: why Erkes' questions will remain unanswered. *Journal of Leisure Research*, 1:275-76.

With T. T. Craig

A note on the inferiority retardates' motor performance. *Journal of Motor Behavior*, 1:339-44.

FRYE, MARY V., Assistant Professor

Articles

A philosophical statement on therapeutic recreation services. *Therapeutic Recreation Journal*, 3, 4:11-14.

GRAMZA, ANTHONY F., Assistant Professor

Articles

With P. A. Witt

Choices of colored blocks in the play of preschool children. *Perceptual and Motor Skills*, 29:783-87.

With P. A. Witt, A. G. Linford, Claudine Jeanraud

Responses of mongoloid children to colored block presentation. *Perceptual and Motor Skills*, 29:1008.

JEANRENAUD, CLAUDINE Y., Research Assistant and Teaching Assistant

Articles

With A. G. Linford, C. Curry

Behavior modification techniques for teaching swimming to the mentally retarded. *A practical guide to teaching the mentally retarded to swim*, Council for National Cooperation in Aquatics and American Association for Health, Physical Education and Recreation, Washington, D.C., pp. 137-48.

With A. G. Linford

A systematic language structure for teaching recreative skills to the mentally retarded. *Therapeutic Recreation Journal*, 2, 1:8-11.

Effects of perceived novelty on approach-avoidance behavior of young children. *Perceptual and Motor Skills*, 29:491-94.

With A. G. Linford, A. G. Gramza, P. Witt

Responses of mongoloid children to colored block presentation. *Perceptual and Motor Skills*, 29:1008.

LANDERS, DANIEL M., Assistant Professor

Articles

Effect of the number of categories systematically observed on individual and group performance ratings. *Perceptual and Motor Skills*, 29, 731-35.

With R. Martens

The effect of anxiety, competition and failure on performance of a complex motor task. *Journal of Motor Behavior*, 1:1-9.

Coaction effects on muscular endurance. *Research Quarterly*, 40:733-37.

LINFORD, ANTHONY G., Research Associate and Instructor

Articles

With C. Curry, C. Y. Jeanraud

Behavior modification techniques for teaching swimming to the mentally retarded. *A practical guide to teaching the mentally retarded to swim*, Council for National Cooperation in Aquatics and American Association for Health, Physical Education and Recreation, Washington, D.C., pp. 137-48.

With C. Y. Jeanraud

Effects of perceived novelty on approach-avoidance behavior of young children. *Perceptual and Motor Skills*, 29:491-94.

A systematic language structure for teaching

recreative skills to the mentally retarded. *Therapeutic Recreation Journal*, 2, 1:8-11.

With A. Gramza, P. Witt, C. Y. Jeanrenaud
Responses of mongoloid children to colored block presentation. *Perceptual and Motor Skills*, 29:1008.

MARTENS, RAINER, Assistant Professor

Articles

Effect of an audience on learning and performance of a complex motor skill. *Journal of Personality and Social Psychology*, 12: 252-60.

Effect on performance from learning a complex motor task in the presence of spectators. *Research Quarterly*, American Association of Health, Physical Education and Recreation, 40:317-23.

Palmar sweating and the presence of an audience. *Journal of Experimental Social Psychology*, 5:371-74.

With D. M. Landers

Effect of anxiety, competition, and failure on performance of a complex motor task. *Journal of Motor Behavior*, 1:1-10.

Coaction effects on a muscular endurance task. *Research Quarterly*, American Association of Health, Physical Education and Recreation, 40:733-37.

PEZOLDT, CHARLES W., Assistant Professor

Articles

Retention — turn over — recruitment. *Illinois Park and Recreation Quarterly*, 4, 12:20.

Bulletins and Technical Reports

Leisure behavior, attitude and opinion study for Skokie Park District, Skokie, Illinois. University of Illinois, Urbana, 78 pp.

SAPORA, ALLEN V., Professor and Head of Department

Articles

Evaluation of park and recreation operations — who should do it? *Parks and Recreation*, 4, 12:35-36.

VAN METER, JERRY R., Lecturer

Bulletins and Technical Reports

Planning county park and recreation systems. University of Illinois, Urbana.

Master plans for park sites. *Ibid.*

Developing private campgrounds. *Ibid.*

A vacation farm visit. *Ibid.*

Fee fishing areas. *Ibid.*

Development costs in Illinois private campgrounds. *Ibid.*

Publications relating to commercial enterprises. *Ibid.*

WEAVER, HOWARD E., Associate Professor

Articles

With A. Parker

Find your own summer thing. National Recreation and Park Association, Washington, D.C., 249 pp.

WITT, PETER A., Research Associate

Articles

With J. Glavin

Recreation for the conduct disorder child. *Exceptional Children*, 35:787-91.

With A. F. Gramza

Choices of colored blocks in the play of pre-school children. *Perceptual and Motor Skills*, 29:783-87.

With A. F. Gramza, A. G. Linford,
C. Y. Jeanrenaud

Responses of mongoloid children to colored block presentations. *Perceptual and Motor Skills*, 29:1008.

RUSSIAN AND EAST EUROPEAN CENTER

SHIMKIN, EDITH M., Associate

Reviews

With D. B. Shimkin

Russian Land, Soviet People, by James S. Gregory. *The Russian Review*, 28:459-60.

SCHOOL AND COLLEGE RELATIONS

ANDERSON, ERNEST F., Coordinator of University-Junior College Relations and Associate Professor

Bulletins and Technical Reports

With C. E. Thornblad

Report of selected data and characteristics: Illinois public junior colleges, 1968-69. Illinois Junior College Board, Springfield, Illinois, 92 pp.

BAHLKE, SUSAN J., Assistant Coordinator of Research and Testing and Assistant Professor

Articles

With J. F. Feldhusen, D. J. Treffinger

Teaching creative thinking. *The Elementary School Journal*, 70, 1:48-53.

LOEB, JANE W., Coordinator of Research and Testing and Assistant Professor

Articles

With L. D. DeNike

Prediction of organization in free recall from reported learning strategy. *Psychological Reports*, 25:631-36.

ROBINSON, LEHYMANN F., Assistant Director

Articles

Relation of student persistence in college to satisfaction with environmental factor. *The Journal of Educational Research*, 63, 1: 6-10.

From college to high school: how to give feedback on students' progress. *College Board Review*, 73:19-21.

With J. Paraskevopoulos

Comparison of college performance of cold war veterans and non-veterans. *College and University*, 44, 2:189-91.

SLAVIC LANGUAGES AND LITERATURES

HILL, STEVEN P., Associate Professor

Articles

The twilight of Tairov, by Vladimir Pimenov. Annotated translation. *Educational Theatre Journal*, 21, 2:171-79.

Art vs. box office in the USSR [symposium]. Annotated translation. *Film Society Review*, 4, 8:30-36.

Reviews

I am from Moscow, by Yuri Krotov. *Slavic and East European Journal*, 13, 2:261-62.

Recent Russian films. *Film Society Review*, 4, 8:22-29.

PACHMUSS, TEMIRA, Professor

Articles

Zinaida Hippis: *Contes d'amour. La Renaissance* (Paris, 1969), 210:57-76; 211:25-47; 212:39-54.

Zinaida Hippis: *The Warsaw Diary. La Renaissance* (Paris), 214:71-88; 215:90-111; 216:27-44.

Zinaida Hippis: an Intellectual Profile. *American Philosophical Society Year Book 1969*, Philadelphia.

Reviews

The extraordinary decade: literary memoirs, by P. V. Annenkov. Ed. by Arthur P. Mendell. Tr. by Irwin R. Titunik. *Slavic and East European Journal*, 13, 3: 384-85.

Sergej Esenin: Bilder-und Symbolwelt (Slavistische Beitrage. Band 12a), by Christiane Auras. *Slavic and East European Journal*, 13, 3:393.

Comparativists at work (A Blaisdell Book in Comparative Literature), ed. by Stephen G. Nichols, Jr. and Richard B. Vowels. *Slavic and East European Journal*, 13, 4: 506-07.

Marx, Engels, and the Poets: origins of marxist literary Criticism, by Peter Demetz, revised and enlarged by the author and translated by Jeffrey L. Simmons. *Slavic and East European Journal*, 12, 1: 96-97.

SOCIAL WORK

ANDERSON, RICHARD J., Associate Professor

Articles

The definition and implications of the current practice of school social work. *Reports from the Rockton Conference*, Midwest Annual Regional Conference in School Social Work, pp. 54-58. 1968.

ATHERTON, CHARLES R., Lecturer

Articles

The student activist as a community organizer. *Welfare in Appalachia*, 1:47-52.

Growing up obscene: the by-product of life on AFDC. *Public Welfare*, 27, 4:371-75.

The social assignment of social work. *Social Service Review*, 43, 4:421-29.

COSTIN, LELA B., Associate Professor

Articles

What direction for school social work: review of a study in school social work. In *Social work in schools: patterns and perspectives*, ed. by John J. Alderson, Whitehall Company, Skokie, Illinois, pp. 144-66.

School social work: an analysis of function. *Psychology in the Schools*, 6, 4:347-52.

A historical review of school social work. *Social Casework*, 50, 8:439-53.

An analysis of the tasks in school social work. *Social Service Review*, 43, 3:274-85.

Prevention or protection? *British Hospital Journal and Social Service Review*, 79, 4135:1357-58.

Reviews

Child care and working mothers: a study of arrangements made for daytime care of children, by Florence A. Ruderman, Child Welfare League of America, Inc., *Public Welfare*, 27, 3:297-300.

GOULD, KETAYUN H., Assistant Professor

Articles

Family planning: a politically suicidal issue. *Economic and Political Weekly*, 4, 38: 1513-18.

Sexual practices and reproductive decisions. *The Journal of the Christian Medical Association of India*, 44, 10:547-50.

Sex and contraception in Sherupur: family planning in a North Indian village. *Economic and Political Weekly*, 4, 49:1887-92.

HALE, MARK P., Professor

Articles

Curriculum models for social work education. In *Modes of professional education: functions of field learning in the curriculum*, ed. by H. Cassidy, School of Social Work, Tulane University, New Orleans, pp. 211-28.

LATHROPE, DONALD E., Professor

Articles

The general systems approach in social work practice. In *The general systems approach: contributions toward an holistic conception of social work*, ed. by Gordon Hearn, Council on Social Work Education, New York, pp. 45-62.

TABER, MERLIN A., Professor

Articles

With H. C. Quay, H. Mark, V. Nealey

Disease ideology and mental health research. *Social Problems*, 16, 13:349-57.

Curriculum development on the Urbana Campus, University of Illinois. In *Modes of professional education: functions of field learning in the curriculum*, ed. by H. Cassidy, School of Social Work, Tulane University, New Orleans, pp. 5-21.

A knowledge base for social work: three positions. *Ibid.*, pp. 143-52.

SOCIOLOGY

BORDUA, DAVID J., Professor

Articles

The state and Barney's Tavern: some observations on police-community relations. In *Proceedings of the fifteenth annual institute on police-community relations*, Michigan State University, pp. E1-E19.

CHOLDIN, HARVEY M., Associate Professor

Articles

The development project as natural experiment: the Commilla, Pakistan projects. *Economic Development and Cultural Change*, 17, 4:483-500.

FLIEGEL, FREDERICK C., Professor
See Agricultural Economics.FOLSE, CLINTON L., Professor
See Agricultural Economics.JACOBS, NORMAN G., Professor
Bulletins and Technical Reports

With Masao Sawaki, Michio Royama, Eiichi Kimura, Ezra Vogel and others

Post-Vietnam Asia — economic stability and peace. *The 7th North Japan Seminar for Journalists*, Akita, Japan, 52 pp. In Japanese.

JOHNSON, HARRY M., Professor

Articles

The relevance of the theory of action to historians. *Social Science Quarterly*, 50, 1: 46-58.

KIMBERLY, JOHN R., Assistant Professor

Articles

With B. K. Lubow, R. P. Kimberly, W. H. Button

An empirical approach to work behavior, interaction, and rehabilitation. *Human Organization*, 28, 4:303-21.

Bulletins and Technical Reports

With W. H. Button, B. K. Lubow, R. P. Kimberly

A conceptual framework for the analysis of work behavior in sheltered workshops. Region II Rehabilitation Research Institute, *Studies in Behavior and Rehabilitation*, No. 1, Cornell University, Ithaca, New York, 46 pp.

Client behavior in sheltered workshops: two case studies. *Ibid.*, No. 2, 57 pp.

LUESCHEN, GUENTHER, Associate Professor

Articles

Some recent developments in the sociology of sport. In *Sociology of sport*, ed. by Kenyon, Athletic Institute, Chicago, pp. 1-4.

Small group research and the group in sport. *Ibid.*, pp. 57-66.

Reviews

Sozialistische pädagogik, by Theo Dietrich. *Kölnner Zeitschrift für Soziologie*, 21, 2: 394-95.

Problems in education, by Brian Holmes. *Ibid.*, 2:395-96.

McPHAIL, CLARK, Assistant Professor

Articles

Student walkout: a fortuitous examination of elementary collective behavior. *Social Problems*, 16, 4:441-55.

ROBINSON, GERTRUDE J., Assistant Professor

Articles

Tanjug's complementary role in international communications. In *Mass media and international understanding*, ed. by School of Sociology and Journalism, Ljubljana, Yugoslavia, pp. 291-303.

Tanjug: Yugoslavia's window on the world. *Novinar i Novinarstvo*, Belgrade, 9, 1-2: 118-23.

SIMON, RITA J., Professor and Head of Department

Articles

A comment on sociological research and interest in Britain and the United States. *The Sociological Review*, 17, 1:5-10.

With M. Edelman

Presidential assassinations: their meaning and impact on American society. *Ethics*, 79, 3:199-221.

With G. J. McCall, Evelyn Rosenthal

A selective evaluation of their university by Negro and white undergraduates. *Phylon*, 30, 1:11-16.

With Linda Mahan

A note on the role of the book review editor as decision maker. *The Library Quarterly*, 39, 4:353-56.

SOLAÚN, MAURICIO, Assistant Professor

Books

Sociología de los golpes de estado latinoamericanos. Universidad de los Andes, Bogota, 152 pp.

Articles

Fracaso de la democracia en Cuba: un régimen autoritario "patrimonial" (1952). *Aportes*, Paris, 13:57-80.

Lo moderno y tradicional en dialectica. *Gaceta Tercer Mundo*, Bogota, 52:2-6.

SUDMAN, SEYMOUR, Associate Professor

See Survey Research Laboratory.

SUMMERS, GENE F., Assistant Professor

Articles

With A. D. Hammends

Toward a paradigm for respondent bias in survey research. *Sociological Quarterly*, 10, 1:113-21.

With R. L. Hough, J. O'Meara

Parental influence, youth contraculture, and rural adolescent attitudes toward minority groups. *Rural Sociology*, 34, 3:383-86.

With A. A. Shuster, Susan K. Shuster

The Minnesota teacher attitude inventory and counselor-camper interaction: a note on predictive validity. *Educational and Psychological Measurement*, 29, 4:999-1004.

Reviews

The logic of survey analysis, by Morris Rosenberg. *Social Forces*, 48, 2:273-74.

Bulletins and Technical Reports

With R. L. Hough, J. T. Scott, Jr., C. L. Folse Before industrialization: a rural social system base study. University of Illinois Agricultural Experiment Station Bulletin 736, 100 pp.

VAN ES, JOHANNES C., Assistant Professor

See Agricultural Economics.

VUCINICH, ALEXANDER, Professor

Articles

Politics, universities and science. In *Russia under the last tsar*, ed. by Stavrou, University of Minnesota Press, Minneapolis, pp. 154-78.

Reviews

Ethnic minorities in the Soviet Union, ed. by Goldhagan. *Russian Review*, 29:361-62.

Science and ideology in the Soviet Union, ed. by G. Fischer. *Bulletin of Atomic Scientists*, 25:33.

DOCTORAL DISSERTATIONS

Hough, Richard L. (C. L. Folse, Adviser), Structural stress, anomia and psychological disorder.

Johnson, Doyle P. (J. P. Clark, Adviser), The response of clergymen to industrial development.

Slawski, Carl J. (A. Vucinich, Adviser), The career ideology of specialists: elements of socialization in university departments.

SPANISH, ITALIAN, AND PORTUGUESE

BERGQUIST, VIOLET, Associate Professor

Articles

The advanced-level course in high school. In *A Handbook for teachers of Spanish and Portuguese*, ed. by D. Walsh, D. C. Heath & Co., Boston, pp. 108-13.

FORSTER, MERLIN H., Professor

Articles

Spanish American literary bibliography. *Modern Language Journal*, 53, 1:87-89.

El concepto de la creación poética en la obra de Carlos Pellicer. *Comunidad*, 4, 21:683-88.

Reviews

La poesía Hispanoamericana desde el modernismo, by Eugene Florit and José Olivio Jiménez. *Hispania*, 52:344-45.

FRANCESCATO, MARTHA P., Instructor

Articles

Julio Cortázar y un modelo para armar ya armado. *Cuadernos Americanos*, 28, 3: 235-41.

Teoría y realización del serpiente en "Martes de Carnaval." *Cuadernos Hispanoamericanos*, 79, 236:483-95.

HERSHBERG, DAVID R., Assistant Professor

Articles

Otium and the epitaph of Sulpicius Similis. *Romanische Forschungen*, 80, 4:498-503.

KAHANE, HENRY R., Professor

Articles

With Renée Kahane, Angelina Pietrangeli

Hermetism in the Alfonsine tradition. *Mélanges Rita Lejeune*, 1:443-57.

Reviews

Classics in linguistics, ed. by Hayden Alworth, and Tate. *Comparative Literature Studies*, 5:342-43.

Ruke-Dravina, Mehrsprachigkeit im Vorschulalter. *Language*, 45:476-77.

LEAL, LUIS, Professor

Articles

El prólogo en *Las diez palabras*, by Ramón Rubín. Fondo de Cultura Económica, Mexico City.

Manuel Álvarez del Castillo. *Et Caetera*, 2a. época, 4, 15:81-93.

Para la bibliografía de Jalisco. *Boletín Bibliográfico de la Secretaría de Hacienda y Crédito Público*, 2a. época, 15, 413:14-17.

Un cuento de Juan José Arreola. *El Rehilete*, 2a. época, 29:46-48.

Reviews

After the storm, by Joseph Sommers. In *Arizona Quarterly*, 25, 2:168-69.

LERNER, ISAIAS, Assistant Professor

Books

With Celina S. de Cortazar

Miguel de Cervantes: El ingenioso hidalgo Don Quijote de la Mancha. Eudeba, Buenos Aires, 938 pp.

Articles

A propósito de Cien años de soledad. *Cuadernos Americanos*, 28:186-200.

Reviews

Para unbestiario de Indias, by Alberto M. Salas. *Sur*, 316-17:120-23.

LOTT, ROBERT E., Professor

Articles

Un escocés hispanófile que quería a Colombia: Robert Bontine Cunninghame Graham. *Boletín de Historia y Antigüedades*, 55: 648-50; 707-13.

Observations on the narrative method, the psychology, and the style of Los Pazos de Ulloa. *Hispania*, 52, 1:3-12.

Reviews

A critical bibliography of the new stylistics applied to the Romance literatures 1953-1965, by Helmut A. Hatzfeld. *Symposium*, 23, 2:179-80.

Juan Valera: Artículos de "El Contemporáneo," ed. by C. C. DeCoster. *Revista de Estudios Hispánicos*, 3, 1:161-62.

Obras desconocidas de Juan Valera, ed. by C. C. DeCoster. *Ibid.*, pp. 167-69.

An introduction to the "Episodios Nacionales" of Galdós, by Alfred Rodriguez. *Books Abroad*, 43, 1:88-89.

Enfances et mort de García Lorca, by Marcelle Auclair. *Ibid.*, p. 90.

Introducción al cancionero de Miguel de Unamuno, by Josse de Kock. *Ibid.*, 2:230-31.

Manuel Machado: a reevaluation, by Gordon Brotherston. *Hispania*, 52, 2:329.

Navarro Ledesma: El hombre y su tiempo, by Carmen de Zulueta. *Ibid.*, 3:526.

El sirvo y el señor: La dialéctica agónica de Miguel de Unamuno, by Antonio Regalado García. *Books Abroad*, 43, 4:570-71.

Galdós, I, by José F. Montesinos. *Ibid.*, p. 563.

MAHARG, MARÍA-ELENA B. DE, Instructor

Reviews

La muerte en Beverly Hills, by Pedro Gimferrer. *Alaluz*, 2:38-40.

MEEHAN, THOMAS C., Assistant Professor

Articles

El desdoblamiento interior en Doña Inés, de Azorín. *Cuadernos Hispanoamericanos*, 79, 237:644-68.

Reviews

Coronación, by José Donoso. *Books Abroad*, 43, 2:233.

MONTANO, ROCCO, Professor

Articles

Crocean influence and historicism in Italy. In *Comparative literature: matter and method*, ed. by A. O. Aldridge, University of Illinois Press, Urbana, 334 pp.

Il tasso e la poesia della controriforma. *Umanesimo*, 2, 1-2:3-51.

Notes on American culture. *Ibid.*, pp. 98-116.

On criticism and history of literature: letter to René Wellek. *Ibid.*, pp. 125-34.

Lettera al Ministro della Pubblica Istruzione. *Ibid.*, pp. 117-24.

Una pubblicazione dell'Università Cattolica su Dante. *Ibid.*, pp. 139-43.

Marxist criticism: Lukacs, Gramsci, Merleau-Ponty. *Umanesimo*, 2, 3:1-16.

Galileo e la scienza cattolica della natura. *Ibid.*, pp. 35-49.

Notes and comments—Note e Commenti, *Ibid.*, pp. 50-62.

Proposal for an inter-departmental M.A. and Ph.D. in the humanities. *Ibid.*, pp. 63-71.

Schema di una storia della poesia di Dante, I. *Convivium*, 3:257-92.

Schema di una storia della poesia di Dante II. *Ibid.*, 4:385-413.

Influenza Crociana e storicismo nella critica Italiana. *Filosofia*, 2:223-44.

From Italian humanism to Shakespeare: humanistic positions. *Italian Quarterly*, Fall, pp. 3-31.

MORÍNIGO, MARCOS A., Professor

Articles

Estudio preliminar a *El ingenioso hidalgo Don*

Quijote de la Mancha. In *Eudeba*, Buenos Aires, pp. 1-97.
 Gutiérrez de Santa Clara y los quichuimos de su historia. *Revista Hispánica Moderna*, 34, 3-4:742-51.
 Para la historia del español en la Argentina las cartas guaraníes del General Belgrano. *Actas de la Quinta Asamblea de Filología y Literaturas Hispánicas*, pp. 197-204.

PORQUERAS-MAYO, ALBERTO, Professor
 Books Edited
 With C. Rojas
 Filología y crítica hispánica (Homenaje al Profesor F. Sánchez Escrivano). Ediciones Alcalá y Emory University, Madrid, 362 pp.

Articles
 With F. Sánchez Escrivano
 Función del trulgo en la teoría gramática de la edad de oro. *Revista de Filología Española*, 50:72-92.

With J. L. Laurenti
 Notas para una bibliografía crítica del prólogo en la literatura castellana. *Annali dell'Istituto orientale* (Sezione Romanza), Napoli, 12, 1:84-94.

Reviews
 Grundprobleme der literaturwissenschaft, by Werner Krauss. *Atlántida*, 38:242-43.

DOCTORAL DISSERTATIONS

Anglada-Segarra, Elton M. (W. H. Shoemaker, Adviser), José Gutiérrez-Solana: artista de dos mundos.

Blackburn, Carol R. (L. Leal, Adviser), The picaresque novel of Mexico.

Bouma, Frederick J. (W. H. Shoemaker, Adviser), The structure of the short stories of Leopoldo Alas, "Clarín."

Brann, Sylvia J. (L. Leal, Adviser), El teatro y las novelas de Luisa Josefina Hernández.

Carrillo Sarmiento, Germán D. (L. Leal, Adviser), La novelística de Eduardo Caballero Calderón (1936-1965).

Gulstad, Daniel E. (H. R. Kahane, Adviser), Phonological theory in the Renaissance.

Hinojosa-Smith, Romeo R. (W. H. Shoemaker, Adviser), Money in the novels of Galdós.

Jeffery, Iris C. (L. Leal, Adviser), The narrative art of Rafael Felipe Muñoz.

Lerner, Isías (M. A. Morínigo, Adviser), Arcaísmos léxicos del español de América.

Means, John B. (J. H. D. Allen, Adviser), The Brazilian intellectuals' response to Castro's Cuba.

Rojas, Judith J. Z. (H. R. Kahane, Adviser), An analysis of the linguistic and cultural features stressed in Castilian and Mexican primers.

Scavnicky, Gary E. A. (M. A. Morínigo, Adviser), Innovaciones en el uso del suñjo en el Español de la America Central.

Szoke, Claire O. (W. H. Shoemaker, Adviser), Anticipations of the *Noventayochista* analysis of the problem of Spain in the works of Galdós prior to 1898.

Torres, David (W. H. Shoemaker, Adviser), El arte novetístico de Pereda.

Wiley, Jack R. (W. H. Shoemaker, Adviser), *The Médico* as a literary personage in the works of Benito Pérez Galdós.

SPEECH

BATEMAN, JOHN J., Professor
 See Classics.

BURNS, KENNETH, Professor
 Reviews
 Perspectives in oral interpretation, ed. by John W. Gray. *The Speech Teacher*, 18, 3:242.

CLARK, RUTH ANNE, Assistant Professor
 Articles
 With P. H. Tannenbaum, F. Williams
 Effects of grammatical information on word predictability. *The Journal of Communication*, 19, 1:41-48.

CRONEN, VERNON E., Instructor
 Articles
 The functions of the debater: orator, critic, pedagogue. *Central States Speech Journal*, 20, 4:261-68.

DANILOFF, RAYMOND G., Assistant Professor
 Articles
 With T. H. Shriner, M. S. Holloway
 The relationship between phonological error and syntax in speech defective children. *Journal of Speech and Hearing Research*, 12:319-25.

DOYLE, MICHAEL V., Assistant Professor
 Articles
 Curriculum innovations: training language arts teachers in the inner-city pre-school and elementary grades. *The Speech Teacher*, 17:323-24.

ERICKSON, JOAN G., Assistant Professor
 Articles
 Color coded sound symbols in the teaching of speech and language. *Illinois Speech and Hearing Journal*, 1, 3:5.

Bulletins and Technical Reports
 Speech and hearing problems in the classroom. Illinois English Bulletin, Illinois Association of Teachers of English, Urbana, 19 pp.

INCE, ROBERT L., Assistant Professor
 Books Edited
 Research directions in elementary school speech. Speech Association of America, New York, 48 pp.

Articles
 Activities of the Illinois Speech Association. *The Speech Teacher*, 18:167-68.

Reviews
 English for elementary school teachers: a television series on creativity and imagination in language. *Ibid.*, pp. 376-78.

KRAMER, CHERIS R., Instructor
 Articles
 Parallel motives in *Lord Jim*. *Conradiana*, 2: 58-59.

LOCKE, JOHN L., Assistant Professor
 See Children's Research Center.

MACLAY, JOANNA H., Assistant Professor
 Articles
 The aesthetics of time in narrative fiction. *The Speech Teacher*, 18, 3:194-96.

MUELLER, HENRY L., Professor
 Articles
 Film as arts. *The Journal of Aesthetic Education*, 3, 1:69.

Poetry
 On seeing an old, old film on the late, late show. *Ibid.*, 3:157.

MURPHY, RICHARD, Professor

Articles

- Adlai E. Stevenson as spokesman, and Adlai E. Stevenson and his audience. In *The rhetoric of our times*, ed. by J. Jeffrey Auer, Appleton-Century-Crofts, New York, pp. 355-66.

NEBERGALL, ROGER E., Professor and Head of Department

Articles

- A response to "Research methodologies in speech-communication." In *Conceptual frontiers in speech-communication*, ed. by Kibler and Barker, Speech Association of America, New York, pp. 169-71.
- Time for transition—an editorial. *Central States Speech Journal*, 20, 4:243.

SANDERS, LOIS J., Assistant Professor

Articles

- Maximum lingual pressure in children with articulatory disorders. *Folia Phoniatrica*, 21, 5:393-99.

SHRINER, THOMAS H., Assistant Professor
See Children's Research Center.

SILVERMAN, FRANKLIN H., Assistant Professor

Articles

- Comment on "Testing the significance of the agreement among observers." *Journal of Speech and Hearing Research*, 12, 1:223.

With D. E. Williams, J. A. Kools

- Disfluency behavior of elementary-school stutters and nonstutters: the consistency effect. *Ibid.*, 2:301-07.
- Disfluency behavior of elementary-school stutters and nonstutters: loci of instances of disfluency. *Ibid.*, pp. 308-18.

Reviews

- The modification of stuttering, by Eugene J. Brutten and Donald J. Shoemaker. *Journal of Speech and Hearing Disorders*, 34, 3:283.

SLOAN, THOMAS O., Associate Professor

Articles

- Rhetoric analysis of John Donne's "The prohibition." In *Rhetorical analyses of literary works*, ed. by Edward P. J. Corbett, Oxford University Press, New York, pp. 3-15.

- A renaissance controversialist on rhetoric: Thomas Wright's *Passions of the mind* in general. *Speech Monographs*, 36:38-54.

- The oral interpreter and poetry as speech. *The Speech Teacher*, 18:187-90.

STARK, EARL W., Associate Professor

Articles

- Speech audiometry with children. *Maico Audiological Library Series*, 7: Report 7.

THOMAS, STAFFORD H., Assistant Professor

Articles

- Effects of monotonous delivery on intelligibility. *Speech Monographs*, 36, 2:110-13.

ZEMLIN, WILLARD R., Associate Professor

Articles

- The effect of topical anesthesia in internal laryngeal behavior. *Acta Oto-laryngologica*, 68:169-76.

With T. H. Shriner, D. Beasley

- The effects of frequency division on speech identification in children. *Journal of Speech and Hearing Research*, 12, 2:413-22.

Reviews

- Introduction to the anatomy and physiology of the speech mechanisms by Charles Diehl. *Quarterly Journal of Speech*, 55, 3:337-38.

DOCTORAL DISSERTATIONS

- Abou Saif, Laila N. (C. H. Shattuck, Adviser), The theatre of Naguib Al-Rihani: the development of comedy in modern Egypt.

- Carey, Judith W. (T. M. Scheidel, Adviser), Measurement of audience response to persuasive speeches with an audience response recorder.

- Glenn, George D. (C. H. Shattuck, Adviser), *The Merry Wives of Windsor* on the Nineteenth Century Stage.

- Goodwin, Fred B. (T. M. Scheidel, Adviser), A study of the relationship between certain encoding environments and selected aspects of speaking style.

- Green, Richard L. (B. W. Hewitt, Adviser), The Shakespearean acting of Edwin Forrest.

- Hagness, Don E. (E. W. Stark, Adviser), A preliminary investigation of the modified rhyme test as a test of speech discrimination.

- Ilaro, Joseph A. (R. Murphy, Adviser), The Bradlaugh Case: a study of the parliamentary debates concerning the affirmation-oath controversy, 1880-1891.

- Laurent, Eugene M. (B. W. Hewitt, Adviser), Walter Hampden: actor-manager.

- Lowe, John III (J. J. O'Neill, Adviser), Cine-fluorographic investigation of articulatory timing.

- Smith, Alden C. (R. Murphy, Adviser), The Reverend Sydney Smith's theory of wit and humor: origin, elements, and applications to his rhetorical practice.

STATISTICS

DOCTORAL DISSERTATIONS

- Abu-Salih, Muhammad S. A. (R. A. Wijsman, Adviser), On termination with probability one and bounds on sample size distribution of sequential probability ratio tests where the underlying model is an exponential family.

SURVEY RESEARCH LABORATORY

FERBER, ROBERT, Director of Laboratory and Professor of Economics

Articles

- Contributions of economics to the study of consumer market behavior. *Applied Economics*, 1:125-236.

- The future of marketing. *The Southern Journal of Business*, 4, 2:166-70.

With J. Forsythe, H. W. Guthrie, E. Scott Maynes

- Validation of consumer financial characteristics: common stock. *Journal of the American Statistical Association*, 64, 326:415-32.
- An editor's farewell. *Journal of Marketing Research*, 6, 3:375.

- Validation of a national survey of consumer financial characteristics: savings accounts. *The Review of Economics and Statistics*, 51, 4:436-44.

Reviews

- Purchasing behavior and personal attributes, by William F. Massy, Ronald E. Frank, and Thomas M. Lodahl. *Journal of Economic Literature*, 2, 2:483-85.

SUDMAN, SEYMOUR, Associate Professor

Articles

With N. Bradburn, Galen Gockel

Racially integrated housing in the United States. *Journal of Business*, 42, 1:50-92.

WILSON, WALLACE H., Research

Assistant Professor

Books

With J. O'Connell

Car insurance and consumer desires. University of Illinois Press, Urbana, 115 pp.

THEATRE

AULETTA, ROBERT A., Instructor

Articles

Red mountain high. *Yale/Theatre*, 2, 3:2-35.

HEWITT, BARNARD, Professor and

Head of Department

Articles

Numerous entries on drama. In *The reader's encyclopedia of world drama*, ed. by J. Gassner and E. Quinn, Thomas Y. Crowell Co., New York.

THEORETICAL AND APPLIED MECHANICS

BORESI, ARTHUR P., Professor

Articles

With R. J. Nikolai

A theory for the anisotropic axisymmetrical elastic shell with application to the orthotropic cylinder. In *Developments in theoretical and applied mechanics*, 4, Proceedings 4th Southeastern Conference on Theoretical and Applied Mechanics, Pergamon Press, New York, pp. 156-69.

With P. P. Lynn

Convergence criteria and error estimations for finite element stiffness methods in plate bending. In *Proceedings 2nd Canadian congress on applied mechanics*, University of Waterloo, pp. 126-27.

CARLSON, DONALD E., Associate Professor

Articles

With R. T. Shield

Inverse deformation results for elastic materials. *Zeitschrift für angewandte Mathematik und Physik*, 20, 2:261-63.

CLARK, MARLYN E., Professor

Articles

With G. F. Ayala, S. L. Hawkes

Abnormality detection in simulated arterial systems. *Journal of the Engineering Mechanics Division of the American Society of Civil Engineers*, 95, EM5:1189-1213.

With M. L. Roller

Precursor cerebral circulation models. *Journal of Biomechanics*, 2:241-50.

With A. B. Otis, G. F. Ayala

Synchronous initiation of paced pressure and flow signal recordings. *Transactions on Bio-Medical Engineering of the Institute of Electrical and Electronics Engineers*, 4, BME-16:340-41.

GALLAGHER, JOSEPH P., Assistant

Professor

Articles

With G. M. Sinclair

Environmentally assisted fatigue crack growth

rates in SAE 4340 steel. *Journal of Basic Engineering*, Transactions of ASME, Series D, 91, 4:598-602.

KESLER, CLYDE E., Professor

Articles

With J. A. Neal

The fatigue of plain concrete. In *Proceedings, international conference on the structure of concrete and its behavior under load*, Imperial College and the Cement and Concrete Association, London, pp. 226-27. 1968.

With J. P. Lloyd, H. M. Rejali

Crack control in one-way slabs reinforced with deformed welded wire fabric. *Proceedings, American Concrete Institute*, 66: 366-75.

LANGHAAR, HENRY L., Professor

Articles

Two numerical methods that converge to the method of least squares. *Journal of the Franklin Institute*, 288, 3:165-73.

MILLER, ROBERT E., Professor

Articles

With T. F. Lehnhoff

Influence of transverse shear on the small displacement theory of circular plates. *American Institute of Aeronautics and Astronautics Journal*, 7, 8:1499-1505.

MORROW, JO DEAN, Professor

Articles

With M. Kitagawa, C. E. Jaske

Influence of temperature on reversed creep. *Fatigue at High Temperature*, American Society for Testing and Materials STP No. 459: 100-10.

With T. Endo

Cyclic stress-strain and fatigue behavior of representative aircraft metals. *Journal of Materials*, JMLSA, 4, 1:159-75.

With R. W. Landgraf, T. Endo

Determination of the cyclic stress-strain curve. *Ibid.*, pp. 176-88.

With T. Topper, B. I. Sandor

Cumulative damage under cyclic strain control. *Ibid.*, pp. 189-99.

With T. Topper, R. Wetzel

Neuber's rule applied to fatigue of notched specimens. *Ibid.*, pp. 200-09.

MURDOCK, JOHN W., Associate Professor

Articles

A new undergraduate course in engineering teaching. *Engineering Education*, 60, 4: 323-24.

NAUS, DAN J., Instructor

Articles

With J. L. Lott

Fracture toughness of Portland cement concretes. *Journal of the American Concrete Institute*, 66, 6:481-89.

ROBERTSON, JAMES M., Professor

Books Edited

Cavitation: state of knowledge. American Society of Mechanical Engineers, New York, 241 pp.

Articles

Growth of the turbulent flat-plate boundary layer. *American Society of Engineering Education Mechanics Monograph*, M-1: 14-21.

With D. B. Taulbee

Turbulent boundary layer and separation flow ahead of a step. *Developments in Mechanics*, 5:171-80.

SIDEBOTTOM, OMAR M., Professor

Books

With J. O. Smith

Elementary mechanics of deformable bodies. The MacMillan Company, London, 633 pp.

Articles

With J. L. Schlafer

Experimental evaluation of incremental theories for nonproportionate loading of thin-walled cylinders. *Journal of the Society for Experimental Stress Analysis, Experimental Mechanics*, 9, 11:500-06.

SINCLAIR, GEORGE M., Professor

Articles

Relation of sub-critical crack growth to inspection requirements. In *American society for metals, Eisenman Conference on Fracture Control*, December, 16 pp.

With J. P. Gallagher

Environmentally assisted fatigue crack growth rates in SAE 4340 steel. In *Journal of basic engineering, Transactions of American Society of Mechanical Engineers, Series D*, 91, 4:598-602.

With B. R. Gain

Parameter representation of dynamic equilibrium in creep and fatigue. *American Society for Mechanical Engineers paper No. 69-WA/Met-9*, 13 pp.

SMITH, JAMES O., Professor

Books

With O. M. Sidebottom

Elementary mechanics of deformable bodies. The MacMillan Company, London, 633 pp.

STIPPES, MARVIN, Professor

Articles

Completeness of the Papkovitch potentials. *Quarterly Applied Mathematics XXVI*, 4: 477-83.

With J. Dundurs

Elastic interaction of a point defect with a surface layer. In *Recent advances in engineering science*, ed. by A. C. Eringen, Gordon and Breach, New York, pp. 323-36. 1968.

With F. Rizzo

Elastic inhomogeneity and inclusion problems. In *Recent advances in engineering science IV*, ed. by A. C. Eringen, Gordon and Breach, New York, pp. 233-43.

With D. Shadman

Method of orthogonal polynomials in plane elasticity. *Archivum Mechaniki Stosowanej*, 21, 1:17-32.

TAYLOR, CHARLES E., Professor

Articles

With R. E. Rowlands

Pulsed laser high-speed photography. In *Proceedings of international congress on instrumentation in aerospace simulation facilities*, The Polytechnic Institute of Brooklyn, pp. 121-26.

With R. E. Rowlands, I. M. Daniel

A multiple-pulsed ruby laser system for dynamic photoelasticity. *Experimental Mechanics*, 9, 9:385-93.

WORLEY, WILL J., Professor

Bulletins and Technical Reports

With T. F. Moriarty

Conformal mapping of the interior of a unit circle on to the interior of a class of smooth curves. In *National aeronautics and space administration, Contractor Report NASA CR-1357*, 45 pp.

DOCTORAL DISSERTATIONS

Brown, Robert L. (O. M. Sidebottom, Adviser), A comparison of creep theories for multiaxial loading of polyethylene.

Carter, Willie J. (R. E. Miller, Adviser), Parametric response of nonlinear orthotropic plates.

Chu, Shih-Chi (O. M. Sidebottom, Adviser), Creep of metal torsion-tension members subjected to nonproportionate load changes.

Eckert, Howard J., Jr. (H. L. Langhaar, Adviser), Piecewise polynomials and the methods of weighted residuals for nonlinear ordinary differential equations.

Heimdahl, Peter D. (J. O. Smith, Adviser), Behavior of eccentrically loaded concrete columns reinforced with linearly idealized steels.

Hosken, Wesley E. (M. C. Stippes, Adviser), On linear elastic problems in applied mechanics.

Kennedy, James M. (R. E. Miller, Adviser), Parametric response of an elastic column with rotary inertia and shear deformation.

Landgraf, Ronald W. (J. Morrow, Adviser), Cyclic deformation and fatigue behavior of hardened steels.

McWhorter, John C. III (O. M. Sidebottom, Adviser), An experimental and analytical investigation of the large deflections of curved beams.

Moriarty, Thomas F. (M. Stippes, Adviser), The deformation of grade one hyperelastic isotropic solids.

Mostafavi Rejali, Mohammed H. (C. E. Kesler, Adviser), Determination of volume change stresses in plain and reinforced concrete using finite element analysis.

Pickel, Thomas W., Jr. (A. P. Boresi, Adviser), Flow criteria and constitutive relations for the numerical analysis of plane stress problems with creep.

So, Wai-Cheong (M. Stippes, Adviser), Two-dimensional elliptic inclusions in isotropic and anisotropic matrices under arbitrary stresses.

Stoneking, Jerry E. (A. P. Boresi, Adviser), A theory for free vibration of anisotropic shells of revolution.

Strunk, Richard D. (R. E. Miller, Adviser), Longitudinal wave propagation in liquid lines of finite length including the effect of nonlinear boundary conditions.

Thomas, Francis M. (J. O. Smith, Adviser), An analysis of the effects due to restrained warping on thick walled box beams and I-beams subjected to torsion.

UNIVERSITY EXTENSION

ANDERSON, WENDELL G., Associate Professor

Books

With M. D. Baughman, M. Smith, E. W. Wiltse Administration and supervision of the modern secondary school. Parker Publishing Co., Inc., New York, 239 pp.

HANNA, DONALD G., Extension Specialist

Books

With J. R. Kleberg

Law handbook for Illinois police. Stipes Publishing Co., Champaign, Illinois, 76 pp.
A police records system for the small department. Charles C. Thomas Publisher, Springfield, Illinois, 95 pp.

HUFFMAN, WARREN J., Professor

See Health and Safety Education.

JOHNSON, WALTER M., Professor

Reviews

The international style, by Henry-Russell Hitchcock and Philip Johnson. *Journal of Art Education*, 22, 1:40-41.
Palladio, by James S. Ackerman. *Ibid.*, 5:27.

KLEBERG, JOHN R., Instructor

Books

With D. G. Hanna

Law handbook for Illinois police. Stipes Publishing Co., Champaign, Illinois, 76 pp.
A police records system for the small department. Charles C. Thomas Publisher, Springfield, Illinois, 95 pp.

Articles

Coordinating enforcement with traffic engineering programs. *Illinois Highway Engineer*, 21, 1:32-36.

With C. R. Taylor

A basic police training course evaluation. *Police*, 13, 4:28-34.

McQUEEN, RALPH D., Associate Professor

See Veterinary Medicine.

TAYLOR, CHARLES R., Associate Professor

Articles

Standards for selection, training and education of police personnel. *Police*, 14, 2:36-40.

With J. R. Kleberg

A basic police training course evaluation. *Ibid.*, 13, 4:28-34.

WISNIEWSKI, THOMAS J., Assistant

Professor

Articles

After book two — then what? *Lyons Music News*, 17:4.

String orchestra music of the Baroque period . . . a few suggestions. *Lyons Music News*, 18, 1:5.

Can string education be improved by string teachers? *American String Teacher*, 19, 3:3; 5-6.

URBAN PLANNING

BLAIR, LACHLAN F., Associate Professor

Articles

Programming community development. In *Principles and practice of urban planning*, ed. by Goodman and Freund, International City Managers' Association, Washington, D.C., pp. 379-400.

The scope of the profession: a statement on the changing character of planning practice. *American Institute of Planners Newsletter*, 3, 6-7:2-3.

With W. G. Winholtz

Planning and the public. In *Principles and practice of urban planning*, ed. by Goodman and Freund, International City Managers' Association, Washington, D.C., pp. 564-82.

Bulletins and Technical Reports

Illiville planning documents, a set of simulated plans for use in an introductory course in urban planning. University of Illinois Department of Urban Planning and Bureau of Community Planning, Urbana.

With T. Hodne, R. Gladstone

Central area revitalization guide for Rapid City Center, South Dakota. Hodne Associates, Inc., Minneapolis, 52 pages.

GOODMAN, WILLIAM I., Professor and
Chairman of Department

Articles

A planner's response to a lawyer's view of land use controls. In *The private property and public-interest conflict*, ed. by C. W. Forrest, College of Law and Bureau of Community Planning, University of Illinois, Urbana, pp. 42-48.

Interfaces of planning, development, and marketing. In *Minnesota experimental city*, vol. II, *Economic and physical aspects*, University of Minnesota, Minneapolis, pp. 178-87.

HEIFETZ, ROBERT J., Associate Professor

Articles

The changing scope of urban planning and the challenge of the 1970's. University of Illinois, Bureau of Community Planning Newsletter, 9, 4:1-46.

The urban crisis. *Journal of the American Institute of Architects*, 52:77-80.

An annotated bibliography on the changing scope of urban planning in the U.S.A. *Exchange Bibliography No. 86*, Council of Planning Librarians, Monticello, Illinois, 46 pages.

VETERINARY MEDICINE

ANDERSON, JOHN J. B., Assistant
Professor

Articles

With W. C. Crackel

Strontium-85 retention in neonatal swine: effect of rearing on the sow versus separation from the sow. In *Radiation biology of the fetal and juvenile mammal*, ed. by M. R. Sikov and D. D. Mahlum, USAEC Division of Technical Information, Oak Ridge, Tennessee, pp. 173-82.

With L. Millin

Whole-body retention of strontium-85 in swine given sodium alginate or barium and sodium sulfates. *Journal of Nutrition*, 97:181-84.

BECKER, H. NEIL, Assistant Professor

Articles

With M. Ristic, D. H. Ferris

A preliminary report on gastroenteritis in Illinois swine, 1968-1969. *Illinois Veterinarian*, 12, 1:5-7.

BURKE, THOMAS J., Instructor

Articles

Multiple lipomas in a spotted leopard, *Panthera pardus*. *Journal of the American Veterinary Medical Association*, 155:1099-1100.

CASE, MARVIN T., Assistant Professor

Articles

With A. R. Bartz, M. Bernstein, R. A. Rosen

Metastasis of a sebaceous gland carcinoma in the dog. *Journal of the American Veterinary Medical Association*, 154, 6:661-64.

CONROY, JAMES D., Assistant Professor

Articles

Multiple gastric adenomatous polyps in a dog. *Journal of Comparative Pathology*, 79:465-67.

With V. Ivens, N. D. Levine

Taenia pisiformis cysticerci in a dog in Illinois. *American Journal of Veterinary Research*, 30, 11:2017-20.

DORNER, JOSEPH L., Assistant Professor

Articles

Clinical and pathologic features of canine babesiosis. *Journal of the American Veterinary Medical Association*, 154, 6:648-52.

Let's talk about anemia. *Illinois Veterinarian*, 13, 1:12-13.

Let's talk about leukocytes. *Ibid.*, 2:4.

Reviews

Diagnostic methods in veterinary medicine, by G. F. Boddie. *Journal of the American Veterinary Medical Association*, 153, 11: 1734.

DOWNNEY, H. FRED, Assistant Professor

Articles

With A. R. Twardock, E. S. Kirk, M. K. Austin
Comparative transfer of calcium and strontium and of potassium and cesium in the guinea pig placenta. In *Radiation biology of the fetal and juvenile mammal*, ed. by M. K. Sikov and D. D. Mahlum, USAEC Division of Technical Information, Oak Ridge, Tennessee, pp. 97-103.

FERRIS, DEAM H., Associate Professor

Articles

The single concept film in classroom and autotutorial instruction. *Lens and Speaker*, 7, 1:8-12.

With E. Caletti, M. Ristic, M. Abou-Youssef

Comparison of immunologic properties of a high and low cell culture passage of TGE virus from a single isolant. *Proceedings of the 72nd Annual Meeting of the U.S. Livestock Sanitary Association*, pp. 361-70.

With H. Neil Becker, M. Ristic

A preliminary report on gastroenteritis in Illinois swine, 1968-1969. *Illinois Veterinarian*, 12, 1:5-7.

HANNAH, HAROLD W., Professor

Articles

Is *res ipsa* for the dogs? *Valparaiso University Law Review*, 3, 2:183-96.

Law as a factor in farming. *The Justinian Law Journal*, 5, 1:26-28.

What standard of practice in veterinary malpractice cases? *Journal of the American Veterinary Medical Association*, 155, 1:73.

When is a dog kennel a nuisance? *Ibid.*, 3: 565.

Legal restrictions on location of a veterinary clinic or hospital. *Ibid.*, 5:791.

Loss of animals by fright. *Ibid.*, 8:1395.

Bulletins and Technical Reports

Illinois farm drainage law. University of Illinois College of Agriculture Cooperative Extension Service Circular 751 (revision), 32 pp.

HANSON, LYLE E., Professor and Head of Department

Articles

With A. H. Killinger, M. E. Mansfield

Leptospiral vaccination of cattle exposed to infected deer. *Bulletin of the Wildlife Disease Association*, 5:182-86.

With A. M. Watrach, R. C. Meyer

Canine papilloma: the structural characterization of oral papilloma virus. *Journal of the National Cancer Institute*, 43:453-58.

With G. T. Woods, J. C. Thurmon

Serologic response of beef steers given bovine virus diarrhea and infectious bovine rhinotracheitis vaccines after shipment. *The Southwestern Veterinarian*, 22, 2:111-13.

With J. E. Fitzgerald, J. Simon

Histopathologic changes induced with duck hepatitis virus in the developing chicken embryo. *Avian Diseases*, 13, 1:147-57.

HUBER, W. G., Professor

Articles

With M. B. Carlson, M. H. Lepper

Penicillin and antimicrobial residues in domestic animals at slaughter. *Journal of the American Veterinary Medical Association*, 154:1590-95.

IVENS, VIRGINIA R., Instructor

Articles

With J. D. Conroy, N. D. Levine

Taenia pisiformis cysticerci in a dog in Illinois. *American Journal of Veterinary Research*, 30, 11:2017-20.

JACKSON, GARY L., Assistant Professor

Articles

With A. V. Nalbandov

A substance resembling arginine vasotocin in the anterior pituitary gland of the cockerel. *Endocrinology*, 84:1218-23.

Luteinizing hormone releasing activity in the chicken hypothalamus. *Ibid.*, pp. 1262-65.

Ovarian ascorbic acid depleting factors in the chicken hypothalamus. *Ibid.*, 85:113-30.

With R. F. Labisky

Production and weights of eggs laid by yearling, 2-, and 3-year-old pheasants. *Journal of Wildlife Management*, 33:718-21.

Shell color of eggs laid by yearling, 2-, and 3-year-old pheasants. *Wilson Bulletin*, 81: 466-67.

KILLINGER, ARDEN H., Associate Professor

Articles

Problems associated with the prevention and control of listeriosis in sheep. *Proceedings of Symposium on Sheep Diseases and Health, University of California, Davis*, pp. 191-99.

With L. E. Hanson, M. E. Mansfield

Leptospiral vaccination of cattle exposed to infected deer. *Bulletin of the Wildlife Disease Association*, 5:182-86.

KNECHT, CHARLES D., Associate Professor

Articles

A midline pelvic approach to canine prostatic surgery. *Auburn Veterinarian*, 25, 3:94-99.

With L. E. St. Clair

The radial-brachial paralysis syndrome in the dog. *Journal of the American Veterinary Medical Association*, 154, 6:653-56.

With R. Slusher, E. C. Guiber

Zygomatic salivary cyst in a dog. *Ibid.*, 155, 4:625-26.

KOZLOWSKI, GERALD P., Instructor

Articles

With M. L. Calhoun

Microscopic anatomy of the integument of sheep. *American Journal of Veterinary Research*, 8, 30:1267-79.

LEMAN, ALLEN D., Instructor

Bulletins and Technical Reports

Prevention of baby pig diarrheas. National Pork Producers Council, Des Moines, Iowa, 4 pp.

TGE (transmissible gastroenteritis). *Ibid.*, 2 pp.

White scours (colibacillosis). *Ibid.*, 2 pp.

LEVINE, NORMAN D., Professor

Articles

Problems in systematics of parasitic protozoa. In *Problems in systematics of parasites*, ed. by G. D. Schmidt, University Park Press, Baltimore, Maryland, pp. 109-21.

Chemical control of soil stages of animal-parasitic nematodes. *Transactions of American Microscopical Society*, 88:135-51.

Uniform terminology for sporozoan protozoa. *Progress Protozoology, III International Congress of Protozoology, Leningrad, USSR*, p. 340.

Taxonomy of the sporozoa. *Ibid.*, pp. 365-67.

With V. Ivens, J. D. Conroy

Taenia pisiformis cysticerci in a dog in Illinois. *American Journal of Veterinary Research*, 30, 11:2017-20.

Reviews

Between Pacific tides, by J. W. Hedgpeth. *Journal of Protozoology*, 16:210.

World health organization expert committee on amoebiasis, by World Health Organization Expert Committee. *Ibid.*, p. 545.

LINK, ROGER P., Professor and Head of Department

Articles

With J. A. Pickrell, J. Simon, H. E. Rhoades, J. Gosling

An attempt to experimentally produce edema disease in swine by oral administration of *Escherichia coli* serotype O139:K82:H1. *Canadian Journal of Comparative Medicine*, 33:72-75.

Attempts to produce experimental edema disease in swine by parenterally injecting *Escherichia coli* serotype O139:K82:H1. *Ibid.*, pp. 76-80.

MANNING, JOHN P., Associate Professor

Articles

With R. W. Gibbons

The prevalence of *Brucella agglutinins* in the serum of horses. *Veterinary Medicine/Small Animal Clinician*, 64, 10:907-10.

With G. W. Brandt

Improved uterine biopsy techniques for diagnosing infertility in the mare. *Ibid.*, 11: 977-83.

MANSFIELD, MANFORD E., Professor

Articles

With A. H. Killinger, L. E. Hanson

Leptospirosis vaccination of cattle exposed to infected deer. *Bulletin of the Wildlife Disease Association*, 5:182-86.

With L. A. Arehart, Jr., J. M. Lewis, F. C. Hinds

Space allowances for lambs on slotted floors. *Journal of Animal Science*, 29, 4:638-41.

MARTIN, RUSSELL J., Assistant Professor

Articles

The epidemiology of salmonellae in meats and meat products. *Illinois Association of Sanitarians Journal*, September, pp. 4-9.

With P. B. Doby, M. L. Johnson,

A. L. Starkey, P. R. Schnurrenberger
Disease of the year — swine brucellosis. *Illinois Medical Journal*, 135, 4:401-03.

With L. W. Stahl, P. R. Schnurrenberger

Water-related tularemia cases in Illinois. *Ibid.*, 136, 3:276-77, 309.

With G. T. Woods, P. R. Schnurrenberger, M. Zinzilieta

Search for natural nidality of influenza and parainfluenza viruses in Illinois. *American Journal of Veterinary Research*, 30, 5: 869-74.

With P. R. Schnurrenberger, N. J. Rose

Epidemiology of rabies vaccinations of persons in Illinois, 1967-1968. *Public Health Reports*, 84, 12:1069-77.

With P. R. Schnurrenberger, G. L. Meerdink, N. J. Rose

The epidemiology of human exposure to rabid animals in Illinois. *Ibid.*, pp. 1078-84.

McQUEEN, RALPH D., Associate Professor

Articles

With E. M. Breznock

Rapid fluorometric analysis of plasma corticosteroids as a test of adrenocortical function in the dog. *American Journal of Veterinary Research*, 30:1523-31.

MEYER, RICHARD C., Associate Professor

Articles

With B. S. Rasmusen, J. Simon

A hemolytic neonatal disease in swine associated with blood group incompatibility. *Journal of the American Veterinary Medical Association*, 154, 5:531-37.

With G. D. Paine

Toxoplasma gondii propagation in cell cultures and preservation at liquid nitrogen temperatures. *Cryobiology*, 5:270-72.

With H. E. Rhoades, S. P. Saxena

Escherichia coli infections in germfree piglets. *Proceedings of the 69th Meeting of the American Society for Microbiology*, p. 69.

With A. M. Watrach, L. E. Hanson

Canine papilloma: the structural characterization of oral papilloma virus. *Journal of the National Cancer Institute*, 43:453-58.

With G. T. Woods, J. Simon

Enteroviral and adenoviral pneumotropism in swine. *Proceedings of the North American Symposium on Swine Respiratory Diseases*, Ames, Iowa, pp. 96-102.

With J. Simon, K. S. Todd

Some diagnostic pathologic procedures for the equine practitioner. *Journal of the American Veterinary Medical Association*, 155, 12:1828-30.

MYERS, WALTER L., Associate Professor

Articles

Acquisition of immunologic competence by the pig. *Proceedings of the symposium of factors producing embryonic and fetal abnormalities, death, and abortion in swine. Agriculture Research Service, U.S. Department of Agriculture, ARS 91-73*, pp. 37-43.

Comments on the role of antibody in the immune response. *Journal of the American Veterinary Medical Association*, 155, 2: 255-57.

With D. Segre, A. El-Zein

Equine infectious anemia: Report of progress in research. *Ibid.*, pp. 352-54.

NAUDE, THEUNIS W., Visiting Associate Professor

Articles

With P. J. Pretorius, J. J. Van Der Walt, J. M. Kruger

A comparison between haemodynamic and cellular micro-electrode experiments with the cardiac aglycone epoxyscillirosidin. *South African Medical Journal*, 43:1360-63.

REYNOLDS, HARRY A., JR., Associate Professor

Articles

Some clinical and hematological features of virus enteritis of mink. *Canadian Journal of Comparative Medicine*, 22:155-59.

With C. R. Rossi, A. M. Watrach

Studies of laryngotracheitis virus in avian tissue culture. I. Plaque assay in chicken embryo kidney tissue cultures. *Archiv für die Gesamte Virusforschung*, 28:219-28.

RHOADES, HARRY E., Assistant Professor

Articles

With R. C. Meyer, S. P. Saxena

Escherichia coli infections in germfree piglets. *Proceedings of the 69th Meeting of the American Society for Microbiology*, p. 69.

With C. Pillai, G. T. Woods

Mycoplasma pneumoniae and other swine infections due to PPLO. *Illinois Research*, 11, 2-14.

With J. Simon, J. A. Pickrell, R. P. Link, J. Gossling

Attempts to produce experimental edema disease in swine by parenterally injecting *Escherichia coli* serotype O139:K82:H1. *Canadian Journal of Comparative Medicine*, 33:76-80.

An attempt to experimentally produce edema disease in swine by oral administration of *Escherichia coli* serotype O139:K82:H1. *Ibid.*, pp. 72-75.

RISTIC, MIODRAG, Professor

Articles

Infectious blood diseases of dog. *Illinois Veterinarian*, 2:6-16.

With A. R. Smith, J. D. Lykins, E. W. Voss

Identification of an antigen and specific antibody in the sera of chickens infected with *Plasmodium gallinaceum*. *Journal of Immunology*, 103, 1:6-14.

With I. P. Seilvassy, J. P. Kreier

Autoimmune reactions of chickens infected by *Plasmodium gallinaceum*. *Avian Diseases*, 3:528-33.

With S. Sibirnovic, K. Sibirnovic

Equine babesiosis: diagnosis by bentonite agglutination and passive hemagglutination tests. *American Journal of Veterinary Research*, 30, 5:691-95.

With D. H. Ferris, H. Neil Becker

A preliminary report on gastroenteritis in Illinois swine, 1968-1969. *Illinois Veterinarian*, 12, 1:5-7.

With S. Sibirnovic, J. Welter

An attenuated *Anaplasma marginale* vaccine. *Proceedings of the 72nd Annual Meeting U.S. Livestock Sanitary Association*, pp. 56-69.

With E. Caletti, D. H. Ferris, M. Abou-Youssef

Comparison of immunologic properties of a high and low cell culture passage of TGE virus from a single isolant. *Ibid.*, pp. 361-70.

With E. J. Ruitenber, A. A. von Lehmden-Maslin

Characterization and development in tissue cells of a virus of transmissible gastroenteritis of swine. *Cornell Veterinarian*, 59, 1:76-89.

ROMACK, FRANK E., Associate Professor

Articles

With M. J. Kelly

Radioactive I^{131} movement studies between maternal and fetal tissue of rats. *Illinois Veterinarian*, 1, 12:8.

With L. Seidenberg

The effects of increased amounts of L-triiodothyronine and L-thyroxine on body weight of albino laboratory rats. *Ibid.*, 2, 12:2.

ROSSI, CHARLES R., Research Associate

Articles

With D. Segre

Mixed hemadsorption technique for study of avian leukosis-sarcoma viruses. Standardization of the technique. *American Journal of Veterinary Research*, 30:821-29.

Mixed hemadsorption technique for study of avian leukosis-sarcoma viruses. Studies with avian leukosis viruses. *Ibid.*, pp. 831-36.

With H. A. Reynolds, A. M. Watrach

Studies of laryngotracheitis virus in avian tissue cultures. I. Plaque assay in chicken embryo kidney tissue cultures. *Archiv für die Gesamte Virusforschung*, 28:219-28.

ST. CLAIR, LORENZ E., Professor

Articles

Myologia. In *Nomina anatomica veterinaria*, ed. by Schaller, Habel, and Frewin, World Association of Veterinary Anatomists, Vienna, pp. 33-41.

With T. Calislar

Observations on the navicular bursa and the distal interphalangeal joint cavity of the horse. *Journal of the American Veterinary Medical Association*, 154:410-12.

With C. D. Knecht

The radical-brachial paralysis syndrome in the dog. *Ibid.*, 154, 6:653-56.

SCHNURRENBERGER, PAUL R., Associate Professor

Articles

Teaching programs to meet present and future needs—an epidemiological approach. In *Symposium educators veterinary public health and preventive medicine*, Pan American Health Assoc., St. Paul, Minnesota, pp. 25-26.

With P. B. Doby, M. L. Johnson, A. L. Starkey, R. J. Martin

Disease of the year—swine brucellosis. *Illinois Medical Journal*, 135, 4:401-03.

With G. T. Woods, R. J. Martin, M. Zinslieta

Search for natural nidality of influenza and parainfluenza viruses in Illinois. *American Journal of Veterinary Research*, 30, 5: 869-74.

With L. W. Stahl, R. J. Martin

Water-related tularemia cases in Illinois. *Illinois Medical Journal*, 136, 3:276-77; 309.

With R. J. Martin, N. J. Rose

Epidemiology of rabies vaccinations of persons in Illinois, 1967-1968. *Public Health Reports*, 84, 12:1069-77.

With R. J. Martin, G. L. Meerdink, N. J. Rose

The epidemiology of human exposure to rabid animals in Illinois. *Ibid.*, pp. 1078-84.

SEGRE, DIEGO, Professor

Articles

With C. R. Rossi

Mixed hemadsorption technique for the study of avian leukosis-sarcoma viruses. Standardization of the technique. *American Journal of Veterinary Research*, 30:821-29.

Mixed hemadsorption technique for the study of avian leukosis-sarcoma viruses. Studies with avian leukosis viruses. *Ibid.*, pp. 831-36.

With W. L. Myers, A. El-Zein

Equine infectious anemia: report of progress in research. *Journal of the American Veterinary Medical Association*, 155, 2:352-54.

With M. Segre, F. P. Inman

Comparison of Aal allotypic specificity carried by rabbit IgG and IgM. *Journal of Immunology*, 102:1368-72.

SEGRE, MARIANGELA, Research Associate

Articles

With D. Segre, F. P. Inman

Comparison of Aal allotypic specificity carried by rabbit IgG and IgM. *Ibid.*, pp. 1368-72.

SILVERMAN, PAUL H., Professor

See Zoology.

SIMON, JOSEPH, Professor

Articles

With J. E. Fitzgerald, L. E. Hanson

Histopathologic changes induced with duck hepatitis virus in the developing chicken embryo. *Avian Diseases*, 13, 1:147-57.

With R. C. Meyer, B. A. Rasmussen

A hemolytic neonatal disease in swine associated with blood group incompatibility. *Journal of the American Veterinary Medical Association*, 154, 5:531-37.

With K. S. Todd, R. C. Meyer

Some diagnostic pathologic procedures for the equine practitioner. *Ibid.*, 155, 12:1828-30.

With R. C. Meyer, G. T. Woods

Enteroviral and adenoviral pneumotropism in swine. *Proceedings of the North American symposium on swine respiratory diseases*, Ames, Iowa, pp. 96-102.

With H. E. Rhoades, J. A. Pickrell, R. P. Link, J. Gossling

Attempts to produce experimental edema disease in swine by parenterally injecting *Escherichia coli* serotype O139:K82:H1. *Canadian Journal of Comparative Medicine*, 33:76-80.

An attempt to experimentally produce edema disease in swine by oral administration of *Escherichia coli* serotype O139:K82:H1. *Ibid.*, pp. 72-75.

SLUSHER, RALPH, Associate Professor

Articles

With C. D. Knecht, E. C. Guiber

Zygomatic salivary cyst in a dog. *Journal of the American Veterinary Medical Association*, 155, 4:625-26.

Reviews

Roentgen technique in laboratory animals, ed. by Benjamin Felson, M.D. *Illinois Veterinarian*, 12:2-16.

SMALL, ERWIN, Professor

Articles

Diseases of the organs of special sense. In *Diseases of cage and aviary birds*, ed. by Petrak, Lea and Febiger, Philadelphia, pp. 351-55.

Canine pediatrics. *Proceedings of the 36th annual meeting of the American Animal Hospital Association*, Washington, D.C., pp. 438-53.

Systemic mycoses. *Proceedings of the 106th annual meeting of the American Veterinary Medical Association*, Minneapolis, Minnesota, pp. 2002-04.

Hotline. *United Persian Quarterly*, 4:6.

SMITH, ARNOLD R., Instructor

Articles

With J. D. Lykins, E. W. Voss, M. Ristic

Identification of an antigen and specific antibody in the sera of chickens infected with *Plasmodium gallinaceum*. *Journal of Immunology*, 103, 1:6-14.

THURMON, JOHN C., Assistant Professor

Articles

With L. M. Fox

Bilateral ankyloblepharan congenita in a newborn foal. *Veterinary Medicine/Small Animal Clinician*, 64, 3:237-38.

With G. T. Woods, L. E. Hanson

Serologic response of beef steers given bovine virus diarrhea and infectious bovine rhinotracheitis vaccines after shipment. *The Southwestern Veterinarian*, 22, 2:111-12.

TODD, KENNETH S., JR., Assistant Professor

Articles

Spiroaxys utahensis sp. n. (Nematoda: Spiruridae) from the tiger salamander, *Ambystoma tigrinum nebulosum*. *Journal of Parasitology*, 55, 2:352-54.

With B. W. O'Gara

Eimeria ivensae sp. n. from the mule deer, *Odocoileus hemionus hemionus*, in Montana. *Transactions of the American Microscopical Society*, 88, 4:589-91.

With J. Simon, R. C. Meyer

Some diagnostic pathologic procedures for the equine practitioner. *Journal of the American Veterinary Medical Association*, 155 12:1828-30.

TWARDOCK, A. ROBERT, Associate Professor

Articles

With H. F. Downey, E. S. Kirk, M. K. Austin

Comparative transfer of calcium and strontium and of potassium and cesium in the guinea pig placenta. In *Radiation biology of the fetal and juvenile mammal*, ed. by M. R. Sikov and D. D. Mahlum, USAEC Division of Technical Information, Oak Ridge, Tennessee, pp. 97-104.

With W. C. Crackel

Cesium-137 retention by cattle, sheep and swine. *Health Physics*, 16:315.

With W. C. Crackel, J. J. B. Anderson

Calcium-47 kinetics in cattle. *Federation Proceedings*, 28:760.

VAVRA, JIRI, Visiting Research Associate Professor

Articles

Lankesteria barretti n. sp. (Eugregarinida, diplocystidae), a new parasite of the mosquito *Aedes triseriatus* (Say) and a review of the genus *Lankesteria* Mingazzini. *Journal of Protozoology*, 16:546-70.

With E. B. Small

Scanning electron microscopy of gregarines (Protozoa, Sporozoa) and its contributions to the theory of gregarine movement. *Journal of Protozoology*, 16:745-57.

VON LEHMEN-MASLIN, ALYS A.,
Research Associate

Articles

With E. J. Ruitenberg, M. Ristic
Characterization and development in tissue cells of a virus of transmissible gastroenteritis of swine. *Cornell Veterinarian*, 59, 1:76-89.

WATRACH, ADOLF M., Professor

Articles

Cytoplasmic tubules in cells infected with laryngotracheitis virus. *27th Annual Proceedings of Electron Microscopy Society of America*.

The ultrastructure of canine cutaneous papilloma. *Cancer Research*, 29:2079-84.

With L. E. Hanson, R. C. Meyer

Canine papilloma: the structural characterization of oral papilloma virus. *Journal of the National Cancer Institute*, 43:453-58.

With C. R. Rossi, H. A. Reynolds, Jr.

Studies of laryngotracheitis virus in avian tissue cultures. I. Plaque assay in chicken embryo kidney tissue cultures. *Archiv für die Gesamte Virusforschung*, 28:219-28.

WOODS, GEORGE T., Professor

Articles

With J. C. Thurmon, L. E. Hanson

Serologic response of beef steers given bovine virus diarrhea and infectious bovine rhinotracheitis vaccines, after shipment. *The Southwestern Veterinarian*, 22, 2:111-13.

With P. R. Schnurrenberger, R. J. Martin, M. Zinzilietta

Search for natural nidality of influenza and parainfluenza viruses in Illinois. *American Journal of Veterinary Research*, 30, 5:869-74.

With R. C. Meyer, J. Simon

Enteroviral and adenoviral pneumotropism in swine. *Proceedings of the North American Symposium on Swine Respiratory Diseases*, Ames, Iowa, pp. 96-102.

With C. Pillai, H. E. Rhoades

Mycoplasma pneumoniae and other swine infections due to PPLO. *Illinois Research*, 11, 2:14.

DOCTORAL DISSERTATIONS

Boyd, Kenneth R. (R. H. Kokernot, Adviser), Serologic comparisons among Hart Park virus and strains of Flanders virus isolated in the United States.

Cockrell, Beverly Y. (J. Simon, Adviser), A quantitative description of anthelmintic and prednisolone-induced alterations in the ultrastructure of hepatic parenchymal cells of the beagle.

Dickinson, John Otis (W. G. Huber, Adviser), Catabolism of orally administered toxic amines in sheep.

Hermesmeier, Ralph K. (R. P. Link, Adviser), Contraction and membrane electrical activity in arterial and portal venous muscle.

Joshi, Harish C. (R. P. Link, Adviser), The effects of 3-tropanyl 2-(P-chlorophenyl) acrylate hydrochloride on gastrointestinal motility and secretion in rat and gastrointestinal motility in sheep.

Kerman, Ronald H. (D. Segre, Adviser), The role of immune and natural specific antibodies in immunologic paralysis and immunity of mice to pneumococcal polysaccharide type III.

Mattsson, Joel Langdon (R. P. Link, Adviser),

The effect of low barometric pressure on human and chicken RBC active sodium efflux.

Mehta, Raj K. (R. P. Link, Adviser), Quantitative evaluation of antispasmodic activity of 3-tropanyl 2-(P-chlorophenyl) acrylate hydrochloride on smooth muscle preparations.

Patel, Motibhai R. (R. P. Link, Adviser), Anesthetic effects of 1,1,1-trifluoroethyl chloride, glyceryl guaiacolate and thiopental sodium in the goat, *Capra hircus*.

Rosborough, John P. (R. P. Link, Adviser), A study of the intraarticular temperature, the synovial fluid viscosity, and the cellular components in joint disease of the horse.

Shah, Harish L. (N. D. Levine, Adviser), The coccidia (Protozoa: Eimeriidae) of the cat.

VICE-PRESIDENT'S OFFICE

JOHNSON, ELDON L., Vice-President

Articles

University without universality. In *The professional school and world affairs*, Iowa State University, Ames, pp. 26-30.

International university responsibilities. *The International Journal of Accounting*, 4, 1: 121-27.

ZOOLOGY

ALGER, NELDA, E., Assistant Professor

Articles

With L. E. D'Antonio, C. Mathot

Temporal relation between a serum electro-adsorbing fraction and course of acute *Plasmodium berghei* malaria in rats. *American Journal of Tropical Medicine and Hygiene* 18, 6:866-71.

BENNETT, GEORGE W., Professor

Articles

Fish. In Illinois 4-H wildlife conservation manual, *University of Illinois College of Agriculture Cooperative Extension Service*, Urbana, pp. 18-27.

With H. Wickliffe Adkins, W. F. Childers

Largemouth bass and other fishes in Ridge Lake, Illinois, 1941-1963. *Illinois Natural History Survey Bulletin* 30, 1:1-67.

BROWN, EDWARD H., Assistant Professor

Articles

With P. G. Calarco

An ultrastructural and cytological study of preimplantation development of the mouse. *Journal of Experimental Zoology*, 171, 3: 253-84.

CRILEY, BRUCE B., Instructor

Articles

Analysis of the embryonic sources and mechanisms of development of posterior levels of chick neural tubes. *Journal of Morphology*, 128:465-502.

GETZ, LOWELL L., Professor

Articles

With D. H. Miller

Life-history notes on *Microtus pinetorum* in central Connecticut. *Journal of Mammalogy*, 50:777-84.

Botfly infections in a population of *Peromyscus leucopus*. *Journal of Mammalogy*, 50: 277-83.

- Laboratory studies of interactions between the white-footed mouse and redback vole. *The Canadian Field-Naturalist*, 83:141-46.
- With M. A. Novak
Aggressive behavior of meadow voles and pine voles. *Journal of Mammalogy*, 50:637-39.
- With L. F. Chichester
The zoogeography and ecology of Arionid and Limacid slugs introduced into northeastern North America. *Malacologia*, 7:313-46.
- GHENT, ARTHUR W., Professor
- Articles
Studies of regeneration in forest stands devastated by the spruce budworm. Pt. 4. Problems of stocked quadrat sampling. *Forest Science*, 15, 4:417-29.
Selected problems in biometry. Pt. 5. Applying the binomial in a research context. *Bios*, 40, 4:158-76.
- HEATH, JAMES E., Associate Professor
See Physiology.
- HIRSCH, JERRY, Professor
See Psychology.
- HOFFMEISTER, DONALD F., Professor
See Natural History Museum.
- KENDEIGH, S. CHARLES, Professor
- Articles
Tolerance of cold and Bergmann's rule. *The Auk*, 86:13-25.
Energy requirements for existence in relation to size of bird. *Condor*, 72:60-65.
Energy responses of birds to their thermal environments. *The Wilson Bulletin*, 81: 441-49.
- With J. E. Kontogiannis, Aldona Masac, R. R. Roth
Environmental regulation of food intake by birds. *Comparative Biochemistry and Physiology*, 31:941-57.
- KITZMILLER, JAMES B., Professor
- Articles
With G. P. Sharma, Ram Parshad, S. L. Narang
The salivary chromosomes of *Anopheles Stephensi stephensi*. *Journal of Medical Entomology*, 6:68-71.
With R. D. Kreutzer, S. L. Narang
The salivary gland chromosomes of *Anopheles atropos*. *Mosquito News*, 29:589-90.
- With T. Tadano
Chromosomal aberrations induced by the chemosterilant tepa in *Culex pipiens fatigans*. *Pakistan Journal of Zoology*, 1:93-96.
- With R. D. Kreutzer
Colonization of *Anopheles earlei*. *Mosquito News*, 29:589-90.
- LEE, M. RAYMOND, Associate Professor
A widely applicable technic for direct processing of bone marrow for chromosomes of vertebrates. *Stain Technology*, 44:155-58.
- With E. G. Zimmerman
Robertsonian polymorphism in the cotton rat, *Sigmodon fulviventer*. *Journal of Mammalogy*, 50:333-39.
- LEVINE, NORMAN D., Professor
See Veterinary Medicine.
- METCALF, ROBERT L., Professor and Head of Department
- Books Edited
With J. N. Pitts
Advances in environmental sciences, Volume I. Wiley-Interscience, New York, 356 pp.
- Articles
With J. N. Pitts
Outline of environmental sciences. In *Advances in environmental sciences*, ed. by Pitts and Metcalf, Wiley Interscience, New York, pp. 1-24.
- With T. R. Fukuto
Metabolism of insecticides in plants and animals. *Annals New York Academy of Sciences*, 160:97-111.
- With T. R. Fukuto, S. A. El-Aziz
Physiological factors influencing the toxicity of carbamate insecticides to insects. *Journal Economic Entomology*, 62:318-24.
- With T. R. Fukuto, R. M. Sacher
Selectivity of carbaryl-2, 3-methylene-dioxynaphthalene combination. *Journal Agricultural Food Chemistry*, 17:551-57
- With T. R. Fukuto, R. L. Jones
Use of the multiple regression equation in the prediction of the insecticidal activity of anticholinesterase insecticides. *Journal Economic Entomology*, 62:801-08.
- With T. R. Fukuto, H. Camp
Selective toxicity of isopropyl parathion — effect of structure on toxicity and anticholinesterase activity. *Journal Agricultural Food Chemistry*, 17:243-48.
Selective toxicity of isopropyl parathion — metabolism in the housefly, honeybee, and white mouse. *Journal Agricultural and Food Chemistry* 17:249-54.
- With T. R. Fukuto, R. L. Jones, and R. O. Myers
Structure, reactivity, and biological activity of 0-(diethylphosphoryl) oximes and 0-(methyl-carbamoyl) oximes of substituted acetophenones and α -substituted benzamides. *Journal Agricultural Food Chemistry*, 17: 923-30.
- With T. R. Fukuto, A. Mahfuz
Influence of the sulfur atom on the anticholinesterase and insecticidal properties of thioether N-methylcarbamates. *Journal Agricultural Food Chemistry*, 17:917-22.
- With T. Miller
The cockroach heart as a bioassay organ. *Entomologia, Experimentalis et Applicata*, 11:455-63.
- With G. P. Georghion, R. Milhollin
Comparative toxicity of Dursban and its methyl analogue to insecticide susceptible and resistant *Culex* and *Anopheles* mosquitoes. *Mosquito News*, 29:92-95.
- With G. P. Georghion, H. F. Schoof, C. N. Smith
Screening and laboratory tests for stages I, II, and III. *OSTROM series Entomologia Medica et Parasitol*, 7, 2:111-19.
- NALBANDOV, ANDREW V., Professor
See Animal Science.
- PHILLIPS, RUTH B., Assistant Professor
- Articles
Mating type inheritance in syngen 7 of *Tetrahymena pyriformis*: Intra and interallelic interactions. *Genetics*, 63:349-59.

With Irene Abraham

Mating type inheritance in *Glaucoma*. *Journal of Protozoology*, 16:375-77.

PROSSER, C. LADD, Professor

See Physiology.

SALMON, MICHAEL, Assistant Professor

Articles

With S. P. Atsides

Spectral sensitivity to substrate vibration in the fiddler crab, *Uca pugilator*. *Animal Behavior*, 17, 1:66-74.

With K. W. Horch

Production, perception and reception of acoustic stimuli by semiterrestrial crabs (Genus *Uca* and *Ocyropsis*). *Forma et Functio*, 1:1-25.

With A. Sayler

Communal nursing in mice: influence of multiple mothers on the growth of the young. *Science*, 164:1309-10.

SANDERSON, GLEN C., Professor

Articles

With G. L. Storm

Effect of medroxyprogesterone acetate (provera) on productivity in captive foxes. *Journal of Mammalogy*, 59, 1:147-49.

Results of a field test to control striped skunks with diethylstilbestrol. *Transactions of the Illinois State Academy of Science*, 62, 2: 193-97.

SAYLER, ANNE, Assistant Professor

Articles

The estrous cycle and estrous-related behavior in the collared lemming. *Forma et Functio*, 1:227-37.

With A. Wolfson

The role of the eyes and superior cervical ganglia on gonadal activity in the Japanese quail. *Archives d'Anatomie d'Histologie et d'Embryologie normales et experimentales*, 51:614-26.

Control of pineal hydroxyindole-o-methyl transferase activity in the Japanese quail. *Neuroendocrinology*, 5:804-15.

SILVERMAN, PAUL H., Professor

Articles

With N. H. Ozerol

Partial characterization of *Haemonchus contortus* exsheathing fluid. *Journal of Parasitology*, 55:79-87.

With H. Levine

Cultivation of *Ascaris suum* larvae in supplemented and unsupplemented chemically defined media. *Journal of Parasitology*, 55: 17-21.

With L. E. D'Antonio, D. T. Spira

A model system for the study of artificially induced resistance to malaria. *Nature*, 223: 507-09.

With V. A. A. Killby

Fine structural observations of the erythrocytic stages of *Plasmodium chabaudi* Landau, 1965. *Journal of Protozoology*, 16:354-70.

Electron microscopic evaluation of isolated forms of *Plasmodium berghei*. *American Journal of Tropical Medicine and Hygiene*, 18:836-59.

With B. P. Jakstys

The effect of heterologous antibody on *Haemonchus contortus* development *in vitro*.

Journal of Parasitology, 55:486-92.

With J. Guerrero

Ascaris suum: Immune reactions in mice. I. Larval metabolic and somatic antigens. *Experimental Parasitology*, 26:272-81.

Reviews

Immunity to parasites, by Angela E. R. Taylor. *The Journal of Parasitology*, 55, 5:1085-86.

SMALL, EUGENE B., Assistant Professor

Articles

With D. M. Marszalek

Scanning electron microscopy of fixed, frozen, and dried protozoa. *Science*, 163:1064-65.

Preparation of soft biological specimen for scanning electron microscopy. *Scanning Electron Microscopy*, 1969:231-39.

With J. Vavra

Scanning electron microscopy of gregarines (Protozoa, Sporozoa) and its contribution to the theory of gregarine movement. *Journal of Protozoology*, 16, 4:745-57.

SMITH, PHILIP W., Professor

Articles

Amphibians, reptiles. *Illinois 4-H Wildlife Conservation Manual*, University of Illinois Agricultural Cooperative Extension Service, pp. 28-31.

With L. M. Page

The food of spotted bass in streams of the Wabash River drainage. *Transactions American Fisheries Society*, 98, 4:647-51.

SWEENEY, DARYL C., Assistant Professor

Articles

The synthesis of dopamine from DOPA in the ganglia of *Mercenaria mercenaria* (Mollusca, Pelecypoda). *Comparative Biochemistry and Physiology*, 50:903-07.

WATTERSON, RAY L., Professor

Articles

With R. M. Sweeney

Changing body wall and rib defects after local application of nitrogen mustard to different mediolateral portions of rib-forming levels of two-day chick embryos. *Teratology*, 2:199-219.

Rib development in chick embryos analyzed by means of tantalum foil blocks. *American Journal of Anatomy*, 126:127-49.

WHITT, GREGORY S., Assistant Professor

Articles

Homology of lactate dehydrogenase genes: E gene function in the teleost nervous system. *Science*, 166:1156-58.

WILLSON, MARY F., Assistant Professor

Articles

Avian niche size and morphological variation. *American Naturalist*, 103:531-42.

With J. Verner

Mating systems, sexual dimorphism, and the role of male North American passerines in the nesting cycle. *Ornithological Monograph*, 9, 76 pp.

Reviews

A comparative study of the behavior of red-winged, tricolored, and yellow-headed blackbirds, by G. H. Orions and G. Christman. University of California Publications in Zoology 84, in *Animal Behavior*, 17:395.

DOCTORAL DISSERTATIONS

- Blem, Charles R. (S. C. Kendeigh, Adviser), Geographic variation in the bioenergetics of the house sparrow, *Passer domesticus*.
- Killby, Virginia A. A. (P. H. Silverman, Adviser), Electron microscopic and serologic studies of rodent malaria.
- Liem, Sioe S. (P. W. Smith, Adviser), the morphology, systematics, and evolution of the old world treefrogs (Rhacophoridae and Hyperolidae).
- Quadagno, David M. (E. M. Banks, Adviser), The effect of reciprocal cross-fostering on the behavior of two species of rodents.
- Seidenberg, Arthur J. (S. C. Kendeigh, Adviser), Studies on the biology of four species of fresh-water isopods (Crustacea, Isopoda, Asellidae) in east-central Illinois.
- Smith, Howard D. (D. F. Hoffmeister, Adviser), Small mammal populations and bioenergetics in the Wasatch Mountains, Utah.
- Sweeney, Robert M. (R. L. Watterson, Adviser), Rib development in chick embryos analyzed by means of tantalum foil blocks.
- Will, Raymond L. (S. C. Kendeigh, Adviser), Fecundity, density, and movements of a house sparrow population in southern Illinois.
- Zinsmeister, Philip P. (R. Davenport, Adviser), A histochemical and autoradiographic study of the ovarioles of the cockroach, *Periplaneta americana*, and the milkweed bug, *Oncopeltus fasciatus*.

ZONOOSES RESEARCH

FURUMOTO, HOWARD H., Post-doctoral Fellow

Articles

- Susceptibility of dogs to St. Louis encephalitis and other selected arthropod-borne viruses. *American Journal of Veterinary Research*, 30, 8:1371-80.

KOKERNOT, ROBERT H., Assistant Director and Professor

Articles

- With C. A. Brandy*
Arbovirus studies in the Ohio-Mississippi Basin, 1964-1967. I. Introduction. *The American Journal of Tropical Medicine and Hygiene*, 18, 5:743-49.
- With J. Hayes, R. L. Will, C. H. Tempelis, D. H. M. Chan, B. Radiwojević*
Arbovirus studies in the Ohio-Mississippi Basin, 1964-1967. II. St. Louis encephalitis virus. *Ibid.*, pp. 750-61.
- With J. Hayes, R. L. Will, B. Radiwojević, K. R. Boyd, D. H. M. Chan*
Arbovirus studies in the Ohio-Mississippi Basin, 1964-1967. III. Flanders virus. *Ibid.*, pp. 762-67.
- With J. Hayes, C. H. Tempelis, D. H. M. Chan, K. R. Boyd, R. J. Anderson*
Arbovirus studies in the Ohio-Mississippi Basin, 1964-1967. IV. Cache Valley virus. *Ibid.*, pp. 768-73.
- With J. Hayes, D. H. M. Chan, K. R. Boyd*
Arbovirus studies in the Ohio-Mississippi Basin, 1964-1967. V. Trivittatus and Western equine encephalomyelitis viruses. *Ibid.*, pp. 774-78.
- With C. H. Calisher, J. F. de Moore, K. R. Boyd, J. Hayes, W. A. Chappell*
Arbovirus studies in the Ohio-Mississippi Basin, 1964-1967. VI. Mermet: A Simbu-group arbovirus. *Ibid.*, pp. 779-88.
- With C. H. Calisher, L. J. Stannard, J. Hayes*
Arbovirus studies in the Ohio-Mississippi Basin, 1964-1967. VII. Lone Star virus, a hitherto unknown agent isolated from the tick *Amblyomma americanum* (Linn.). *Ibid.*, pp. 789-95.
- With B. Radiwojević, R. J. Anderson*
Susceptibility of wild and domesticated mammals to four arboviruses. *Ibid.*, 30, 12: 2197-2203.

CHICAGO CIRCLE

ACCOUNTING

FOX, SAMUEL, Professor

Articles

Future of the Professional School of Accountancy. *Wisconsin C.P.A.*, 19, 83:19-20.

Reviews

Legal environment of business, by Wyatt and Wyatt. *Choice*, 5, 11:1476.

MALINOSKY, ALFONSE T., Professor

Articles

Television, televised instruction, and teaching accounting by television. *The Illinois C.P.A.*, 31, 3:34-39.

SCHNEIDER, ALBERT J., Professor

Books

Self-instructional guide to federal income taxation. Prentice-Hall, Inc., New Jersey, 347 pp.

ANTHROPOLOGY

BOHANNAN, LAURA A., Associate Professor

Books

With P. J. Bohannan

Source book in Tiv religion (5 vols.). Human Relations Area Files, New Haven, Connecticut, 2299 pp.

CRONIN, CONSTANCE E., Assistant Professor

Reviews

Peasants no more: social class and social change in an underdeveloped society, by Joseph Lopreato. *American Anthropologist*, 70, 6:1245-46.

Recommended to read: family in transition: a study of 300 Yugoslav villages, by Vera St. Erlich. *Current Anthropology*, 9, 5:562.

GARBARINO, MERWYN S., Assistant Professor

Articles

With P. J. Bohannan, E. W. Carlson

An experimental ninth-grade anthropology course. *American Anthropologist*, 71, 3: 409-20.

Reviews

Formation of the state, by Lawrence Krader. *American Anthropologist*, 71, 3:509-10.

PROST, JACK H., Associate Professor

See Biological Sciences.

REED, CHARLES A., Professor and Acting Head of Department

Articles

The pattern of animal domestication in the prehistoric Near East. In *The domestication and exploitation of plants and animals*, ed. by Ucko and Dimbleby, Gerald Duckworth & Co., London, pp. 361-80.

With T. E. Lovejoy

The migration of the white stork in Egypt and adjacent areas. *Condor*, 71, 2:146-54.

Reviews

Pleistocene mammals of Europe, by Björn Kurtén. *Science*, 164:1387-88.

Pleistocene extinctions: the search for a cause, ed. by P. S. Martin and H. E. Wright, Jr. *Ecology*, 50, 2:343-45.

Quaternary extinctions of large mammals, by Daniel I. Axelrod. *Ibid.*, pp. 345-46.

SCHENSUL, STEPHEN L., Assistant Professor

Articles

With J. A. Paredes, P. J. Pelto

The "Twilight Zone" of poverty: a new perspective on an economically depressed area. *Human Organization*, 27:30-40.

SHACK, WILLIAM A., Associate Professor

Articles

Guilt and innocence: problem and method in the Gurage judicial system. In *Ideas and procedures in African customary law*, ed. by M. Gluckman, Oxford University Press, London, pp. 153-68.

Reviews

Reconstructing African culture history, ed. by Creighton Gabel and Norman R. Bennett. *American Anthropologist*, 71, 1:151-52.

Comment on: race relations, by Michael Banton. *Current Anthropology*, 10:207-08.

ARCHITECTURE

GERSTNER, ROBERT W., Professor

Articles

With J. Dundurs

Representation of stress concentration factors for a composite in plane strain. *Journal of Composite Materials*, 3, 1:108-15.

With J. Wronkiewicz

Pretension anchorage zone stresses. *Proceedings of the American Society of Civil Engineers*, 95, ST 9:2005-09.

MEGAREFS, GEORGE J., Professor

Articles

With R. Reiss

Minimal design of sandwich axisymmetric cylindrical shells obeying Mises' criterion. *Acta Mechanica*, 7, 1:72-98.

BIOENGINEERING

GOSE, EARL E., Associate Professor

Articles

Biological and mechanical pattern recognition. In *Methodologies of pattern recognition*, ed. by S. Watanabe, University of Hawaii, pp. 203-52.

The optimum replacement schedule for an evolving population of pattern recognition properties. In *Proceedings of the second Hawaii international conference on systems science*, Westren Periodicals, pp. 357-60.

With A. H. Klopff

An evolutionary pattern recognition network. *IEEE Transactions on System Science and Cybernetics*, SSC-5:247-50.

HENDRY, DEREK P., Associate Professor

Books

Conditioned reinforcement. Dorsey Press, Homewood, Illinois, 454 pp.

Articles

Behavioral control by a stimulus that predicts reinforcement. *Presbyterian-St. Luke's Medical Bulletin*, 8:6-17.

With R. W. Switalski, M. Yarczower

Periodic shock with added clock. *Journal of the Experimental Analysis of Behavior*, 12: 159-66.

Stimulus generalization of conditioned sup-

pression after differential training. *Journal of the Experimental Analysis of Behavior*, 12:799-806.

ZUBER, BERT L., Associate Professor

Articles

Oculomotor plant dynamics: electromyographic and transient responses in the cat. In *Proceedings of the fourth congress of the international federation of automatic control*, Warsaw, June.

Oculomotor organization in the cat: eye movement and electromyographic responses. *Journal of Applied Physiology*, 27:223-28.

Further considerations of delays in the oculomotor pathways. *Experimental Neurology*, 24:523-27.

The role of the extraocular electromyogram in eye movement control. *Proceedings of the 8th International Conference on Medical and Biological Engineering*, 15:2.

With R. J. Reinhart

Cellular activation patterns in the abducens nucleus during horizontal nystagmus in the cat. *Brain Research*, 15:284-87.

Horizontal eye movements from abducens nerve stimulation in the cat. *IEEE Transactions in Biomedical Engineering*, BME-17:11-15.

BIOLOGICAL SCIENCES

ANDERSON, LOUISE E., Assistant Professor

Articles

With R. C. Fuller

Photosynthesis in *Rhodospirillum rubrum* IV. isolation and characterization of ribulose 1, 5-diphosphate carboxylase. *Journal of Biological Chemistry*, 244, 12:3105-09.

Energy metabolism and control of an enzyme of the Calvin cycle. In *Progress in photosynthesis research*, ed. by Metzner, H. Laupp, Jr., Tubingen, Germany, vol. III, pp. 1618-23.

BARDACK, DAVID, Associate Professor

Articles

Anatomy and evolution of North American saurocephalid fishes. *Fieldiana: Geology*, 16, 10:297-340.

Reviews

Growth of a prehistoric time scale, based on organic evolution. *Choice*, 6, 1:87.

Animals mechanics. *Ibid.*, 4:533.

BUHSE, HOWARD E., JR., Associate Professor

Articles

With J. O. Corliss

Application of the scanning electron microscope to the study of the morphogenetic events of macrostome formation in *Tetrahymena vorax*. In *Proceedings of the second annual scanning electron microscope symposium*, IIT Research Institute, Chicago, pp. 169-74.

CUMMINGS, MICHAEL R., Assistant Professor

Articles

With R. C. King

The cytology of the vitellogenic stages of oogenesis in *Drosophila melanogaster*. I. General staging characteristics. *Journal of Morphology*, 128:427-42.

EGGERT, DONALD A., Associate Professor

Articles

With T. N. Taylor

Studies of spores from Carboniferous fructifications. I. Introduction and preliminary survey utilizing the scanning electron microscope. *Transactions of the American Microscopical Society*, 88, 3:431-44.

On the structure and relationships of a new Pennsylvanian species of the seed *Pachytesta*. *Palaeontology*, 12, 3:382-87.

Preliminary study of spores from Carboniferous fructifications utilizing the scanning electron microscope. In *Proceedings of the Engis Stereoscan colloquium*, pp. 97-107.

With R. W. Kryder

A new species of *Aulacotheca* (Pteridospermales) from the middle Pennsylvania of Iowa. *Ibid.*, 3:414-19.

With J. M. Frankenberg

Pertified *Stigmara* from North America: Part I. *Stigmara ficoides*, the underground portions of Lepidodendraceae. *Palaeontographica*, 128B:1-47.

GLASSMAN, SIDNEY F., Professor

Articles

Studies in the palm genus *Syagrus* mart. II. *Fieldiana Botany*, 32:77-103.

GOLDMAN, MANUEL, Assistant Professor

Articles

With M. E. Orłowski

Effect of chlorpromazine on the growth of bacteria. *Developments in Industrial Microbiology*, 10:279-83.

GREENBERG, BERNARD, Professor

Articles

In vitro cultivation of *Musca domestica* L. and *Musca sorbens* Wiedemann tissues. *Experimental Cell Research*, 54:284-87.

Salmonella suppression by known populations of bacteria in flies. *Journal of Bacteriology*, 99:629-35.

Sterile culture of *Musca sorbens*. *Annals of the Entomological Society of America*, 62: 450.

GUTTMAN, HELENE N., Professor

Articles

With E. S. Vitetta

Salt-Isoelectric-Density gradient (SID) Purification of rabbit IgG. *Proceedings of the Society of Experimental Biology and Medicine*, 130:577-81.

Reviews

The cultivation of parasites, by A. E. R. Taylor and J. R. Baker. *Transactions of the American Microscopical Society*, 88, 2:319-20.

HADLEY, ELMER B., Professor and Acting Head of Department

Articles

Physiological ecology of *Pinus ponderosa* in southwestern North Dakota. *The American Midland Naturalist*, 81, 2:289-314.

With D. A. Levin

Species contact in *Phlox*: control and response. *Ibid.*, 2:490-511.

Physiological evidence of hybridization and reticulate evolution in *Phlox maculata*. *American Journal of Botany*, 56, 5:561-70.

KERSTER, HAROLD W., Assistant Professor

Articles

With D. A. Levin

The dependence of bee-mediated pollen and gene dispersal upon plant density. *Evolution*, 4, 23:560-71.

Density-dependent gene dispersal in *Liatris*. *American Naturalist*, 929, 103:61-74.

KHAN, M. A. Q., Associate Professor

Articles

Some biochemical characteristics of the microsomal cyclodiene epoxidase system and its inheritance in the house fly. *Journal of Economic Entomology*, 62:388-92.

DDT-dehydrochlorinase and aldrin epoxidase activity in corn earworm and *Polyphemus* moth larvae and house fly adults. *Ibid.*, 62: 723-25.

With J. D. Rosen, D. J. Sutherland

Insect metabolism of photoaldrin and photo-dieldrin. *Science*, 164:318-19.

Properties of photoisomers of heptachlor and isodrin. *Journal of Agricultural and Food Chemistry*, 17:404-05.

With E. Hedgson, W. C. Dauterman,

H. M. Mehandale, E. Smith

Dietary choline requirements, phospholipids and development in *Phormia regina*. *Comparative Biochemistry and Physiology*, 29: 343-60.

Reviews

Enzymatic oxidations of toxicants, by E. Hodgson. *Science*, 165:166-67.

LOM, JIRI, Visiting Research Professor

Articles

Cold-blooded vertebrate immunity to Protozoa. In *Immunity to parasitic animals*, ed. by Jackson, Herman and Singer, Appleton-Century-Crofts, New York, pp. 249-65.

On a new taxonomic character in myxosporidia as demonstrated in description of two new species of *Myxobolus*. *Folia Parasitologica (Praha)*, 16:97-103.

With M. Laird

Parasitic protozoa from marine and euryhaline fish of Newfoundland and New Brunswick I. Peritrichous ciliates. *Canadian Journal of Zoology*, 47:1367-80.

With E. N. Kozloff

Ultrastructure of the cortical regions of anicstrocomid ciliates. *Protistologica*, 5: 173-92.

With L. Joyon

Etude cytologique, systematique et pathologique d'*Ichtyobodo necator* (Henneguy, 1883) Pinto, 1928 (Zooflagelle). *Journal of Protozoology*, 16:703-19.

With J. Weiser

Notes on two microsporidian species from *Silurus glanis* and on the systematic status of the genus *Glugea* Thelohan. *Folia parasitologica (Praha)*, 16:193-200.

MERTZ, DAVID B., Associate Professor

Articles

Age-distribution and abundance in populations of flour beetles. I. Experimental studies. *Ecological Monographs*, 39, 1:1-31.

NICOLETTE, JOHN A., Assistant

Professor

Articles

The effect of prolonged incubation on RNA polymerase activity from surviving rat

uteri. *Archives of Biochemistry and Biophysics*, 135, 1-2:253-58.

PROST, JACK H., Assistant Professor

Articles

A replication study on monkey gaits. *American Journal of Physical Anthropology*, 30, 2:203-08.

With R. W. Sussman

Monkey locomotion on inclined surfaces. *Ibid.*, 31, 1:53-58.

SEALE, THOMAS W., Assistant Professor

Articles

With M. Case, R. W. Barratt

Supersuppressors in *Neurospora crassa*. *Neurospora Newsletter*, 15:5.

SHAPIRO, STANLEY K., Professor

Articles

With D. J. Ehninger

Biosynthesis of Adenosylmethionine from adenosylhomocysteine in *Candida utilis*. *Biochimica Biophysica Acta*, 177:67-77.

SHOMAY, DAVID, Associate Professor

Reviews

The human brain and spinal cord, by Edwin Clarke and C. D. O'Malley. *Choice*, 5, 11:460.

The trematoda, by Ben Dawes. *Ibid.*, 6, 1:37.

The senses of man, by Joan Wilentz. *Ibid.*, 2:244.

Human neurological organization, by E. B. Lewinn. *Ibid.*, 7:844.

Handbook of clinical neurology, vol. 1, ed. by P. J. Vinken and G. W. Bruyn. *Ibid.*, 8:996.

Garrison's history of neurology, by L. C. McHenry, Jr. *Ibid.*, 9:1248.

Handbook of clinical neurology, vols. 5, 6, ed. by P. J. Vinken and G. W. Bruyn. *Ibid.*, 10:1374.

The shape of intelligence: the evolution of the human brain, by H. C. Elliott. *Ibid.*, p. 1426.

SPIESS, ELIOT B., Professor

Articles

With L. D. Spiess

Minority advantage in interpopulational matings of *Drosophila presimilis*. *American Naturalist*, 103:155-72.

Mating propensity, chromosomal polymorphism, and dependent conditions in *Drosophila persimilis* II. Factors between larvae and between adults. *Evolution*, 23:225-36.

With L. Ehrman

Rare-type mating advantage in *Drosophila*. *American Naturalist*, 103:675-80.

STARR, THEODORE J., Professor

Articles

With M. Wagner

Microbial interactions in the gnotobiotic mouse. In *Germfree biology*, Plenum Press, New York, pp. 389-98.

With R. G. Considine

Relationship of phagocytic activity to pathogenicity of mouse hepatitis virus as affected by triolein and cortisone. *British Journal of Experimental Pathology*, 50:475-80.

TAYLOR, THOMAS N., Associate Professor

Articles

Cycads: evidence from the upper Pennsylvania. *Science*, 164:294-95.

On the structure of *Bowmanites dawsoni* from the lower Pennsylvania of North America. *Palaeontographica B*, 125:65-72.

With M. A. Millay

Application of the scanning electron microscope in paleobotany. In *Proceedings 2nd scanning electron microscope symposium*, IIT Research Institute, pp. 107-15.

With T. Delevoryas

A probably pteridosperm with eremopterid foliage from the Allegheny Group of northern Pennsylvania. *Postilla*, 133:1-14.

With D. A. Eggert

Preliminary study of spores from Carboniferous fructifications utilizing the scanning electron microscope. *Proceedings Engis Stereoscan Colloquium*, Engis Equipment Co., Morton Grove, Illinois, pp. 97-107.

On the structure and relationships of a new Pennsylvania species of the seed *Pachytosta*. *Palaeontology*, 12:382-87.

Studies of spores from Carboniferous fructifications. I. Introduction and preliminary survey utilizing the scanning electron microscope. *Transactions of the American Microscopical Society*, 88:431-44.

WILEY, ROBERT B., Associate Professor

Articles

Staining shark skeletons with Alizarin Red S. *Turtax News*, 47:50-52.

With Ruth L. Willey

Visual and acoustical social displays by the grasshopper *Arphia conspersa* (Orthoptera: Acrididae). *Psyche*, 76, 3:280-305.

Reviews

Invertebrate Zoology, by Robert W. Hegner and Joseph G. Engemann. *Transactions of the American Microscopical Society*, 88:322-24.

Lower animals, by Martin Wells. *Ibid.*, pp. 324-26.

A guide to spiders and their kin, by Herbert W. Levi and Lorna R. Levi. *Ibid.*, pp. 326-27.

WILEY, RUTH L., Assistant Professor

Articles

The nymphal labial gland of damselflies (Zygoptera: Odonata). *Transactions of the American Microscopical Society*, 88:370-79.

With R. M. Dyer

A technique for Hydra mounts. *American Biology Teacher*, 31:304-06.

With Ruth B. Willey

Visual and acoustic social displays by the grasshopper *Arphia conspersa* (Orthoptera: Acrididae). *Psyche*, 76, 3:280-305.

BUSINESS ADMINISTRATION, MARKETING

FELDMAN, LAURENCE P., Assistant Professor

Articles

Of alphabets, acronyms and corporate identity. *Journal of Marketing*, 33, 3:72-75.

Reviews

Altitude research on the rocks, by Lee Adler and Irving R. Crespi. *Ibid.*, 1:107.

SCHLINGER, MARY J., Assistant Professor

Articles

On methods: cues on Q-Technique. *Journal of Advertising Research*, 9, 3:53-60.

WALES, HUGH G., Professor

Books

With H. T. Jorgensen, J. Oelund

Instruction guide for micro-precision watch maintenance and repair. Seattle Community College, Seattle, Washington, 362 pp.

WEIGAND, ROBERT E., Professor

Articles

Structural factors affecting the buying process. In *Proceedings of the chemical marketing research association*, New York, February, 633:12-16.

With Hilda Wasson

Liquor prices, fair trade, and Macy's. *The Southern Journal of Business*, April, 309 pp.

CHEMISTRY

BANGERTER, BENEDICT W., Assistant Professor

Articles

Proton magnetic resonance studies of ribose dinucleoside monophosphates in aqueous solution. II. The nature of the base-stacking interaction in adenylyl(3'-5')-adenosine. *Journal of the American Chemical Society*, 91:3910.

BAUMGARTEN, RONALD J., Assistant Professor

Articles

With P. J. DeChristopher, J. P. Adamek, G. D. Lyon, J. J. Galante, and others

A new approach to deamination. III. A simple procedure for the high-yield conversion of primary aliphatic amines into alkyl halides and alkenes via the use of sulfonamide leaving groups. *Journal of the American Chemical Society*, 91:2384.

BOYER, JOSEPH H., Professor

Articles

With W. E. Krueger, R. Modler

Acid catalyzed reactions of α - and β -styryl azides. *Journal of Organic Chemistry*, 34:1987.

With R. Selvarajan

Photolysis of vic-triazoles. *Tetrahedron Letters*, pp. 47-50.

Photoelimination of nitrogen from fused-ring triazoles. *Journal of Heterological Chemistry*, 6:503.

α,β -Dicyano-stilbene from phenylethynyl azide and from phenylethynyl isocyanate. *Journal of the American Chemical Society*, 91:6122.

With G. J. Mihel

o-Nitreno-biphenyl. *Chemical Communications*, p. 734.

With J. de Jong

Isomerization of *o*-biphenyl isocyanide into 1-azabenz[*b*]-azulene and the formation of both from *o*-biphenyl isothiocyanate. *Journal of the American Chemical Society*, 91:5929.

With W. Beverung

N-Cyclohexyldiphenylketenimine from cyclohexyl isocyanide and diphenyldiazomethane. *Chemical Communications*, p. 1377.

BROWN, THOMAS H., Associate Professor

Articles

With P. J. Green

High-resolution rhodium-103 nuclear magnetic

resonance spectra of $\text{Rh}[(\text{C}_6\text{H}_5)_3\text{P}] \text{COCl}$ and $\text{Rh}[(\text{C}_6\text{H}_5)_3\text{P}] \text{Cl}$. *Journal of the American Chemical Society*, 91:3378.

CARLIN, RICHARD L., Associate Professor

Books Edited

Transition metal chemistry, vol. 5. Marcel Dekker, Inc., New York, 305 pp.

FREEMAN, WADE A., Instructor

Articles

With *Yechezkel Rasiel*

Properties of real gases in limit of zero pressure. *Journal of Chemical Education*, 46: 310.

GISLASON, ERIC A., Assistant Professor

Articles

With *B. H. Maham, C. W. Tsao, A. Werner*

Dynamics of the reactions of N_2^+ with CH_4 and CD_4 . *Journal of Chemical Physics*, 50: 142-50.

Evidence for long-lived collision complexes in ion-molecule reactions: DO_2^+ from O_2^+ and D_2 , *Ibid.*, 54:18-19.

JAMESON, CYNTHIA J., Assistant Professor

Articles

With *H. S. Gutowsky*

Systematic trends in the coupling constants of directly bonded nuclei. *Journal of Chemical Physics*, 51:2780-803.

The signs of Kpc and other coupling constants in phosphorus and selenium compounds. *Journal of the American Chemical Society*, 91:6232-34.

KAGAN, JACQUES, Associate Professor

Articles

With *T. J. Mabry*

Isorhamnetin 3-O-rutinoside, the flavonoid pigment in *Batis maritima*. *Phytochemistry*, 8: 325.

With *S. P. Singh*

Some unusual acid-catalyzed rearrangements of glycidic esters. *Journal of the American Chemical Society*, 91:6198.

The addition of alcohols to ethyl acetoacetate and a photochemical lactonization reaction. *Journal of the American Chemical Society*, D, p. 1121.

With *J. T. Przybytek, S. P. Singh*

The liquid-phase photochemistry of acetone. *Ibid.*, p. 1224.

LIU, CHUI FAN, Professor

Articles

With *J. A. Ibers*

The structure and absolute configuration of (-)-546-cis, trans, cis-bis(diaminopropionato)cobalt (III) bromide, $[\text{Co}(\text{C}_6\text{H}_7\text{N}_2\text{O}_2)_2]\text{Br}$. *Inorganic Chemistry*, 8:1911.

MATTHEWS, CLIFFORD N., Professor

Articles

With *G. H. Birum*

Carbophosphoranes. *Accounts of Chemical Research*, 2:373.

MORIARTY, ROBERT M., Professor

Articles

With *K. C. Ramey, H. Gopal, R. Adams*

Nuclear magnetic resonance spectra of bridged bicyclic compounds. Solvent effects. *Journal of Organic Magnetic Resonance*, 1:101.

With *J. Sjoval*

Unusual migration of the trimethylsilyl ether group upon electron impact. Steroidal examples. *Journal of the American Chemical Society*, 91:1234.

With *J. Kim, S. Druck, E. Lustig*

The effect of temperature and solvent upon geminal protondeuterium spin-spin splitting. *Tetrahedron*, 25:1261.

With *T. Adams*

Base hydrolysis of haloacetones. The mechanism of ketone formation in the bicyclo (2,2,1) hyptyl system. *Tetrahedron Letters*, p. 3715.

With *N. Ishibe, M. Kayser, K. C. Ramey,*

H. J. Gisler, Jr.

Conformational studies on seven-membered rings containing the disulfide and trisulfide groups. *Ibid.*, p. 4885.

With *R. Mukherjee*

The photochemistry of meso-ionic thiadiazoles. *Ibid.*, p. 4627.

RASIEL, YECHESKEL, Assistant Professor

Articles

With *W. A. Freeman*

Properties of real gasses in the limit of zero pressure. *Journal of Chemical Education*, 46:310.

ROCEK, JAN, Professor

Articles

With *A. K. Awasthy*

The nature of the transition state in the oxidation of olefins by chromium VI. *Journal of the American Chemical Society*, 91:991.

SACKHEIM, GEORGE I., Assistant Professor

Books

With *R. M. Schultz*

Chemistry for the health sciences. MacMillan Co., New York, 471 pp.

SAGER, WILLIAM F., Professor and Head of Department

Articles

With *J. C. Hoffsommer*

Kinetics and mechanism for the reaction between alkyl hydroperoxides and tetranitromethane. *Journal of Physical Chemistry*, 73:4155.

CLASSICS

GEBHARD, ELIZABETH R., Assistant Professor

Articles

Actors and acting. In *The Muses at work*, ed. by Carl Roebuck, The MIT Press, Cambridge, pp. 250-69.

COMPUTER CENTER

SABELLI, NORA H., Instructor

Articles

With *J. Hinze*

Atomic multiconfiguration self-consistent-field wavefunctions. *The Journal of Chemical Physics*, 50:684-700.

CRIMINAL JUSTICE, ADMINISTRATION OF

BILEK, ARTHUR J., Professor

Articles

The administration of criminal justice. In *Law enforcement science and technology*, ed. by S. I. Cohn, I.I.T. Research Institute, pp. 7-15.

CAREY, J. T., Associate Professor

See Sociology

TIFFT, L. L., Instructor

See Sociology.

ECONOMICS

AUERBACH, ROBERT, Assistant Professor of Economics and Finance

Articles

With R. P. Moses

Measurement of expectations in economic analysis. American Statistical Association Proceedings, New York City, August 1969, pp. 518-19.

KOSOBUD, RICHARD F., Associate Professor

Articles

With J. Forsythe

Revisions of survey information and the quality of savings data. In *Proceedings of the 37th session of the International Statistical Institute*, London 1969, Volume 43, Book 2, pp. 44-49.

MOSES, RONALD P., Assistant Professor

Articles

With R. Auerbach

Measurement of expectations in economic analysis. American Statistical Association Proceedings, New York, August 1969, pp. 518-19.

SHAPIRO, SHERMAN, Professor

Books Edited

Proceedings, Annual Forecasting Conference: June 1969 Conference. American Statistical Association, Chicago Chapter, 271 pp.

With L. V. Conway

Proceedings, Annual Forecasting Conference: June 1968 Conference. American Statistical Association, Chicago Chapter, 139 pp.

EDUCATION

BAER, JEAN H., Professor

Articles

Future research trends. In *The vocational expert in the social disability program*, ed. by Feingold, S. Norman, Charles C. Thomas Publishing Co., Springfield, Illinois, pp. 71-77.

EASH, MAURICE J., Professor

Articles

Toward a viable system of supervision. *English Record*, 20, 1:79-86.

Assessing curriculum materials: a preliminary report. *Educational Product Report*, 2, 5:18-24.

GILES, GEORGE C., Associate Professor

Articles

Urban education—research and policy. *Illinois Journal of Education*, 60, 1:40-43.

Reviews

The disadvantaged child: studies of the social environment and the learning process, by Martin Deutsch and Associates. *Illinois Schools Journal*, 48, 4:284-86.

GREELEY, ANDREW M., Professor

Books

From backwater to mainstream: a profile of Catholic higher education. McGraw-Hill, Inc., New York, 182 pp.

Religion in the year 2000. Sheed and Ward, New York, 175 pp.

Why can't they be like us? American Jewish Committee, Institute of Human Relations Press, New York, 140 pp.

Articles

Continuities in research on *The Religious Factor*: a research note. *American Journal of Sociology*, 75, 3:355-59.

A note on political and social differences among ethnic college graduates. *Sociology of Education*, 42, 1:98-103.

Reviews and commentary: Moynihan and Drucker—demythologizers. *Educational Record*, 50, 34:319.

There's a new-time religion on campus. *The New York Times Magazine*, June 1.

With H. M. Bobren

Comparative financial and employee data on Catholic institutions of higher education. *National Catholic Education Association Bulletin*, 66:19-36.

KRUMBEIN, ELIEZER, Associate Professor

Articles

Wanted: a humane school environment. In *A quandary in education: providing for the emotionally disturbed adolescent in the public school setting*, ed. by Hilda T. Bruno, New Trier Township High School, Winnetka, Illinois, pp. 34-52.

Some legislators were responsive. *Curriculum Advisory Service*, 8, 4:187-89.

With A. Beck, F. D. Erickson

Strategies for change: conditions for school desegregation. *Phi Delta Kappan*, 50, 5: 280-83.

MENACKER, JULIUS, Assistant Professor and Associate Director of Admissions and Records

Articles

Articulation services appropriate to a public metropolitan commuter campus. *College and University*, 44, 1:60-66.

Admission practice as an instrument of public policy. *The National ACAC Journal*, 13, 3:18-20.

Subject articulation between high school and college. *The Clearing House*, 44, 4:220-23.

Are junior-college transfers second-class citizens? *The National ACAC Journal*, 14, 3/4:4-6.

MORRIS, VAN CLEVE, Professor and Dean

Books

Modern movements in educational philosophy. Houghton-Mifflin Company, Boston, 381 pp.

Articles

The modes of knowing. *The Philosophy Forum*, 8, 1:39-53.

RATCLIFFE, ROBERT H., Assistant Professor

Books Edited

Poverty and welfare. Houghton-Mifflin Co., Boston, 86 pp.

Law and the consumer. *Ibid.*, 101 pp.
Crimes and justice. *Ibid.*, 84 pp.

Articles

The Chicago project. *Legal Issues in Conflict*, 1, 1:18-21.

With J. R. Lee

The many faces of social studies. In *Readings on elementary social studies*, ed. by McLendon, Joyce, and Lee, Allyn and Bacon, Boston, pp. 60-66.

WELDON, WARD W., Instructor

Articles

Innovation dissemination, the fine art of making new ideas seem old. *Illinois School Boards Journal*, 37, 6:16-17.

In-service seminars involve staff in systematic study of future decade. *Contemporary Education*, 40, 6:343-48.

Reviews

The age of discontinuity, by Peter Drucker. *Training and Development Journal*, 23, 6:63-65.

The most probable world, by Stuart Chase. *Educational Leadership*, 27, 3:306-07.

ENERGY ENGINEERING

CHUNG, PAUL M., Professor

Articles

Periodic fluctuation of chemical species over a reactive surface. *The Physics of Fluids*, 12, 1:53-63.

Near-surface electron temperature of weakly ionized plasma according to kinetic theory. *The Physics of Fluids*, 12, 8:1623-34.

A simplified statistical model of turbulent, chemically reacting shear flows. *AIAA Journal*, 7, 10:1982-91.

COGLEY, ALLEN C., Assistant Professor

Articles

The radiatively driven discrete acoustic wave. *Journal of Fluid Mechanics*, 39:641-66.

With W. G. Vincenti

Application to radiative acoustics of Whitham's method for the analysis of non-equilibrium wave phenomena. *Ibid.*, pp. 667-94.

With S. E. Gilles, W. G. Vincenti

A substitute-kernal approximation for radiative transfer in a nongrey gas near equilibrium, with application to radiative acoustics. *International Journal of Heat and Mass Transfer*, 12:445-58.

GUTFINGER, CHAIM, Associate Professor

Articles

With H. Chen

Heat transfer with a moving boundary-application to fluidized-bed coating. *Ibid.*, pp. 1097-1108.

HACKER, DAVID S., Associate Professor

Articles

With P. Lieberman

A thermodynamic evaluation of a hydrocarbon using a thermite fuel. *Journal of Hydro-nautics*, 3:130-47.

HARTNETT, JAMES P., Professor and Head of Department

Books Edited

With T. F. Irvine, Jr.

Rational descriptions, decisions and designs,

by Myron Tribus-Author. Pergamon Press, New York, 471 pp.

Progress in heat and mass transfer, vol II, (Special Eckert Volume), Pergamon Press, New York, 499 pp.

Articles

With V. M. K. Sastri

Effect of an unheated solid starting length on skin-friction and heat transfer in a transpired laminar boundary layer, *Ibid.*, pp. 213-23.

With H. A. Simon, C. S. Liu

Transpiration cooling correlations for air and non-air free streams, *Ibid.*, pp. 187-94.

KIEFER, JOHN H., Associate Professor

Articles

With W. D. Breshars, P. F. Bird

Vibrational relaxation of HBr and HI in shock waves. *Journal of Chemical Physics*, 50:3641.

MINKOWYCZ, W. J., Associate Professor

Articles

With E. M. Sparrow

The effect of superheating on condensation heat transfer in a forced convection boundary layer flow. *International Journal of Heat Mass Transfer*, 12:147-54.

PIERSON, EDWARD S., Assistant Professor

Articles

With W. D. Jackson

Experimental study of a one-wavelength MHD induction generation. *Proceedings of the Tenth Symposium on Engineering Aspects of Magnetohydrodynamics*, Massachusetts Institute of Technology, Cambridge, pp. 53-57.

SASTRI, VEDANTAM M. K., Assistant Professor

Articles

With J. P. Hartnett

Effect of an unheated, solid starting length on skin friction and heat transfer in a transpired laminar boundary layer. *Progress in Heat and Mass Transfer, Vol. II*, Pergamon Press, New York, pp. 213-23.

SAXENA, SATISH C., Professor

Articles

With Y. S. Touloukian, R. W. Powell,

P. E. Liley, R. E. Taylor, and others

Unit for thermal conductivity: suggestion of a name for the SI unit. In *Proceedings eighth conference on thermal conductivity*, Plenum Press, New York, pp. 1152-53.

With V. P. S. Nain

Composition dependence of the thermal diffusion factor of binary gas systems. *Journal of Chemical Physics*, 51:1541-45.

With V. K. Saxena, G. P. Gupta

Measurement of the thermal conductivity of nitrogen (350° to 1500°K) by the column method. In *Proceedings eighth conference on thermal conductivity*, Plenum Press, New York, pp. 125-39.

With C. M. Kachhava

Reststrahlung frequency of ionic crystals: alkali halides. *Indian Journal of Pure & Applied Physics*, 7:154.

With M. P. Saksena, P. K. Tondon

Rotational and translational relaxation and thermal conductivity of nonpolar polyatomic gases. *Indian Journal of Pure & Applied Physics*, 7:79-82.

With V. K. Saxena

Separation of binary gas mixtures by thermal diffusion column. *A. Naturforschg*, 24a: 1378-82.

Thermal conductivity of krypton and xenon in the temperature range 350° to 1500°K. *Journal of Chemical Physics*, 51:3361-68.

The column method of measuring thermal conductivity of gases: results on carbon monoxide and oxygen in the temperature range 350° to 1500°K. *AIAA 4th Thermophysics Conference, San Francisco, AIAA Paper #69-603:1-8*.

Thermal conductivity of binary mixtures of rare gases and wassiljewa coefficients. In *Proceedings eighth conference on thermal conductivity*, Plenum Press, New York.

Zero pressure Joule-Thompson coefficient and exponential-six intermolecular potential. *Chemical Physics, Letters*, 4:81-83.

With C. M. Kachava

On the temperature variation of compressibility of ionic crystals: alkali halides. *Acta Physica*, 28:245-50.

A few properties of ionic crystals in the shell model. *Indian Journal of Applied Physics*, 42:685-90.

With L. Dass

Interatomic potential and certain properties of alkali halide and hydride molecules. *Indian Journal of Pure and Applied Physics*, 6:102-04.

SIMON, H. A., Associate Professor

Articles

With J. P. Hartnett, C. S. Liu

Transpiration cooling correlations for air and non-air free streams. *Progress in Heat and Mass Transfer, Vol. II*, Pergamon Press, New York, pp. 187-94.

ENGINEERING ADMINISTRATION

BUGLIARELLO, GEORGE, Dean of College and Professor of Engineering

Articles

An introduction to the stochastic simulation of flow processes. *Proceedings of the NATO Advanced Institute on Surface Hydrodynamics*, Bressanone, pp. 379-423.

With J. Sevilla

The peripheral plasma layer in pulsatile flow in hollow glass fibers. In *Advances in the microcirculation*, ed. by H. Harders, Karger, Basel, New York, 2:80-87.

With H. J. Day, P. H. P. Ho, V. T. Houghton

Evaluation of benefits of a flood warning system. *Water Resources Research*, 5, 5: 937-46.

With E. D. Jackson

A stochastic model of convective diffusion from a continuous source. *Journal of Hydraulic Research*, 7, 2:177-204.

With T. W. Calvert, T. G. Fox, T. K. Hung, M. H. Weissman

A study of health care in Western Pennsylvania. *Proceedings of the IEEE*, 57, 11: 1853-69.

With L. A. Jostes, J. T. Onstott

The expansion of the scope and role of hydro — a problem-oriented language for water resources. In *Proceedings, XIIth congress of the international association for hydraulic research*, Science Council of Japan, Kyoto, vol. A, pp. 1-8.

With C. E. Quevedo

Stochastic simulation of boundary layer flows.

In *Proceedings, ASCE Engineering mechanics division specialty conference on probabilistic concepts and methods in engineering*, Purdue University, Lafayette, Indiana, pp. 47-52.

WALRAVEN, H. DALE, Assistant Dean of College and Professor of Engineering

Books

With E. J. Caldario

Introduction to engineering design. Stipes Publishing Co., Champaign, Illinois, 94 pp.

ENGLISH

CONLEY, JOHN A., Professor

Articles

The doctrine of friendship in *Everyman*. *Speculum*, 44, 3:374-82.

GLADISH, ROBERT W., Assistant Professor

Articles

Mrs. Browning's "A Curse for a Nation": some further comments. *Victorian Poetry*, 7, 3:275-80.

KARANIKAS, ALEXANDER, Professor

Books

With Helen Karanikas

Elias Venezis. Twayne Publishers, Inc., New York, 158 pp.

Articles

Harmony Morse. *New Hampshire Profiles*, 18:19, 41-42.

KOGAN, BERNARD R., Professor

Reviews

Darwin and the *Beagle*, by Alan Moorehead. *Book Week*, Chicago Sunday *Sun-Times*, October 19:4.

Charles Dickens, 1812-70: a centennial volume, edited by E. W. F. Tomlin. *Book Week*, Chicago Sunday *Sun-Times*, December 14:8.

Charles Dickens and his world, by J. B. Priestly. *Book Week*, Chicago Sunday *Sun-Times*, December 14:8.

McFATE, PATRICIA A., Assistant Professor

Articles

James Stephens' *Deirdre* and its legendary sources. *Eire-Ireland*, 4:87-93.

James Stephens' verso additions to the manuscripts of *The Crock of Gold*. *Bulletin of the New York Public Library*, 73:328-44.

MILLS, RALPH J., Professor

Books

Creation's very self: on the personal element in recent American poetry. Texas Christian University Press, Fort Worth, 44 pp.

Articles

Critic of the month V. *Poetry*, 113, 4:262-84.

John Betjeman's poetry. *Descant*, 13, 3:2-18.

For the word, for the silence. *Poetry*, 125, 2:127-30.

Poems

For Henry Rago; The Perch. *Descant*, 14, 1:10-11.

NIMS, JOHN FREDERICK, Professor

Books

The poems of St. John of the Cross (rev. ed.). Grove Press, New York, 151 pp.

Books Edited

No gods are false, by Augustine Bowe. Mac-Millan and Co., New York, 80 pp.

Articles

The greatest English lyric? — Joe E. Skilmer's "Therese." *College English*, 29, 4: 322-31. Also in *The Overwrought Urn*, ed. by Charles Kaplan, Pegasus, New York, pp. 56-73.

On "they flee from me." In *Poetry: an introduction*, ed. by William G. Lane, D. C. Heath, Boston, pp. 344-48.

Poems and Translations

First date. *Mademoiselle*, February, p. 100. 1968.

Emily, 4. *Chicago Tribune Magazine*, June 14, p. 34. 1968.

Few things to say, Ghost, Folk song. *Tri-Quarterly*, Winter, 68-69, pp. 184-88; 193.

Paul Valéry: The graveyard by the sea. *Sewanee Review*, 77, 1:1-7.

Goethe: trilogy of passion. *Hudson Review*, 22, 1:63-69.

Goethe: two poems. *Boston University Journal*, 17, 1:24-27.

Goethe: the diary. *Playboy*, 15, December, pp. 212-13. 1968.

Bernart de Ventadorn: Era m-cossethatz, senhor. *Saturday Review*, September 20, p. 52.

Federico García Lorca: the unfaithful wife. In *Evergreen review reader*, ed. by B. Rosset, Grove Press, New York, p. 565.

Love poem. In *College English, the first year*, ed. by A. C. Morris and others, Harcourt, Brace, and World, New York, pp. 671-72.

Love poem. In *Poetry, premeditated art*, ed. by J. Jerome, Houghton Mifflin, Boston, p. 17.

Love poem. In *Imaginative literature*, ed. by A. C. Morris, B. Walker, P. Bradshaw, Harcourt, Brace and World, New York, p. 311-12.

Love poem. In *Wonders and surprises*, ed. by Phyllis McGinley, J. P. Lippincott, Philadelphia, pp. 56-57.

Love poem. In *Poetry: meaning and form*, ed. by J. Schwartz and R. C. Roby, McGraw-Hill, New York, pp. 192-93.

Midwest. In *Poetry, an introduction*, ed. by W. G. Lane, D. C. Heath, Boston, pp. 269-70.

For my son. In *Poems from hospital*, ed. by J. and H. Sergeant, Allen and Unwin, London, p. 45.

Driving at sunset; The weeds; Elevated; City rain at midnight; Girl marcher; Old philosophy professor; Poetry dignitary; To keep our metaphysics warm? In *Illinois Poets*, ed. by E. E. Stibitz, Southern Illinois University Press, Carbondale, pp. 176-79.

A pretty device of the fathers. In *Poems from the Virginia quarterly review*, University Press of Virginia, Charlottesville, p. 171.

Visiting poet. In *Pith and vinegar*, ed. by W. Cole, Simon and Schuster, New York, p. 60.

A.D. 2267. In *Voices (III)*, ed. by G. Summerfield, Rand McNally, Chicago, p. 69.

Girl marcher, Philosopher. In *Voices (V)*, *Ibid.*, pp. 51, 103.

SCHILLER, ANDREW, Professor

Books

With W. C. Greet, W. A. Jenkins

In other words . . . a junior thesaurus. Scott, Foresman and Co., Glenview, Illinois, 448 pp.

With M. Monroe, R. Nichols, W. Jenkins, C. Huck

Language and how to use it, book 5. *Ibid.*, 256 pp.

Language and how to use it, book 6. *Ibid.*, 256 pp.

Articles

The Gawain rhythm. *Language and Style*, 1, 4:268-94.

SILVERMAN, STUART J., Instructor

Poems

The fisherman, Ninth year coming home, Jonah (II). *The South Florida Poetry Journal*, 1, 2:23-25.

Leaving without leaving, Day and night. *Zeitgeist*, 2, 4:39-40.

In the general store. *The Colorado Quarterly*, 17, 3:305-06.

The game, The cat in the jungle. *The New Orleans Review*, 1, 2:132, 164.

The ant, The aging rhinoceros, Tribute. *Caryatid*, 1, 1:n.p.

Spring dreaming of spring. *Concerning Poetry*, 2, 1:32.

The whole man looking at the world. *Poetry Northwest*, 10, 3:44.

A few words for Sweeney. *TransPacific*, 1, 1:36.

Walking and talking poem. *Concerning Poetry*, 2, 2:72.

The old woman speaks. *The South Florida Poetry Journal*, 1, 3:36-38.

Metaphysical poser. *Unicorn*, 1, 4:19.

The garden. *The New Orleans Review*, 1, 4:66-67.

STRONKS, JAMES B., Professor

Articles

Two Frederic letters to Garland. *The Fred-eric Herald*, 3:4.

With others

Edgar Watson Howe: a critical bibliography. *American Literary Realism*, 2:1-69.

Joseph Kirkland: a critical bibliography. *Ibid.*

Reviews

The achievement of William Dean Howells: a reinterpretation, by Kermit Vanderbilt. *Ohio History*, 78:54-55.

Hamlin Garland's diaries, ed. by Donald Pizer. *Wisconsin Magazine of History*, 52: 176.

The letters of Carl Sandburg, ed. by Herbert Mitgang. *Journal of the Illinois State Historical Society*, 62:103-04.

VEST, EUGENE B., Professor

Reviews

The Jacobean and Caroline stage, by Gerald Eades Bentley. *Choice*, 6:526.

WINE, MARTIN L., Professor

Books

Drama of the English Renaissance. Modern Library, Random House, New York, 786 pp.

WOOLLEY, DALE E., Assistant Professor

Articles

- Some observations on stridency in English. In *Papers from the fourth regional meeting Chicago Linguistic Society*, ed. by Darden, Bailey, and Davison, Department of Linguistics, University of Chicago, Chicago, 141-45, 1968.

WRIGHT, ELIZABETH V., Professor

Articles

- Bibliography of short fiction explication. *Studies in Short Fiction*, 6, 4:486-522.

Reviews

- The listener and other stories, by Helen Hudson. *Choice*, 6:215.
The collected stories, by Jean Stafford. *Choice*, 6:821.

FRENCH

BENDER, EDMUND J., Assistant Professor

Books

- Bibliographie: Charles Nodier. *Purdue University Studies*, Lafayette, Indiana, 83 pp.

CLARK, PRISCILLA P., Assistant Professor

Articles

- Balzac and the bourgeoisie, *Tennessee Studies in Literature*, 14:51-59.
The bourgeois in the novel and the society of the July Monarchy. *Texas Studies in Literature and Language*, 11, 2:975-84.

HALLOWELL, ROBERT E., Professor

Articles

- The role of French writers in the royal entries of Marie de' Medici in 1600. *Studies in Philology*, 66, 2:182-203.

Reviews

- The birth of the elegy in France 1500-1550, by Christine M. Scollen. *Renaissance Quarterly*, 22, 2:168-70.
Les oeuvres de Pierre de Ronsard: Text of 1587, ed. by Isidore Silver. *Modern Language Journal*, 54, 3:214-15.

LOMBARD, CHARLES M., Professor

Articles

- French Romanticism on the American stage. *Revue de littérature comparée*, 43, 4:161-72.

PERRY, KENNETH I., Assistant Professor

Books

- The religious symbolism of André Gide. Mouton and Co.; The Hague, 135 pp.

GEOLOGICAL SCIENCES

BAUR, WERNER H., Professor

Articles

- The crystal structure of paravauxite, $\text{Fe}^{2+}\text{Al}_2(\text{PO}_4)_2(\text{OH})_2(\text{OH}_2)_6 \cdot 2\text{H}_2\text{O}$. *Neues Jahrbuch Mineralogie, Monatshefte*, 9:430-33.
A comparison of the crystal structures of Pseudolaueite and Laueite. *American Mineralogist*, 54, 9-10:1312-23.

DE MAR, ROBERT E., Associate Professor

Reviews

- Understanding evolution, by Herbert H. Ross. *American Biology Teacher*, 31, 2:116.
Taxonomy: a text and reference book, by Richard E. Blackwelder. *American Biology Teacher*, 31, 3:189-90.

FORBES, WARREN C., Assistant Professor

Articles

- Zircons of the White Mountain Magma Series: Belknap Mountain Complex. *American Mineralogist*, 54:787-95.
Unit-cell parameters and optical properties of talc on the join $\text{Mg}_2\text{Si}_4\text{O}_{10}(\text{OH})_2\text{-Fe}_2\text{Si}_4\text{O}_{10}(\text{OH})_2$. *American Mineralogist*, 54:1399-1408.

McCAMMON, HELEN M., Visiting Associate Professor

Articles

- The food of articulate brachiopods. *Journal of Paleontology*, 43, 4:976-85.
With J. A. Auld, J. A. Watson
Adsorption of iron to the shells of brachiopods. *Geological Society of America Bulletin*, 80, 3:527-30.

McCAMMON, RICHARD B., Associate Professor

Articles

- Multivariate methods in geology. In *Models of geologic processes*, ed. by Fenner, American Geological Institute, Washington, D.C., pp. 71-242.

Bulletins and Technical Reports

- Fortran IV program for nonlinear estimation. *Computer Contribution 34*, Kansas Geological Survey, Lawrence, Kansas, 20 pp.

PAPADOPULOS, STAVROS S., Associate Professor

Articles

- With R. W. Larsen, F. C. Neil
Ground-water studies—Chicagoland deep tunnel system. *Ground Water*, 7, 5:2-15.

RODOLFO, KELVIN S., Assistant Professor

Articles

- Bathymetry and marine geology of the Andaman Basin, and tectonic implications for Southeast Asia. *Geological Society of America Bulletin*, 80, 7:1203-30.
Sediments of the Andaman Basin, north-eastern Indian Ocean. *Marine Geology*, 7, 5:371-402.

SADLICK, WALTER, Associate Professor

Articles

- With M. H. Nitecki
Notable color pattern in a fossil brachiopod. *Journal of Paleontology*, 42, 6:403-05.

TILLMANN, EKKEHART, Assistant Professor

Articles

- Die Kristallstruktur von $\text{BaTi}_5\text{O}_{11}$. *Acta Crystallographica*, B25:1444-52.

GERMAN

BETZ, FREDERICK, Instructor

Reviews

- Der frühe Fontane: 1840 bis 1860 — Politik-Poesie-Geschichte, by Helmut Nürnberger. *Monatshefte*, 61, 3:309-11.

HEITNER, ROBERT R., Professor

Reviews

- On the Aesthetic Education of Man. In *A series of letters*, by Friedrich Schiller, ed. and trans. by E. M. Wilkinson and L. A. Willoughby. *The Journal of English and German Philology*, 68:485-90.

- Die Gedichte Schillers, by Martin Dyck. *Modern Language Notes*, 84:487-89.
 Henrich Stillings Jugend, Jünglingsjahre, Wanderschaft und häusliches Leben, by J. H. Jung-Stilling, ed. by Dieter Cunz. *The German Quarterly*, 42:732-34.

JENNINGS, LEE B., Professor

Reviews

- Eduard Mörike, by Gerhard Storz. *Journal of English and Germanic Philology*, 68: 140-43.

KAUF, ROBERT, Professor

Reviews

- Deutsches Lesebuch. Band 4, ed. by Walther Killy. *The German Quarterly*, 42:116.
 Ludus de Antichristo. *Ibid.*, p. 296.
 Lyrik des 18. Jahrhunderts, ed. by K. O. Conrady. *Ibid.*, p. 297.
 Sokratische Denkwürdigkeiten: Aesthetica in nuce, by Johann Georg Hamann. *Ibid.*, p. 297.
 Das Mädcl aus der Vorstadt, by Johann Nestroy. *Ibid.*, p. 298.
 Sonnenuntergang im Prater, by Peter Altenberg. *Ibid.*, p. 298.
 Grosse Welt auf kleinen Schienen, by Herbert Eisenreich. *Ibid.*, p. 299.
 Geschichte des deutschen Briefes, by Georg Steinhausen. *Ibid.*, p. 299.
 Die Zaubrerflöte, ed. by Paul Zaubert. *Ibid.*, p. 300.
 Goethe's Hermann und Dorothea, ed. by Keith Spalding. *Ibid.*, p. 461.
 Goethe's Faust: der Tragödie erster Teil, ed. by W. H. Bruford. *Ibid.*, p. 462.
 Schiller's Wilhelm Tell, ed. by William F. Mainland. *Ibid.*, p. 462.
 Theodor Fontane's Frau Jenny Treibel, ed. by H. B. Garland. *Ibid.*, pp. 462-63.
 Emblematum Tyrocinia, by Mathias Holtzwart. *Ibid.*, p. 463.
 Die Schauspiele der englischen Komödianten, by W. Creizenach. *Ibid.*, pp. 463-64.
 Die Pietisterei im Fischbein-Rocke, by Luise Adelgunde Victorie Gottsched. *Ibid.*, p. 464.
 Goethe: Sein Leben und seine Zeit, by Richard Friedenthal. *Ibid.*, pp. 464-65.
 Phantasia, by Arno Holz. *Ibid.*, pp. 466-67.
 Der Schriftsteller Heinrich Böll, ed. by Werner Lengning. *Ibid.*, p. 467.
 Meyers Grosses Handlexikon der gesamten Wissenschaft. 10. Auflage. *Ibid.*, pp. 763-64.
 Das grosse Duden-Lexikon in acht Bänden. Band VIII. *Ibid.*, p. 764.
 Deutsches Wörterbuch, by Hermann Paul. 6. Auflage. *Ibid.*, pp. 764-65.
 Der Wortschatz des deutschen Pietismus, by August Langen. *Ibid.*, p. 765.
 Über das Selbstverständliche, by Günter Grass. *Ibid.*, pp. 765-66.
 Börne's Menzel der Franzosenfresser und andere Schriften, ed. by Walter Hinderer. *Ibid.*, p. 766.
 Gedichte, by Friedrich von Hagedorn. *Ibid.*, pp. 115-16.
 Faust. Die Matrone von Ephesus, by Gotthold Ephraim Lessing. *Ibid.*, p. 116.

OTTO, KARL F., Assistant Professor

Reviews

- Einhard, Vita Caroli Magni, Das Leben Karls des Grossen, ed. by Evelyn Scherabon Coleman. *The German Quarterly*, 42:114.

Andreas Gryphius, Gedichte, ed. by Adalbert Elschenbroich. *Ibid.*, p. 115.

Andreas Gryphius, Cardenio und Clinde oder unglücklich verliebte, ed. by Rolf Tarot. *Ibid.*, p. 115.

Die Pegnitz-Schäfer: Nürnberger barockdichtung, ed. by Eberhard Mannack. *Ibid.*, pp. 266-67.

SHAW, LEROY R., Professor

Reviews

- Bertolt Brecht: Der kaukasische Kreidekreis, ed. by Victor Lange. *Ibid.*, pp. 759-61.
 Günter Eich: Die Brandung vor Setubal, ed. by Robert Browning. *Ibid.*, pp. 759-61.
 Max Frisch: Graf Öderland, ed. by George Salamon. *Ibid.*, pp. 759-61.
 Hermann Hesse: Späte Prosa, ed. by Theodore Ziolkowski. *Ibid.*, pp. 759-61.
 Hans Erich Nossack: Der Untergang, ed. by Edgar Lohner. *Ibid.*, pp. 759-61.
 Lessing and language of comedy, by Michael M. Metzger. *Lessing Yearbook 1*, pp. 268-72.

TEICHMANN, ELIZABETH, Professor

Reviews

- Karl Immermann, Tulifantchen. *The German Quarterly*, 3:465-66.
 Henry Crabb Robinson und seine deutschen Freunde, by Hertha Marquardt. *Ibid.*, pp. 437-38.

VARDAMAN, HAZEL, Professor

Reviews

- Programmed German Dictionary, by Christian Gellinek. *The German Quarterly*, 1:110.
 Teaching Foreign-language Skills, by Wilga M. Rivers. *The German Quarterly*, 3: 450-52.

WILLNER, ERNEST S., Associate Professor

Books

With D. L. Bergren

- Münchhausen Ohnegleichen. National Textbook Company, Skokie, Illinois, 81 pp.

GRADUATE COLLEGE

KAUVAR, GERALD B., Assistant Dean

Books

- The other poetry of Keats. Fairleigh Dickinson University Press, New Jersey, 240 pp.

Books Edited

With G. C. Sorensen

- The victorian mind. G. P. Putnam's Sons, New York; Cassell, England; Longman's, Canada, 375 pp.

Articles

- Coleridge, Hawkesworth, and "The willing suspension of disbelief." *Papers on Language and Literature*, 5:91-94.

HEALTH SERVICE

KYSAR, JOHN E., Associate Professor and Head of Department

Articles

With M. S. Zaks, H. P. Schuchman, G. L. Schon, J. Rogers

- Range of psychological functioning in "normal" late adolescents. *Archives of General Psychiatry*, 21:515-28.

HISTORY

BILL, SHIRLEY A., Professor

Articles

Full faith and credit and early American federalism. *Journal of World History*, 11, 4:722-54.

CONRAD, ROBERT E., Assistant Professor

Articles

The contraband slave trade to Brazil, 1831-1845. *The Hispanic American Historical Review*, 49:617-38.

CRACRAFT, JAMES E., Assistant Professor

Articles

James Brodgen in Russia, 1787-1788. *Slavonic and East European Review*, 47, 108: 219-44.

Reviews

The enslavement of the Russian peasantry, by R. E. F. Smith. *English Historical Review*, 84, 333:832-33.

EDIE, CAROLYN A., Associate Professor

Reviews

William Penn: Politics and conscience, by Mary M. Dunn. *The Journal of Modern History*, 41, 3:381-82.

HESS, ROBERT L., Associate Professor

Articles

Toward a history of the Falasha. *Eastern African History, Boston University Papers on Africa*, III, ed. by D. F. McCall, N. R. Bennett, and J. Butler. Boston University Press, Boston, pp. 107-32.

The poor man of God: Muhammad Abdullah Hassan. *Leadership in Eastern Africa: six political biographies*, ed. by N. R. Bennett, Boston University Press, Boston, pp. 63-108.

Introduction to the second edition. In *Wanderings among the Falashas in Abyssinia*, by Henry Stern. Frank Cass, London, pp. vii-xxxvii.

Reviews

L'Afrique en XX^e siècle, by J. H. Ganiage, H. Deschamps and O. Guitard. *American Historical Review*, 74:240-41.

HOLLI, MELVIN G., Associate Professor

Books

Reform in Detroit: Hazen S. Pingree and urban politics. Oxford University Press, New York, 269 pp.

Articles

A view of the American campaign against Filipino insurgents, 1900. *Philippine Studies*, 17, 1:97-111.

LEGON, RONALD P., Assistant Professor

Articles

The peace of Nicias. *Journal of Peace Research*, 4:321-32.

PATTERSON, DAVID S., Assistant Professor

Reviews

America's political dilemma: from limited to unlimited democracy, by Gottfried Dietze. *Wisconsin Magazine of History*, 52:269-70.

American appeasement: United States foreign policy and Germany, 1933-1938, by Arnold A. Offner. *Mid-America*, 51:219-20.

Pacifism in the United States from the colonial era to the first world war, by Peter Brock. *The Historian*, 31:636-39.

SAVELLE, MAX, Visiting Professor

Reviews

Phineas Bond: a study in Anglo-American relations, 1786-1812, by Joanne Loewe Neal. *Pennsylvania Magazine of History and Biography*, June, pp. 450-51.

Witchcraft in Salem, by Chadwick Hansen. *The Annals of the American Academy of Political and Social Science*, 386:180.

Benjamin Franklin and nature's God, by Alfred Owen Aldridge, and the papers of Benjamin Franklin, Vol. XII, ed. by Leonard W. Laboree, and others. *American Historical Review*, 75, 2:577-78.

THADEN, EDWARD C., Professor

Articles

N. A. Manaseins senatorenrevision in livland und kurland während der zeit von 1882 bis 1882. *Jahrbücher für Geschichte Osteuropas*, 17:45-58.

Reviews

Vospominaniia i mysli istorika, by N. M. Druzhinin. *Jahrbücher für Geschichte Osteuropas*, 17:120-21.

W kregu konserwatywnej utopii: struktura przemiany rosyjskiego slowianofilstwa, by Andrzej Walicki. *Polish Review*, 14:116-17.

Danilevsky: a Russian totalitarian philosopher, by R. E. MacMaster. *Slavic Review*, 28:487-89.

Vnesniaia politika rossii xix i nachala xx veka. *American Historical Review*, 75: 170-71.

WOLF, JOHN B., Professor

Articles

The Bourbons. *Encyclopedia Americana*, 4: 346-48.

Eighteenth century France. *Ibid.*, 10:34-35.

Reviews

Louis XIV's view of the Papacy, 1661-1667. *Catholic Historical Review*, October, pp. 479-80.

INFORMATION ENGINEERING

CONANT, ROGER C., Assistant Professor

Articles

The information transfer required in regulatory processes. *Institute of Electrical and Electronics Engineers Transactions on Systems Science and Cybernetics, SSC-5*, 4: 334-48.

CONSIGNY, RUCELLE L., III, Assistant Professor

Articles

With J. R. Madigan

Anisotropic surface barriers on CdSe. *Solid State Communications*, 7, 1:189-93.

Anisotropic surface effects on cadmium selenide. *Bulletin American Physical Society*, 2, 14, 1:137.

INADA, HITOSHI, Visiting Assistant Professor

Articles

With M. A. Plonus

Numerical results for backscattering from large, high-density dielectric spheres. *Proceedings of the Institute of Electrical and Electronics Engineers*, 57:1192-93.

Surface wave contributions to the backscattering from large, high-density dielectric spheres. *Proceedings of Conference on En-*

Environmental Effects on Antenna Performance, 2:73-75.

ORSIC, MILJENKO, Assistant Professor

Articles

With S. S. Yau

Synthesis of universal logic modules. *Proceedings of the Third Annual Princeton Conference on Information Sciences and Systems*, 1969:498-503.

PRIEMER, ROLAND, Assistant Professor

Articles

With A. G. Vacroux

Estimation in linear discrete systems with multiple time delays. *Institute of Electrical and Electronic Engineers, AC-14*, 2:384-87.
Fixed lag smoothing in linear discrete systems with time delays. *Proceedings of the Allerton Conference on Circuit and Systems Theory*, 7:389-91.

SANATHANAN, CHATHILINGATH K.,

Associate Professor

Articles

With G. J. Fischer, and others

Fast reactor accident study. *Proceedings of the conference on the effective use of computers in nuclear industry*, University of Tennessee, Knoxville, pp. 51-55.

Transient analysis and design of distributed parameter systems with the aid of hybrid computers. *Proceedings of the First Annual Houston Conference on Circuits, Systems and Computers*, pp. 462-73.

With W. D. O'Neill

A minimum variance time optimal control systems model of human lens accommodation. *Institute of Electrical and Electronic Engineers Transactions on Systems Science and Cybernetics, SSC-5*, 4:290-300.

TSAI, STEPHEN, Assistant Professor

Articles

Markov characterization of the HF channel. *Institute of Electrical and Electronic Engineers Transactions on Communication Technology, COM-17*, 1:24-32.

With P. McManamom, R. V. Janc

Comparison of diversity, nondiversity, and coding on a parallel FSK HF channel. *Institute of Electrical and Electronic Engineers Transactions on Communication Technology, COM-17*, 3:355-67.

INSTRUCTIONAL RESOURCES

HANEY, JOHN B., Director of Department and Professor of Speech

Articles

With P. C. Lange, J. Barson

The heuristic dimension of instructional development. *Audiovisual Communication Review*, 16, 4:358-71.

Reviews

The teaching-learning paradox: a comparative analysis of college teaching, by Robert Dubin, Thomas C. Taveggia. *Audiovisual Communication Review*, 17, 4:435-37.

New media and college teaching, ed. by James W. Thornton, Jr., James W. Brown. *Audiovisual Communication Review*, 17, 4:438-39.

MARKLE, SUSAN M., Professor of Psychology and Head of Programed Instruction

Books

Good frames and bad: a grammar of frame

writing. (2nd ed.). John Wiley & Sons, Inc., New York, 308 pp.

Articles

Programed instruction: what is it to whom? *Educational Product Report*, 2, 6:12-13.

TIEMANN, PHILIP W., Assistant Professor of Education and Head of Course Development

Books

With Susan M. Markle

Really understanding concepts: or, in frumious pursuit of the jabberwock. Stipes Publishing Co., Champaign, Illinois, 48 pp.

With R. J. Beck, R. S. Feingold

Course outline for physical fitness: fundamentals for developing an individual program. *Ibid.*, 87 pp.

Articles

Analysis and the derivation of valid objectives. *Journal of the National Society for Programed Instruction*, 8:16-18.

LIBERAL ARTS AND SCIENCES

ADMINISTRATION

LITTLE, ELLIS B., Associate Dean and Professor

Articles

With J. W. Creaser

Deriving a personality characteristic from test-taking behavior. *Psychological Reports*, 25:877-78.

LIBRARY

DEUTSCH, RAYMOND H., Instructor

Books

With J. Fyfe

Directory of special collections in Canadian libraries Canadian Library Association, Ottawa, 2 vols.

MCCREE, MARY LYNN, Assistant Professor

Books Edited

With A. F. Davis

Eighty Years at Hull-House. Quadrangle Books, Chicago, 255 pp.

Reviews

Beloved lady: a history of Jane Addams' ideas on reform and peace, by John C. Farrell. *Journal of the Illinois State Historical Society*, 61, 4:481-83.

MEIER, MARVIN O., Instructor

Reviews

Director of government agencies safeguarding consumer and environment. *RQ (American Library Association Reference Services Division)*, 9:172.

Taylor's encyclopedia of government officials, federal and state, by John Clements. *Ibid.*, p. 173.

NAKATA, YURI, Assistant Professor

Articles

Documents at the circle. *Illinois Libraries*, 51: 568-71.

MANAGEMENT

BAUM, BERNARD H., Professor

Articles

With P. Sorensen

A "total" approach to job classification. *Personnel Journal*, 48, 1:31-32.

With P. Sorensen, W. Place

Patterns of consensus in the perception of organizational control. *Sociological Quarterly*, 10, 3:335-40.

With E. Burack

Information technology, manpower development and organizational performance. *Academy of Management Journal*, 12, 3:279-91.

JABLONSKI, RONALD E., Associate Professor

Books

With F. G. Moore

Production control (3rd ed.). McGraw-Hill Book Co., Inc., New York, 770 pp.

MATERIALS ENGINEERING

BELYTSCHKO, TED B., Assistant Professor

Articles

With C. T. Herakovich, P. G. Hodge, Jr.

Quadratic programming and plasticity. *Computational Approaches in Applied Mechanics*, American Society of Mechanical Engineers, New York, pp. 73-85.

BLEWITT, THOMAS H., Professor

Articles

With R. E. Black, E. E. Gruber, B. D. Sharma, J. A. Tesk

Cryostat-spectrometer system for precision measurement of lattice parameters of irradiated materials. *Review of Scientific Instruments*, 40:1429-32.

BRYANT, ROBERT H., Assistant Professor

Articles

With S. L. Lee, T. Mura

Mises limit load for simply supported conical sandwich shells under internal pressure. *Ingenieur-Archiv*, 37, 5:21.

With J. M. Doyle

Elastic-plastic analysis of a thin cylindrical tube. *American Society of Mechanical Engineers*, 7:1-5.

DOMAGALA, ROBERT F., Associate Professor

Articles

With R. Ruh

The system zirconium-hafnium-oxygen. *Transactions of the American Society of Metals*, 62, 4:915-25.

DOYLE, JAMES M., Associate Professor

Articles

A general solution for strain-gradient elasticity theory. *Journal of Mathematical Analysis and Applications*, 27:171-80.

With R. H. Bryant

Elastic-plastic analysis of a thin cylindrical tube. *American Society of Mechanical Engineers*, 7:1-5.

GEIGER, GORDON H., Associate Professor

Articles

The role of computers in electric furnace melting. *Proceedings of the Symposium on Electric Furnace Melting*, American Foundrymen's Society, 7:1.

With J. Svoboda

The vapor penetration mechanism of metal penetration. *Transactions of the American Foundrymen's Society*, 77:281-88.

Diffusion of metal vapor species in porous aggregates. *Transactions of the American Institute of Metallurgical Engineers*, 245: 2363-71.

With S. D. Sanders

Melting system selection for steel jobbing foundries. *The Design of Metal Producing Processes*, American Institute of Metallurgical Engineers, New York, pp. 124-43.

MASUR, ERNEST F., Professor

Articles

With J. E. Taylor

On the stiffest and strongest elastic structure. *Proceedings of the Second Canadian Congress of Applied Mechanics*, Waterloo, Ontario, p. 107.

ROSTOKER, WILLIAM, Professor

Articles

Thermal fatigue resistance of martensitic steels. *Journal of Materials*, 4:117-44.

Thermal fatigue resistance of grey cast iron. *Ibid.*, pp. 909-23.

SCHEY, JOHN A., Professor

Articles

With P. W. Wallace

Metal flow in forging: a practical study. *Advances in Machine Tool Design and Research: Proceedings of the 8th International MTDR Conference*, Manchester, England, Pergamon Press, pp. 1361-80.

With J. A. Newnham

Effect of die surface composition on friction and adhesion in deformation processing. *Transaction of the American Society of Mechanical Engineers*, Series F: *Journal of Lubrication Technology*, 91:351-59.

SCHIFFMAN, ROBERT L., Professor

Articles

The influence of adhesion on the stresses and displacements in an elastic half-space. *Highway Research Board*, 28:2:17-24.

Secondary consolidation of clays—a visco-elastic analysis. *Proceedings of the Seventh International Conference of Soil Mechanics and Foundation Engineering*, 12:60-73.

With A. T.-F. Chen, J. C. Jordan

An analysis of consolidation theories. *Journal of the Soil Mechanics Foundations Division, American Society of Civil Engineers*, 95, SM1:285-312.

SCHULTZ, ALBERT B., Associate Professor

Articles

With S. Tsai

Measurements of complex dynamic moduli for laminated fiber-reinforced composites. *Journal of Composite Materials*, 3:434-43.

With J. O. Galante

Measurement of forces exerted in the correction of idiopathic scoliosis using three-component dynamometers. *Experimental Mechanics*, 9:419-23.

TING, THOMAS C. T., Associate Professor

Articles

Interaction of shock waves due to combined two shear loadings. *International Journal of Solids and Structures*, 5:415-35.

On the initial slope of elastic-plastic boundaries in combined longitudinal and torsional wave propagation. *Journal of Applied Mechanics*, 36, 2:203-11.

A mixed boundary value problem in visco-elasticity with time dependent boundary regions. *Developments in Mechanics: Proceedings of the Eleventh Midwestern Mechanics Conference*, 5:591-99.

Simple waves in an extensible string. *Journal of Applied Mechanics*, 36, 4:893-95.

With Ning Nan

Plane waves due to combined compressive and shear stresses in a halfspace. *Journal of Applied Mechanics*, 36, 2:189-97.

With E. H. Lee

Wave front analysis in composite materials. *Journal of Applied Mechanics*, 36, 3:497-504.

WIDERA, OTTO E., Associate Professor**Articles**

An asymptotic theory for the vibration of anisotropic plates. *Ingenieur-Archiv*, 38: 46-52.

An asymptotic theory for the moderately large deflections of anisotropic plates. *Journal of Engineering Mathematics*, 3:239-94.

Vergleich des dynamischen verhaltens von ein- und mehrteiligen schabotten beim stauchen. *Umformtechnik (Industrie-Anzeiger)*, 91: 659-63.

With R. Amon

Clamped annular plate under a concentrated force. *Journal of the American Institute of Aeronautics and Astronautics*, 7:151-53.

With M. W. Johnson

An asymptotic theory for the vibration of cylindrical shells. *Studies in Applied Mathematics*, 48:205-26.

With C. H. Wu

Stability of a thick rubber solid subject to pressure loads. *International Journal of Solids and Structures*, 5:1107-17.

WU, CHIEN H., Assistant Professor**Articles****With O. E. Widera**

Stability of a thick rubber solid subject to pressure loads. *International Journal of Solids and Structures*, 5:1107-17.

MATHEMATICS**BALBES, RAYMOND, Visiting Assistant Professor****Articles**

A note on distributive sub-lattices of a modular lattice. *Fundamenta Mathematicae*, 65: 219-22.

A representation theory for prime and implicative semi-lattices. *Transactions of the American Mathematical Society*, 136:261-67.

DWINGER, PHILIP, Professor**Articles**

Ideals in generalized Post algebras. *Bulletin de l'Académie Polonaise des Sciences, Série des Sciences Mathématique, Astronomie et Physique*, 17:483-86.

DYSON, VERENA HUBER, Assistant Professor**Books****With K. W. Roggenkamp**

Lattices over orders. Springer-Verlag, Berlin-Heidelberg-New York, 290 pp.

Articles

On the decision problem for extensions of a decidable theory. *Fundamenta Mathematicae*, 64:7-40.

FONG, PAUL, Professor**Articles**

On a characterization of $G_2(9)$ and $D_4^*(9)$. In *Theory of finite groups*, ed. by Brauer and Sah, Benjamin, New York, pp. 25-29.

With W. J. Wong

A characterization of the finite simple groups $PSp(4,9)$, $G_2(9)$, $D_4^*(9)$. *I. Nagoya Mathematical Journal*, 36:143-84.

FOULSER, DAVID A., Associate Professor**Articles**

Collineation groups of generalized André planes. *Canadian Journal of Mathematics*, 21:358-69.

Solvable primitive permutation groups of low rank. *Transactions of American Mathematical Society*, 143:1-54.

FRANK, EVELYN, Professor**Articles**

Continued fraction expansions for imaginary quadratic surds. *Mathematische Annalen*, 181:74-80.

Continued fraction expansions with rational elements for binomial quadratic surds. *Revista da Faculdade de Ciências de Lisboa (2) A*, 12:145-60.

Computer use in continued fraction expansions. *Mathematics of Computation*, 23: 429-35.

Reviews

On T-fractions of functions holomorphic and bounded in a circular disc. By H. Waadland. *Zentralblatt für Mathematik*, 164:377.

HANSON, FLOYD B., Assistant Professor**Articles**

The structure of distribution function for molecular interactions of infinite range I. *Rarefied gas dynamics, sixth symposium*, ed. by Trilling and Wachman, Academic Press, New York, pp. 81-84.

With T. F. Morse, L. Sirovich

A kinetic description of propagation of plane sound waves in a diatomic gas. *Physics of Fluids*, 12, 1:84.

With T. F. Morse

Free molecule expansion polynomials and sound propagation in rarefied gases. *Ibid.*, 8:1564.

HARRIS, MORTON E., Assistant Professor**Articles**

Generalized group cohomology. *Fundamenta Mathematicae*, 65:269-88.

HAY, LOUISE, Associate Professor**Articles**

Index sets of finite classes of recursively enumerable sets. *Journal of Symbolic Logic*, 34, 1:39-44.

KANTOROVITZ, SHMUEL, Associate Professor**Articles**

The C^k -classification of certain operators in L_p , II. *Transactions of the American Mathematical Society*, 146:922-26.

LANDIN, JOSEPH, Professor and Head of Department**Books**

An introduction to algebraic structures. Allyn and Bacon, Boston, 245 pp.

LARSON, RICHARD G., Assistant Professor**Articles**

The order of the antipode of a Hopf algebra. *Proceedings of the American Mathematical Society*, 21, 1:167-70.

With M. E. Sweedler

An associative orthogonal bilinear form for Hopf algebras. *American Journal of Mathematics*, 91, 1:75-94.

LEWIS, JEFF E., Assistant Professor

Articles

A poisson integral formula for solutions of parabolic partial differential equations. *Journal of Mathematical Analysis and Applications*, 26, 3:479-511.

MUNKHOLM, HANS J., Visiting Assistant Professor

Articles

Borsuk-Ulam type theorems for proper z_p -actions on (mod p homology) n -spheres. *Mathematica Scandinavica*, 24, 167:85.

NEČAS, JINDŘICH, Visiting Professor

Articles

Les équations elliptiques non linéaires. *Czechoslovak Mathematical Journal*, 19: 252-74.

Sur l'alternative de Fredholm pour les opérateurs non-linéaires avec applications aux problèmes aux limites. *Annali della Scuola Normale Superiore di Pisa*, 23, 2:331-45.

PATHAK, PRAMOD K., Associate Professor

Articles

With M. L. Eaton

A characterization of the normal law on Hilbert space. *Sankhyā A*, 31:259-68.

With P. R. Krishnrajah

A note on a confidence bound for certain ratios of characteristic roots of covariance matrices. *The Australian Journal of Statistics*, 10:116-19.

SANDLER, RUBEN, Professor

Articles

On free extensions of rank 1. *Mathematische Zeitschrift*, 111:233-48.

On some questions of O. Iden. *Ibid.*, pp. 255-56.

On finite collineation groups of F_8 . *Canadian Journal of Mathematics*, 21:217-21.

SOARE, ROBERT I., Assistant Professor

Articles

Sets with no subset of higher degree. *Journal of Symbolic Logic*, 34, 1:53-56.

Constructive order types on cuts. *Ibid.*, 2: 285-89.

A note on degrees of subsets. *Ibid.*, p. 256.

Recursion theory and Dedekind cuts. *Transactions of the American Mathematical Society*, 140:271-94.

Cohesive sets and recursively enumerable Dedekind cuts. *Pacific Journal of Mathematics*, 31, 1:215-31.

STONE, ALEXANDER P., Associate Professor

Articles

With D. E. Blair

A note on the holonomy group of manifolds with certain structures. *Proceedings of the American Mathematical Society*, 21, 1: 73-76.

PHILOSOPHY

BARTKY, SANDRA L., Assistant Professor

Articles

Heidegger's philosophy of art. *British Journal of Aesthetics*, 9:353-71.

DICKIE, GEORGE T., Professor

Articles

Defining art. *American Philosophical Quarterly*, 6:253-56.

EATON, MARCIA, Assistant Professor

Articles

Art, artefacts, and intentions. *American Philosophical Quarterly*, 6:165-69.

LEVISON, ARNOLD B., Professor

Articles

With I. Thalberg

Causal and essential explanations of action. *Mind*, 77, 309:400-08.

PARSONS, TERENCE D., Associate Professor

Articles

Essentialism and quantified modal logic. *Philosophical Review*, 77:35-52.

THALBERG, IRVING, Professor

Articles

With A. B. Levison

Causal and essential explanations of action. *Mind*, 77, 309:400-08.

Austin on abilities. In *Symposium on Austin*, ed. by K. T. Fann, Routledge-Kegan-Paul, London, pp. 182-204.

Other times, other places, other minds. *Philosophical Studies*, 20, 1-2:23-29.

In defense of justified true belief. *The Journal of Philosophy*, 66, 22:794-803.

WELLS, DONALD A., Professor and

Chairman of Department

Articles

How much can the "just war" justify? *The Journal of Philosophy*, 66, 21:819-29.

ZIFF, RITA NOLAN, Assistant Professor

Articles

Truth and sentences. *Mind*, 77, 312:501-11.

PHYSICAL EDUCATION FOR MEN

FORDHAM, SHELDON L., Professor

Articles

Seventy-third annual NCPEAM convention. *The Physical Educator*, 27, 1:25-26.

KRISTUFEK, CHARLES J., Associate Professor

Articles

The use of limited and off-campus facilities for college physical programs. In *National college physical education association for men, 72nd Proceedings*, Minneapolis, Minnesota, pp. 32-36.

PENNY, WILLIAM J., Assistant Professor

Articles

Meaningful evolution in physical education. *The Physical Educator*, 26, 2:61-63.

With E. F. Zeigler

Generalizations about developing graduate programs in physical education. *Ibid.*, 28, 4:123-26.

ROETZHEIM, WILLIAM H., Assistant Professor

Articles

From the hub. *The Modern Gymnast Magazine*, 12, 8:21.

Middle east tour. *Ibid.*, 11, 11:10.

With T. Muszycko

Gymnastic judging comes of age. *Ibid.*, 12: 26.

ROTHERMEL, BRADLEY L., Assistant Professor

Articles

The effects of a season of baseball training and competition and detraining on selected cardiovascular measurements. *Illinois Journal of Health, Physical Education and Recreation*, Winter, pp. 23.

PHYSICAL EDUCATION FOR WOMEN

KNEER, MARIAN E., Assistant Professor

Articles

With C. A. McCord

Softball examination. W. C. Brown Publishers, Dubuque, Iowa, 10 pp.

McCALEB, JANICE D., Instructor

Articles

Ballet for the gymnasium. *Journal for Health, Physical Education and Recreation*, 8:79-81.

PHYSICS

ANDERSON, WILLIAM R., Associate Professor

Articles

With I. B. Bertman

Further studies on fluorescence polarization. *Argonne National Laboratory, Radiological Physics Division Annual Report*, July 1968-June 1969, ANL-7615.

BERNSTEIN, SEYMOUR, Professor

Articles

With T. F. Hoang, D. P. Eartly, J. J. Phelan, A. Roberts, and others

Investigation of $\pi^-p \rightarrow K_1^0 K_1^0 n$ at 4 and 5 GeV/c. *Physical Review*, 184:1363-74.

BODMER, ARNOLD R., Professor

Books Edited

With L. G. Hyman

Proceedings of the International Conference on Hypernuclear Physics, Argonne National Laboratory Report, Two Volumes 953 pages.

Articles

With D. M. Rote

A-particle Binding in Nuclear Matter. In *Proceedings of the international conference on hypernuclear physics*, Argonne National Laboratory Report 1969, pp. 521-94.

CARHART, RICHARD A., Assistant Professor

Articles

With S. O. Aks

Asymptotic behavior and operator mass renormalization in the ϕ^4 model. *Nuovo Cimento*, 64A: 798-810.

GARLAND, JAMES W., JR., Associate Professor

Articles

With K. H. Bennemann, F. M. Mueller

Nature of the magnetic order in superconducting dilute rare earth alloys. *Physical Review Letters*, 23, 4:169-73.

Theory for the giant susceptibilities of dilute magnetic alloys. *Ibid.*, 26:1503-07.

With P. Allen

Generalized McMillan Equation. *Proceedings of the Third International Conference on the Science of Superconductivity*, September. Mechanisms for superconductivity. *Proceedings of First Superconducting Symposia*, Naval Research Laboratory Report #6962, pp. 32-55.

Bulletins and Technical Reports

With F. M. Mueller, M. H. Cohen,

K. H. Bennemann

The quad scheme: a new method for phase space integration. *AEC Research and Development Report*, Argonne National Laboratory Report #7556, 39 pp.

GOLDBERG, HOWARD S., Assistant Professor

Articles

With D. A. Jensen, S. H. Aronson, R. D. Ehrlich, D. Fryberger, and others

Measurement of the relative phase of $K_L \rightarrow \pi^+ \pi^-$ and $K_S \rightarrow \pi^+ \pi^-$ decay amplitudes by "vacuum regeneration." *Physical Review Letters*, 23, 11:615-19.

KRIEGER, STEPHAN J., Assistant Professor

Books

Hartree-Fock calculations of the even-even $N=Z$ nuclei. In *Contributions international conference on properties of nuclear states*, University of Montreal Press, p. 242.

Articles

Is the structure of ^{16}O understood? *Physical Review Letters*, 22:97-99.

KUCHNIR, FRANCA T., Visiting Assistant Professor

Articles

With L. Meyer-Schützmeister, D. S. Gemmel, R. E. Holland, H. Ohnuma, N. G. Puttaswamy

Study of the $Al^{27} (He^3, p) Si^{29}$ and $Al^{27} (He^3, p) Si^{29}$ reactions. *Physical Review*, 187: 1210.

With G. Hardie, R. E. Holland, L. Meyer-Schützmeister, H. Ohnuma

Energy levels in ^{32}P . *Nuclear Physics*, A134:673.

Bulletins and Technical Reports

With A. J. Elwyn, J. E. Monahan, A. Langsdorf Jr., F. P. Mooring

Small-angle scattering of neutrons. *Argonne National Laboratory Report*, #7620, p. 37.

With G. Hardie, R. E. Holland,

L. M. Schützmeister, N. G. Puttaswamy, H. Ohnuma

The $Si^{30}(\alpha, p) P^{33}$ Reaction. *Argonne National Laboratory Report* #7620, p. 60.

MARGULIES, SEYMOUR, Associate Professor

Articles

With T. F. Hoang, D. P. Eartly, J. J. Phelan, A. Roberts, and others

Investigation of $\pi^-p \rightarrow K_1^0 K_1^0 n$ at 4 and 5 GeV/c. *Physical Review*, 184:1363-74.

With D. W. McLeod, J. J. Phelan

What is the nature of the $^{16}O P=0^+ \rightarrow 0^+ K_1^0 K_1^0$ threshold enhancement? *Nuovo Cimento*, 63A:1124-30.

McLEOD, DONALD W., Assistant Professor

Articles

With T. F. Hoang, D. P. Eartly, J. J. Phelan, A. Roberts, and others

Investigation of $\pi^-p \rightarrow K_1^0 K_1^0 n$ at 4 and 5 GeV/c. *Physical Review*, 184:1363-74.

With S. Margulies, J. J. Phelan

What is the nature of the $I^0 J^P = 0^+ 0^+$ $K_1^0 K_1^0$ threshold enhancement? *Nuovo Cimento*, 63A:1124-30.

Missing mass and spark chambers. *Nuclear Instruments and Methods*, 72:333-39.

SCHREIBER, DAVID S., Associate Professor

Articles

With L. Shen, A. J. Arko

Low temperature resistivity in a giant moment alloy. *Physical Review*, 179:512-14.

Magneto-resistivity of a dilute Pt: Co Alloy. *Journal of Applied Physics*, 40:1478-79.

With L. Shen, J. P. Kopp

Engaged Korringa-like relaxation in strongly paramagnetic rare earth-hydrogen alloys. *Physics Letters*, 29A:438-39.

With E. D. Von Meerwall

Knight shifts of V^{51} and Mn^{55} in vanadium-manganese alloys. *Physics Letters*, 28A:495-96.

Bulletins and Technical Reports

NMR in rare earth-hydrogen systems, *Proceedings of International Symposium on Electron and Nuclear Magnetic Resonance*, Melbourne, Australia, p. B12.

With E. Von Meerwall

NMR investigation of the vanadium-manganese alloys. *Bulletin of American Physical Society*, 14:64.

SHARMA, RAM R., Associate Professor

Articles

Crystal fields in the interpretation of Spin-Hamiltonian of 6S ions. *Canadian Journal of Physics*, 47:1185.

SOLOMON, JULIUS, Assistant Professor

Articles

With D. A. Jensen, S. H. Aronson,

R. D. Ehrlich, D. Fryberger, and others

Measurement of the relative phase of $K_L \rightarrow \pi^+ \pi^-$ and $K_S \rightarrow \pi^+ \pi^-$ decay amplitudes by vacuum regeneration. *Physical Review Letters*, 23:11:615-19.

VARGA, BENDEGUZ B., Assistant Professor

Articles

With S. G. Eckstein

The definition of the velocity field in many body systems. *Physics Letters*, 29A:610-11.

POLITICAL SCIENCE

BALCH, GEORGE I., Instructor

Books Edited

With L. N. Rieselbach

Psychology and politics: an introductory reader. Holt, Rinehart, and Winston, Inc., New York, 305 pp.

BARKER, TWILEY W., Professor

Books

With L. J. Barker

Issues for the Illinois Constitutional Convention: the guarantee of civil rights. Constitutional Research Group, Springfield, Illinois, 21 pp.

GOODALL, LEONARD E., Associate

Professor

Books

Structure and operations of Illinois local

government. State Commission on local Government, Springfield, Illinois, 113 pp.

GRABER, DORIS A., Associate Professor

Articles

Perceptions of Middle East conflict in the UN, 1953-1965. *Journal of Conflict Resolution*, 13:454-84.

Reviews

The common aid effort, by Milton J. Esman and Daniel S. Cheever. *Political Science Quarterly*, 84:162-63.

JOHNSON, RICHARD M., Professor and

Head of Department

Articles

With E. F. Cataldo, L. A. Kellstedt

Political attitudes of urban blacks and whites: some implications for policy-makers. In *American politics: research and readings*, ed. by Monsma and Van Der Slik, Holt, Rinehart, and Winston, Inc., New York, pp. 47-67.

KELLSTEDT, LYMAN A., Associate

Professor

Articles

With E. F. Cataldo, R. M. Johnson

Political attitudes of urban blacks and whites: some implications for policy-makers. In *American politics: research and readings*, ed. by Monsma and Van Der Slik, Holt, Rinehart, and Winston, Inc., New York, pp. 47-67.

Reviews

Participation of the poor: comparative community case studies in the war on poverty, by Ralph M. Kramer. *The American Political Science Review*, 63, 4:1321-22.

KOH, BYUNG C., Associate Professor

Books

The foreign policy of North Korea. Frederick A. Praeger, Inc., New York, 237 pp.

Articles

Development administration in South Korea. In *Studies on the developmental aspects of Korea*, ed. by Andrew C. Nahm, Western Michigan University, Kalamazoo, Michigan, pp. 2-12.

North Korea: profile of a garrison state. *Problems of Communism*, 18, 1:18-27.

North Korea and the Sino-Soviet schism. *Western Political Quarterly*, 22, 4:940-62.

The Pueblo incident in perspective. *Asian Survey*, 9, 4:264-80.

Reviews

The Supreme Court and administrative agencies, by Martin Shapiro. *Social Science Quarterly*, 49, 4:945-46.

MURRAY, MICHAEL A., Assistant Professor

Books

Establishing a department of community affairs in Illinois. Institute of Government and Public Affairs, University of Illinois, Urbana, Illinois, 25 pp.

SIMPSON, DICK W., Assistant Professor

Articles

The generation gap in two provincial Sierra Leonean towns. *Pan-African Journal*, 2, 1:15-25.

TACHAU, FRANK, Associate Professor

Reviews

The precarious republic: political moderniza-

tion in Lebanon, by Michael C. Hudson. *Choice*, 6, 4:574.

The origins of communism in Turkey, by George S. Harris. *The American Science Review*, 63, 1:234-36.

PSYCHOLOGY

ASH, PHILIP, Professor

Articles

Comment. Legal implications of the use of standardized ability tests in employment and education. *Columbia Law Review*, 69, 4:615-18.

With L. Wispé, J. Awkard, M. Hoffman, L. H. Hicks, Jan Porter

The Negro psychologist in America. *American Psychologist*, 24, 2:142-50.

Survey of fee requirements of state boards. *American Association of State Psychology Boards Newsletter*, 6, 1:3.

BENTON, ALAN A., Assistant Professor

Articles

With E. R. Gelber, H. H. Kelley, B. A. Liebling

Reactions to various degrees of deceit in a mixed-motive relationship. *Journal of Personality and Social Psychology*, 12, 2:170-80.

BERKSON, GERSHON, B., Associate Professor

Articles

With V. Chaicumpa

Breeding gibbons *hylobates larentelloides* in the laboratory. *Laboratory Animal Care*, 19, 6:808-11.

CARTWRIGHT, ROSALIND D., Professor

Book Reviews

Progress in clinical psychology, ed. by L. Art and B. Reiss. *Archives of General Psychiatry*, 21:763-64.

Articles

Dreams as compared to other forms of fantasy. In *Dream psychology and the new biology of dreaming*, ed. by M. Kramer, Charles Thomas Publishing Co., Springfield, Illinois, pp. 361-72.

Dreams, reality and fantasy. In *The meaning of dreams: recent insights from the laboratory*, ed. by J. Fisher and L. Breger, State of California Department of Mental Hygiene Bureau of Research Symposium, 3: 101-19.

With D. Williams

Blood pressure changes during EEG monitored sleep: a comparative study of hypertensive and normotensive negro women. *Archives of General Psychiatry*, 20:307-14.

With N. Bernick, G. Borowitz, A. Kling

The effects of an erotic movie on the sleep and dreams of young men. *Archives of General Psychiatry*, 20:261-71.

DAVIS, JOHN D., Professor

Articles

Calculation of the degree of blood mixing by the Davis and Miller transfusion technique. *Physiology and Behavior*, 4:1035-37.

With R. J. Gallagher, R. L. Ladove, A. J. Turausky.

Inhibition of food intake by a humoral factor. *Journal of Comparative and Physiological Psychology*, 67:407-14.

DOMINOWSKI, ROGER L., Associate Professor

Articles

The effect of pronunciation practice on anagram difficulty. *Psychonomic Science*, 16: 99-100.

Concept attainment as a function of instance contiguity and number of irrelevant dimensions. *Journal of Experimental Psychology*, 82:573-74.

ERON, LEONARD D., Professor

Books Edited

With R. Callahan

The relation of theory to practice in psychotherapy. Aldine Press, Chicago, 176 pp.

Articles

With R. Callahan

Overview. In *The relation of theory to practice in psychotherapy*, ed. by Eron and Callahan, Aldine Press, Chicago, pp. 147-72.

FREEDMAN, PHILIP E., Assistant Professor

Articles

With A. J. Rosen

The effects of psychotropic drugs on the double alley frustration effect. *Psychopharmacologia*, 15, Berlin, pp. 39-47.

GRUDER, C. L., Assistant Professor

Articles

With J. Thibaut

Formation of contractual agreements between parties of unequal power. *Journal of Personality and Social Psychology*, 11, 1:59-65.

With L. Wheeler, K. G. Shaver, R. A. Jones, G. R. Goethals, and others

Factors determining the choice of a comparison other. *Journal of Experimental Social Psychology*, 5, 2:219-32.

KENT, ERNEST W., Instructor

Articles

With S. P. Grossman

Evidence for a conflict interpretation of anomalous effects of rewarding brain stimulation. *Journal of Comparative and Physiological Psychology*, 69, 2:381-90.

PETERSON, ROLF A., Assistant Professor

Articles

With R. L. D. Wright, C. C. Hanlon

The effects of extending the CS-UCS interval on the effectiveness of the conditioning treatment for nocturnal enuresis. *Behavior Research and Therapy*, 7:351-57.

ROSEN, ALEXANDER J., Assistant Professor

Articles

Post reinforcement synchronization: quantitative analysis of amphetamine effects. *Psychonomic Science*, 15:113-14.

With P. E. Freedman

The effects of psychotropic drugs on the double alley frustration effect. *Psychopharmacologia*, 15:39-47.

With J. Buga

Effects of brain serotonin manipulations on multiple schedule performance in the rat. *Archives Internationales de Pharmacodynamie et de Therapie*, 180:299-308.

ROSENBERG, SHELDON, Professor

Articles

Associative facilitation in the recall and

recognition of nouns embedded in connected discourse. *Journal of Experimental Psychology*, 78:254-60.

Association and phrase structure in sentence recall. *Journal of Verbal Learning and Verbal Behavior*, 7:1077-81.

The recall of verbal material accompanying semantically well integrated and semantically poorly integrated sentences. *Ibid.*, 8: 732-36.

STENSON, HERBERT H., Assistant Professor
Articles

With R. L. Knoll

Goodness of fit for random rankings in Kruskal's nonmetric scaling procedure. *Psychological Bulletin*, 71:122-26.

UPSHAW, HARRY S., Professor and Head of Department
Articles

Stimulus range and the judgmental unit. *Journal of Experimental Social Psychology*, 5:1-11.

With L. A. Yates

Self-persuasion, social approval, and task success as determinants of self-esteem following impression management. *Journal of Experimental Social Psychology*, 4:143-52.

WYER, ROBERT S., JR., Associate Professor
Articles

Effects of general response style on own attitude and the interpretation of attitude-relevant messages. *British Journal of Social and Clinical Psychology*, 8:104-15.

With Sandra Schwartz

Some contingencies in the effects of the source of a communication upon the evaluation of that communication. *Journal of Personality and Social Psychology*, 11:1-9.

With S. F. Watson

Context effects in impression formation. *Ibid.*, 12:22-33.

The prediction of behavior in two-person games. *Ibid.*, 13:222-38.

A quantitative comparison of three models of impression formation. *Journal of Experimental Research in Personality*, 4:29-41.

QUANTITATIVE METHODS

WADYCKI, WALTER J., Instructor
Reviews

Economic statistics and econometrics: an introduction to quantitative economics, by Edward J. Kane. *Review of Social Economy*, 27:253-54.

SLAVIC LANGUAGES AND LITERATURES

MORAVCEVICH, NICHOLAS, Associate Professor and Head of Department
Articles

Gorky and the western naturalists: anatomy of a misalliance. *Comparative Literature*, 21, 1:63-75.

Reviews

The Chornovil papers, by Vyacheslav Chornovil. *Book Week*, Chicago *Sun-Times*, March 16, p. 3.

The seventh night, by Ladislav Mačko. *Ibid.*, May 18, p. 9.

The joke, by Milan Kundera. *Ibid.*, October 26, p. 4.

PRIBIC, ELIZABETH, Associate Professor
Articles

Narcis. *Kindlers Literature Lexikon*, 5:238-39.

Námestie v Mähringu. *Ibid.*, pp. 211-12.

Návrat do paríža. *Ibid.*, p. 319.

Na rozhraní. *Ibid.*, pp. 247-48.

Námestie Svätej Alžbety. *Ibid.*, pp. 210-11.

Neprebudený. *Ibid.*, p. 385.

Nevesta hól'. *Ibid.*, p. 419.

Nylonový mesiac. *Ibid.*, p. 719.

Odlomená haluz. *Ibid.*, pp. 806-07.

Osmakorené reportáže. *Ibid.*, pp. 969-70.

Patrím k vám. *Ibid.*, pp. 1544-45.

Polnočná omša. *Ibid.*, pp. 2304-05.

Reviews

Korespondencija Jána Hollého, edited by Jozef Ambruš. *Südost-Forschungen*, 28: 342.

SOCIAL WORK

JOHNSON, JOY D., Assistant Professor
Reviews

The use of small groups in training, by Gosting, Miller and Woodhouse. *Social Service Review*, 43, 2:231.

TREGER, HARVEY, Assistant Professor
Articles

With Shirley Treger

Use of the small group in vocational rehabilitation of the disabled poor. *Journal of Rehabilitation*, 34, 5:22-25.

Reviews

The field of social work, by Arthur E. Fink, C. Wilson Anderson and Merrill B. Conover. *Federal Probation*, 34, 1:62.

WEINGARTEN, SAMUEL, Associate Professor
Articles

Establishing a community mental health center. *Illinois Pharmacist*, 33, 10:502-04.

Community organization for mental health. In *Progress report, division of planning and evaluation services, state of Illinois, Department of Mental Health*, January 1, 1968-June 30, 1969, pp. 108-24; 149-51; 158-73.

WILLE, JANE, Professor
Articles

Problems of communication with teachers in school. In *Social work in schools: patterns and perspectives*, ed. by J. J. Alderson, Whitehall Co., Northbrook, Illinois, pp. 77-82.

Changes in the school as a setting for the practice of social work. *Ibid.*, pp. 104-17.

With J. J. Alderson

Traditional, current and emerging trends in social work practice in the schools. *Ibid.*, pp. 3-27.

SOCIOLOGY

BUCHER, MARY RUE, Associate Professor
Articles

With Joan Stelling

Characteristics of professional organizations. *Journal of Health and Social Behavior*, 10, 1:3-15.

With Joan Stelling, P. Dommermuth

Implications of prior socialization for residency programs in psychiatry. *Archives of General Psychiatry*, 20:395-402.

Differential prior socialization: a comparison of four professional training programs. *Social Forces*, 48, 2:213-23.

CAREY, JAMES T., Associate Professor

Articles

Changing courtship patterns in the popular song. *American Journal of Sociology*, 74, 6:720-31.

The ideology of autonomy in popular lyrics: a content analysis. *Psychiatry*, 32, 2:150-65.

EDWARDS, OZZIE L., Assistant Professor

Articles

A critical look at population control problems. In *Birth control and the Christian*, ed. by Spitzer and Saylor, Tyndale House Publishers, Wheaton, Illinois, pp. 532-41.

JOHNSTONE, JOHN W. C., Associate Professor

Books

Young people's images of Canadian society. The Queen's Printer, Ottawa, 152 pp.

LITTLE, ROGER W., Professor

Books Edited

Selective service and American society. Russell Sage Foundation, New York, 220 pp.

Articles

Procurement of manpower: an institutional analysis. In *Selective service and American society*, ed. by R. W. Little, Russell Sage Foundation, New York, pp. 1-34.

Convergence of the civilian and military occupational structures. In *Manpower research*, ed. by N. A. B. Wilson, English Universities Press, London, pp. 442-48.

McCALL, GEORGE J., Associate Professor

Books

With J. L. Simmons

Issues in participant observation: a text and reader. Addison-Wesley, Reading, Massachusetts, 359 pp.

Articles

With R. J. Simon, E. Rosenthal

A selective evaluation of their university by Negro and white undergraduates. *Phylon*, 30:11-16.

Reviews

Power and discontent, by William A. Gamson. *Social Forces*, 48:116-17.

SHANAS, ETHEL, Professor

Articles

Living arrangements and housing of old people. In *Behavior and adaptation in late life*, ed. by Busse and Pfeiffer, Little, Brown and Co., Boston, pp. 129-49.

Sociological factors of aging significant to the clinician. *Journal of the American Geriatrics Society*, 17, 3:284-88.

The family and the aged in western societies. *Sociological Symposium*, 2:147-52.

TIFFT, LARRY L., Instructor

Articles

With D. J. Bordua

Police organization and future research. *Journal of Research in Crime and Delinquency*, 6, 2:167-76.

VANDER KOOI, RONALD C., Assistant Professor

Articles

The taxi-dance hall and some functional alternatives in changing urban America. In *The taxi-dance hall*, by Paul Cressey and Patterson Smith, (2nd ed.), Montclair, New Jersey, pp. xi-xxiv.

Reviews

The halfway house movement: a search for sanity, by Harold Raush and Charlotte Raush. *American Sociological Review*, 34: 143-45.

VANECKO, JAMES J., Instructor

Articles

Community mobilization and institutional change: the influence of the community action programs in large cities. *Social Science Quarterly*, 50, 3:609.

WILEY, MARY G., Assistant Professor

Articles

With E. A. Weinstein, W. DeVaughan

Obligation and the flow of deference in exchange. *Sociometry*, 32, 1:1-12.

SPANISH, ITALIAN, AND PORTUGUESE

BETORET-PARIS, EDUARDO., Associate Professor

Articles

El caso Blasco-Ibáñez. *Hispania*, 52:96-102.

SPEECH AND THEATRE

FRYMIRE, LAWRENCE T., Professor

Books

A Study of state educational television systems. Corporation for Public Broadcasting, Washington, D.C., 185 pp.

LOESCH, KATHARINE T., Assistant Professor

Articles

The shape of sound: configurational rime in the poetry of Dylan Thomas. *Speech Monographs*, 35, 4:407-22.

Empirical studies in oral interpretation. *Western Speech*, 33, 4:250-68.

A Response to Professor Becker's critique. *Ibid.*, pp. 279-82.

Reviews

George Hebert's lyrics, by Arnold Stein. *Quarterly Journal of Speech*, 55, 1:93-94.

PITT, CARL A., Professor

Articles

Mr. Speaker: a study in ethos. *Pacific Speech*, 3, 2:36-41.

Reviews

Meeting management, by Henry L. Ewbank, Jr. *Speech Teacher*, 18:75.

SCHMITT, NATALIE, Assistant Professor

Articles

Impassioned art: an interpretation of "Tonight We Improvise" by Luigi Pirandello. *Western Speech*, 33, 3:184-91.

Was there a medieval theatre in the round?: a re-examination of the evidence. *Theatre Notebook*, 23, 4:130-42; 24, 1:18-25.

SKORNIA, HARRY J., Professor

Articles

What TV is doing to America: some unexpected consequences. *The Journal of Aesthetic Education*, Special issue: film, new media, and aesthetic education, 3, 3:29-44.

Some lessons from Samoa. *Audiovisual Instruction*, 14, 3:55-58.

Reviews

Living-room war: writings about television, by Michael J. Arlen. *Educational Television Magazine*, 1, 6:31.

Living-room war: writings about television, by Michael J. Arlen. *Journalism Quarterly*, 46, 3:647-48.

Communication and comprehension, by J. M. Trenaman. *Educational Forum*, 33, 4: 548-49.

The golden web: a history of broadcasting in the United States, vol. II: 1933 to 1953, by Erik Barnouw. *Columbia Journalism Review*, 8, 1:42-43.

WOOD, BARBARA S., Assistant Professor

Articles

With Beverly Lusty

Effects of an NDEA institute upon attitudes of inner-city elementary teachers. *The Speech Teacher*, 18, 3:217-22.

With Julia Curry

The everyday talk and school talk of the city black child. *The Speech Teacher*, 18, 4: 282-96.

STUDENT COUNSELING SERVICE

BAER, JEAN H., Professor

Articles

Future research trends. In *The vocational expert in the social security disability program*, ed. by Feingold, S. Norman, Charles C. Thomas Publishing Co., Springfield, Illinois, pp. 71-77.

CARSELLO, CARMEN J., Instructor

Reviews

Reading and remedial reading, by A. C. Tansley. *Illinois Schools Journal*, 49:1.

Predicting reading failure by Katrina de Hirsch, Jeannette Jefferson Jansky, and William S. Langford. *Illinois Schools Journal*, Summer, 49:2.

CARTWRIGHT, ROSALIND D., Professor

See Psychology.

CREASER, JAMES W., Assistant Professor

Articles

With E. B. Little

Deriving a personality characteristic from test-taking behavior. *Psychological Reports*, 25:877-78.

SHERIDAN, EDWARD P., Assistant Professor

Articles

With F. J. Kobler

The Loyola seminarian sentence completion test. *Journal of Projective Techniques and Personality Assessment*, 33, 6:507-12.

WHITMAN, MYRON A., Assistant Professor

Bulletins and Technical Reports

Learning and distractibility in normals and retardates. *American Institute for Mental*

Studies, Training School Bulletin, 65, 3: 89-101.

WOLF, THETA H., Counselor and Lecturer

Articles

The emergence of Binet's conception and measurement of intelligence: a case history of the creative process. *Journal of the History of the Behavioral Sciences*, 5, 2:113-34, 3:207-37.

SYSTEMS ENGINEERING

AGARWAL, GYAN C., Associate Professor

Books Edited

With L. Stark

Biomaterials. Plenum Press, New York, 284 pp.

Articles

With L. Stark

Biomaterials: a summary of research and training and some identifiable goals. *Ibid.*, pp. 251-65.

Research and training in biomaterials. *Science*, 163:100.

With B. Berman, L. Stark

A lumped parameter model of the cerebrospinal fluid system. *IEEE Transactions on Biomedical Engineering*, BME-16, 1:45-53.

With G. L. Gottlieb

Music spindle models: multiple input-multiple output simulations. *Proceedings of the Eighth International Conference on Medical and Biological Engineering*, pp. 6-9.

Analysis of step tracking in normal human subjects. *IEEE Transactions on Man-Machine Systems*, MMS-10, 4:132-37.

With G. L. Gottlieb, L. Stark

Stretch receptor models: single efferent, single afferent innervation. *IEEE Transactions on Man-Machine Systems*, MMS-10, 1:17-27.

LEHMAN, MELVIN, Assistant Professor

Articles

On criteria for assigning models to assembly lines. *The International Journal of Production Research*, 7, 4:269-85.

Sequence delay in mixed model assembly. *American Society of Tool and Manufacturing Engineers*, MS69:284.

What's going on in product assembly. *Industrial Engineering*, 1, 4:41-45.

With N. T. Thompoulos

The mixed model learning curve. *AIIE Transactions—Industrial Engineering Research and Development*, 1, 2:127-32.

MOSILLO, FRANCIS A., Assistant Professor

Books

With L. N. Blair, H. A. Setton

Problems in engineering graphics and design. Stipes Publishing Co., Champaign, Illinois, 93 pp.

O'NEILL, WILLIAM D., Associate Professor

Articles

An interacting control systems analysis of the human lens accommodative controller. *Automatica*, 5:645-54.

With J. S. Brodkey

Linear regression of lens movement with refractive state. *American Medical Association Archives of Ophthalmology*, 82:795-99.

With C. K. Sanathanan, J. S. Brodkey

A minimum variance, time-optimal control system model of human lens accommodation. *IEEE Transactions on Systems Science and Cybernetics*, SSC-5, 4:290-99.

With M. Ejiri, H. Thompson

The dynamic visco-elastic properties of the lens. *Vision Research*, 9:233-44.

WACHS, MARTIN, Assistant Professor

Articles

The role of citizen's opinions in urban transportation planning. In *Defining transporta-*

tion requirements, American Society of Mechanical Engineers, New York, pp. 205-14.

A dynamic model of vehicle system availability. In *Transactions of the fifteenth conference of Army mathematicians*, Army Research Office, Durham, North Carolina, pp. 403-25.

With J. L. Schofer

Abstract values and concrete highways: a discussion of goals and objectives and their role in the evaluation of transportation plans. *Traffic Quarterly*, 23, 1:133-56.

CHICAGO MEDICAL CENTER

ANATOMY

BOLT, JOHN R., Assistant Professor

Articles

Lissamphibian origins: possible protolissamphibian from the Lower Permian of Oklahoma. *Science*, 166:888-91.

DUBRUL, E. LLOYD, Professor and Head of Oral Anatomy

See Oral Anatomy.

KERNIS, MARTEN M., Assistant Professor

Articles

With E. M. Johnson

Effects of trypan blue and niagara 2B on the *in vitro* absorption of ions by rat visceral yolk sac. *Journal of Embryology and Experimental Morphology*, 22, 1:115-25.

LARRAMENDI, L. M. H., Professor

Articles

Studies on cerebellar synaptogenesis. In *Neurobiology of cerebellar evolution and development*, ed. by R. Llinas, American Medical Association, Chicago, pp. 803-43.

Morphology and distribution of inhibitory cerebellar synapses. In *Proceedings of the Fourth International Congress on Pharmacology in Basel, Switzerland*, Schwabe & Co., Basel, pp. 1-9.

With H. Dekirmenjian, E. G. Brunngraber, N. Johnston

Distribution of gangliosides, glycoprotein-NANA and acetylcholinesterase in axonal and synaptosomal fractions of cat cerebellum. *Experimental Brain Research*, 8, 97:104-69.

LA VELLE, ARTHUR, Professor

Articles

With P. J. Van Alten

Antigenic changes in the developing brain of the hamster. *Experimental Neurology*, 25: 177-89.

MACRAE, EDITH K., Professor

Articles

With Susan L. Rose

Planarian regeneration. *The American Biology Teacher*, 31, 3:168-73.

REYNOLDS, WYNETKA A., Associate Professor

Articles

With R. M. Pitkin, A. A. Hodari

Transfer of iodide into amniotic fluid by the normal and the nephrectomized sub-human primate fetus. *American Journal of Obstetrics and Gynecology*, 104:633-41.

With R. M. Pitkin

Insulin transfer across the hemochorial placenta. *Obstetrics and Gynecology*, 33: 626-34.

With R. C. Burchell, R. M. Pitkin

Late effects of iliac ligation in the rhesus monkey. *International Journal of Gynecology and Obstetrics*, 7:11-14.

With R. M. Pitkin, L. J. Filer

Cyclamate and cyclohexylamine: transfer across the hemochorial placenta. *Proceedings of the Society for Experimental Biology and Medicine*, 132:993-95.

Reviews

Metamorphosis, ed. by W. Etkin and L. Gilbert. *Science*, 163:63.

VAN ALTEN, PIERSON J., Associate Professor

Articles

With R. A. Good, H. J. Meuwissen

Antigen induced blastoid transformation in antibody deficient chickens. *Journal of Immunology*, 102:1079-83.

Decreased lymphoid cell multiplication in the postthymectomy state. *Transplantation*, 7: 1-11.

Short term culture of chicken lymphoid cells: conditions for culture and response to mitogenic stimulation. *International Archives Allergy and Applied Immunology*, 35: 381-91.

With M. D. Cooper, R. A. Good, H. J. Meuwissen

Dissociation of thymus and bursa function in the chicken by phytohemagglutinin. In *Proceedings of the third leucocyte culture conference*, ed. by Rieke, Appleton Century Crofts, New York, pp. 227-35.

With M. D. Cooper, W. A. Cain, R. A. Good

Development and function of immunoglobulin producing system. I. Effect of bursectomy at different stages of development on germinal centers, plasma cells, immunoglobulins and antibody production. *International Archives Allergy and Applied Immunology*, 35:242-52.

With W. A. Cain, M. D. Cooper, R. A. Good

Development and function of the immunoglobulin-producing system. II. Role of the bursa in the development of humoral immunological competence. *Journal of Immunology*, 102:671-78.

With A. La Velle

Antigenic changes in the developing brain of the hamster. *Experimental Neurology*, 22: 177-89.

ASSOCIATED MEDICAL SCIENCES

FIORELLA, BEVERLY J., Instructor, Curriculum in Medical Technology

Books Edited

With Others

Medical technology, a series. Cytogenetics, vol. 2, no. 1, 250 pp., Lea & Febiger, Philadelphia.

FRENCH, RUTH M., Assistant Professor and Director of Curriculum in Medical Technology

Books Edited

With Others

Medical technology, a series. Cytogenetics, vol. 2, no. 1, Lea & Febiger, Philadelphia, 250 pp.

Articles

The knowledge explosion and medical technology education. *American Journal of Medical Technology*, 35, 7:438-45.

HEINEMANN, RUTH I., Coordinator of Continuing Education

Articles

The college and university in medical technology education. *American Journal of Medical Technology*, 35, 8:491-501.

BIOLOGICAL CHEMISTRY

ARSENIS, CHARALAMPOS, Assistant Professor

Articles

With O. Touster

Nicotinamide adenine dinucleotide phosphate-

linked xylitol dehydrogenase in Guinea pig liver cytosol. *Journal of Biological Chemistry*, 244:3895.

BEZKOROVAINY, ANATOLY, Associate Professor

Articles

With R. Zschocke, D. Grohlich

Some physical-chemical properties of succinylated transferrin, conalbumin, and orosomucoid. *Biochimica et Biophysica Acta*, 181:295.

With D. Grohlich

Separation of the bovine colostrum M-1 glycoprotein into two components. *Biochemistry Journal*, 115:817.

BINKLEY, STEPHEN B., Professor and Head of Department

Articles

With M. A. Brostrom

Membrane alteration and the formation of metachromatic granules in *Escherichia coli* treated with p-fluorophenylalanine. *Journal of Bacteriology*, 98, 3:1263-70.

Synchronous growth of *Escherichia coli* after treatment with fluorophenylalanine. *Journal of Bacteriology*, 98, 3:1271-73.

CENTURY, BERNARD, Assistant Professor

Articles

Lipids affecting drug metabolism and cellular functions. In *Advances in experimental biology and medicine*, ed. by W. L. Holmes, L. A. Carlson and R. Paoletti, New York, pp. 629-38.

With W. H. Vogel, V. Orfei

Activities of enzymes involved in the formation and destruction of biogenic amines in various areas of human brain. *Journal of Pharmacology and Experimental Therapy*, 165:196-203.

With M. K. Horwitz

Effect of dietary lipid on chlorpromazine depression of ^{32}P labeling of rat brain phospholipids. *Life Sciences*, 8:215-23.

HANLON, MARY SUE, Associate Professor

Articles

Infra red studies on biopolymers and related models. In *Spectroscopic approaches to biomolecular conformation*, ed. by D. W. Urry, American Medical Association Press, Chicago, pp. 161-207.

HARRISON, WILLIAM H., Associate Professor

Articles

With W. Weiner, H. Klawans

L-Dopa and cerebrospinal fluid homovanillic acid in Parkinsonism. *Life Sciences*, 8, 1:971-76.

With R. M. Gray, T. DeCloux

Iron in commercial ATP preparations. *Biochimica et Biophysica Acta*, 192:525-27.

HAYASHI, JAMES A., Professor

Articles

With J. K. Pinter, A. N. Bahn

Carbohydrate hydrolases of oral streptococci. *Archives Oral Biology*, 14:735.

With D. T. Chionglo

Structural basis of group G streptococcal antigenicity. *Archives of Biochemistry and Biophysics*, 130:39.

With J. A. Watson, E. Schuytema, C. C. Doughty

Identification of reduced nicotinamide adenine dinucleotide phosphate-dependent aldehyde reductase in a *Rhodotorula* strain. *Journal of Bacteriology*, 100:110-16.

JEFFAY, HENRY, Professor

Articles

With Richard C. Nelson

Protein synthesis, microsomes, and polyribosomes in oral tissues. *Journal of Dental Research*, 48:857-62.

KATHAN, RALPH H., Associate Professor

Articles

With A. N. Lurvey, I. M. Rosenthal

Homovanillic acid content of neuroblastomas. *Proceedings of the Society for Experimental Biology and Medicine*, 130:972-75.

With I. M. Rosenthal, R. Greenberg, G. S. Falk, R. Wong

Catecholamine metabolism of a ganglioneuroma: correlation with electronmicrographs. *Pediatric Research*, 3:413-24.

With D. I. Weeks

Structure studies of collocalia mucoid. 1. Carbohydrate and amino acid composition. *Archives of Biochemistry and Biophysics*, 134:572-76.

With A. M. Adamany

Isolation of a tetrasaccharide common to MM, NN and MN antigens. *Biochemical and Biophysical Research Communications*, 37: 171-78.

Reviews

Blood, by Leo Vroman. *American Biology Teacher*, 31:113.

Biochemistry, by Abraham Mazur and Benjamin Harrow. *American Biology Teacher*, 31:468-470.

KUETTNER, KLAUS E., Assistant Professor

Articles

With L. Soble, R. Croxen, R. Eisenstein

Effect of egg white lysozyme on cartilage organ culture. *Federation Proceedings*, 28: 552.

With C. T. Brighton, R. D. Ray, L. W. Soble

In vitro epiphyseal plate growth in various oxygen tension. *Journal of Bone and Joint Surgery*, 51A:1383-96.

MILLNER, SEYMON N., Instructor

Articles

Apparatus for preparation of bacterial extracellular enzymes. *Applied Microbiology*, 17, 4:639-40.

With B. Massie

Detection of proteolytic enzymes after cellulose acetate electrophoresis. *Analytical Biochemistry*, 32, 1:154-57.

MOLNAR, JANOS, Assistant Professor

Articles

With M. Tetas, H. Chao

Subcellular site of glycoprotein synthesis in liver. *Biochemical and Biophysical Research Communications*, 37:684-90.

With G. Markovic, H. Chao, Z. Molnar

Glycoproteins of Ehrlich ascites carcinoma cells. Separation of plasma and endoplasmic reticular membrane fragments. *Archives of Biochemistry and Biophysics*, 134: 524-32.

With H. Chao, G. Markovic

Subcellular site of structural glycoprotein synthesis in Ehrlich ascites tumor. *Archives of Biochemistry and Biophysics*, 134: 533-38.

MYERS, TERRELL C., Professor

Articles

Implications of redistribution equilibria in reactions of biological importance. *Annals of the New York Academy of Sciences*, 159:221-23.

RAFELSON, MAX E., JR., Professor

Articles

With F. M. Booyse

Protein synthesis and platelet functions. In *Dynamics of thrombus formation and dissolution*, ed. by Shirley A. Johnson and M. Mason Guest, J. B. Lippincott, New York, pp. 149-71.

A contractile protein model for platelet aggregation. *Blood*, 33:100.

With F. M. Booyse, D. C. Hohn

Study of platelet abnormalities by density gradient separation of platelet populations. *South African Journal Laboratory and Clinical Medicine*, 43:964.

SCHUYTEMA, EUNICE C., Assistant Professor

Articles

With H. L. Glenn, C. C. Doughty

Relative rates of lysis of staphylococcal cell walls by lytic enzymes from various bacteriophage types. *Journal of Bacteriology*, 98:920-23.

With J. A. Watson, J. A. Hayashi, C. C. Doughty

Identification of reduced nicotinamide adenine dinucleotide phosphate-dependent aldehyde reductase in a Rhodotorula strain. *Journal of Bacteriology*, 100:110-16.

SIMON, R. GERALD, Assistant Professor

Articles

Phospholipids in metabolic response to cold exposure. *Transactions New Jersey Academy of Science, Symposia* 1969, pp. 65.

With G. Rouser, S. Fleischer, G. Nelson

Lipid composition of animal membranes, organelles and whole organs. In *Biological membranes*, ed. by D. Chapman, Academic Press, New York, pp. 5-69.

Use of DEAE and TEAE column chromatography in lipid research. In *Methods in enzymology*, ed. by J. M. Lowenstein, Academic Press, New York, 14:369-85.

With R. B. Hart, W. A. Joern

Rearrangements of 5-nitronorbornenes. II. 6-Phenyl- and 6-methyl-5-nitro-2-norbornenes. *Journal Organic Chemistry*, 34:2058.

With C. Baxter, G. Rouser

Variation among vertebrates of lung phospholipid class composition. *Lipids*, 4:243.

With R. Wade, J. DeLarco, M. L. Baker

Wallerian degeneration: a sequential process. *Journal of Neurochemistry*, 16:1435.

With G. Rouser, G. Kritchevsky

Species variation in phospholipid class distribution of organs. I. Kidney, liver and spleen. *Lipids*, 4:599.

With G. Rouser

Species variation in phospholipid class distribution of organs. II. Heart and skeletal muscle. *Ibid.*, p. 607.

TITCHENER, EDWARD B., Associate Professor

Articles

With K. Stern, A. Duwelius

Phagocytic activity in mice treated with isogenic subcellular fractions. *Life Sciences*, 8:821-30.

With C. L. Harris, A. L. Cline

Sulfur-deficient transfer ribonucleic acid in a cysteine-requiring "relaxed" mutant of *Escherichia coli*. *Journal of Bacteriology*, 100:1322-27.

VARY, JAMES C., Assistant Professor

Articles

Discussion of action and properties of spore germination enzymes. In *Spores IV*, ed. by L. L. Campbell, American Society for Microbiology, Ann Arbor, Michigan, pp. 287-88.

WEISSMANN, BERNARD, Professor

Articles

A colorimetric method for alpha-naphthol and its application to assay of hydrolases. *Analytical Biochemistry*, 28:295.

With D. F. Hinrichsen

Mammalian alpha-acetylgalactosaminidase. Occurrence, partial purification, and action on linkages in submaxillary mucins. *Biochemistry*, 8:2034.

With D. C. Cashman

The hyaluronidase of rat skin. *Archives of Biochemistry and Biophysics*, 135:387.

WITTING, LLOYD A., Assistant Professor

Articles

The oxidation of α -tocopherol during the autoxidation of ethyloleate, linoleate, linolenate and arachidonate. *Archives of Biochemistry and Biophysics*, 129:142-51.

Intermediary metabolism of vitamin E. *The biochemistry, assay and nutritional value of Vitamin E*, pp. 4-27.

The effect of antioxidant-deficiency on phospholipid composition in the chick brain. *Journal Neurochemistry*, 16:1253-56.

With A. H. Sakr

The effect of antioxidant-deficiency on tissue lipid composition in the chick. II. Brain gangliosides. *Biochimica et Biophysica Acta*, 176:889-91.

CRANIOFACIAL ANOMALIES

LAUTERSTEIN, AUBREY M., Associate Professor

Articles

With S. Pruzansky

Tooth anomalies in the oral-facial-digital syndrome. *Teratology*, 2:137-45.

PRUZANSKY, SAMUEL, Professor and Director of Center

Articles

Not all dwarfed mandibles are alike. *Birth Defects: Original Article Series*, 4, 2: 120-29.

With A. Lauterstein

Tooth anomalies in the oral-facial-digital syndrome. *Teratology*, 2:137-45.

With R. M. Mason

The "Stretch Factor" in soft palate function. *Journal of Dental Research*, 48, 5:972.

With L. H. Meskin

A malformation profile of facial cleft patients and their siblings. *Cleft Palate Journal*, 6: 309-15.

Reviews

Cleft palate: a multidiscipline approach, by Richard B. Stark. *Journal American Dental Association*, 70:583.

DENTAL ADMINISTRATION

MASSLER, MAURY, Associate Dean and Professor of Pedodontics
See Pedodontics.

McELROY, DONALD L., Associate Dean and Professor of Oral Diagnosis

Books

With W. F. Malone

Handbook of oral diagnosis and treatment planning. Williams & Wilkins Company, Baltimore, Maryland, 220 pp.

Articles

Replantations: a biological reaction. *Illinois Dental Journal*, 38, 10:630-35.

YALE, SEYMOUR H., Dean and Professor of Radiology

Articles

Radiographic evaluation of the temporomandibular joint. *The Journal of the American Dental Association*, 79, 1:102-07.

DENTAL HISTOLOGY

EISENMANN, DALE R., Assistant Professor

Articles

With J. A. Yaeger

Alterations in the formation of rat dentine and enamel induced by various ions. *Archives of Oral Biology*, 14:1045-64.

With W. F. Malone, J. Kusek

Interceptive periodontics with electrosurgery. *Journal of Prosthetic Dentistry*, 22:555-64.

KATELE, KAZIMIERAS V., Chief of Tissue Processing Laboratory

Articles

With V. E. James

Innervation of the developing hamster maxillary incisor. *Journal of Dental Research*, 48:361-65.

SABET, TAWFIK Y., Associate Professor

Articles

With C. Newlin, H. Friedman

Effects of RES "Blockade" on antibody formation, 1: suppressed cellular and humoral hemolysin responses in mice injected with carbon particles. *Immunology*, 16:433-46.

With H. Friedman

Effects of RES "Blockade" on antibody formation, 2: cytokinetics of the secondary hemolysin response and suppressed immunological "memory" in mice treated with carbon particles. *Immunology*, 17:535-50.

Immunologic "amnesia" of antibody-forming cells after RES blockade. *Proceedings of The Society of Experimental Biology and Medicine*, 131:1317-22.

SQUIER, CHRISTOPHER A., Associate Professor

Articles

A study of the dendritic cells in separated

sheets of oral epithelium in the rat. *Archives of Oral Biology*, 14:381-84.

With J. Lozdan

The histology of the muco-gingival junction. *Journal of Periodontal Research*, 4:83-93.

With J. P. Waterhouse

Measurements from electron micrographs of organelle size in relation to their shape: a refinement applied to the epidermal melanosome and basal lamella. *Journal of Microscopy*, 89:195-204.

WATERHOUSE, JOHN P., Professor and Acting Head of Department

See Oral Pathology.

DENTAL RADIOLOGY

KORT, WILLIAM B., Assistant Professor

Articles

Quantitation of absorbed dose produced at high and low potentials. *Oral Surgery, Oral Medicine and Oral Pathology*, 27, 3: 344-48.

YALE, SEYMOUR H., Professor and Dean

Articles

Radiographic evaluation of the temporomandibular joint. *The Journal of the American Dental Association*, 79, 1:102-07.

DERMATOLOGY

ALTMAN, ARTHUR T., Clinical Instructor

Articles

With L. M. Solomon

Percutaneous steroid absorption in anhidrosis. *Journal of Investigative Dermatology*, 53: 454-57.

ARAM, HOMAYOON, Instructor

Articles

With W. E. Bailey, F. J. Szymanski

Kyrle's disease. *Archives of Dermatology*, 100:453-56.

BAILEY, WILLIAM E., Clinical Assistant Professor

Articles

With F. J. Szymanski, Homayoon Aram

Kyrle's disease. *Archives of Dermatology*, 100:453-56.

BECKER, SAMUEL W., JR., Clinical Associate Professor

Articles

With O. C. Stegmaier, Maria Medenica

Multiple halo nevi. *Archives of Dermatology*, 99:180-89.

Pigmentary lesions common to the skin and oral cavity. *Oral Surgery, Oral Medicine, and Oral Pathology*, 28:526-33.

KASS, GUS S., Lecturer

Articles

With R. Beyak, C. F. Meyer

Elasticity and tensile properties of human hair. I. Single fiber test method. *Journal of the Society of Cosmetic Chemists*, 20: 615-26.

MEDENICA, MARIA, Assistant Professor

Articles

With O. C. Stegmaier, S. W. Becker, Jr.

Multiple halo nevi. *Archives of Dermatology*, 99:180-89.

SOLOMON, LAWRENCE M., Associate Professor

Articles

With A. T. Altman

Percutaneous steroid absorption in anhidrosis. *Journal of Investigative Dermatology*, 53: 454-57.

STEGMAIER, OTTO C., Clinical Assistant Professor

Articles

With S. W. Becker, Maria Medenica

Multiple halo nevi. *Archives of Dermatology*, 99:180-89.

SZYMANSKI, F. J., Clinical Professor

Articles

With Homayoon Aram, W. E. Bailey

Kyrle's disease. *Archives of Dermatology*, 100:453-56.

EDUCATIONAL DEVELOPMENT

McGUIRE, CHRISTINE, Professor

Articles

New developments in the assessment of professional education. *Australian and New Zealand Journal of Psychiatry*, 3:92-98.

A scientific approach to problems of professional assessment. *The Canadian Medical Association Journal*, 100:593-98.

REZLER, AGNES G., Associate Professor

Articles

Vocational choice in medicine. *Journal of Medical Education*, 44:285-92.

ENDODONTICS

CLEM, WILLIAM H., Assistant Professor

Articles

Endodontics: the adolescent patient. *Dental Clinics of North America*, 13:483-93.

With C. G. Maurice, B. F. Gurney

A statistical study of endodontic practice. *Illinois Dental Journal*, 38, 6:343-51.

EVANSON, LEONARD, Assistant Professor

Articles

With F. Weine, H. Healy, H. Gerstein

Canal configuration in the mesiobuccal root of the maxillary first molar and its endodontic significance. *Oral Surgery, Oral Medicine and Oral Pathology*, 28, 3:419-25.

MAURICE, CHARLES G., Professor and Head of Department

Articles

With W. H. Clem, B. F. Gurney

A statistical study of endodontic practice. *Illinois Dental Journal*, 38, 6:343-51.

MEDICAL SOCIAL WORK

JACOBS, EVELINE E., Research Associate

Bulletins and Technical Reports

With A. Gelperin, Lucy S. Kletke

School health services and programs in suburban Cook County, Illinois. Department of Preventive Medicine and Community Health, University of Illinois, College of Medicine, Chicago, 110 pp.

MEDICINE

ANDERSON, TRUMAN O., Associate Professor and Coordinator of Independent Study Program

Articles

With H. Griebble, G. Bach, M. Szanto

The serologic diagnosis of rheumatoid arthritis. The latex-rabbit gamma globulin fixation test. *Journal of Chronic Diseases*, 21: 667-76.

With R. Zschocke, H. Griebble, G. Bach

Studies on IgA. I. Fractionation procedures for isolation of IgA from pooled normal human plasma. *Journal of Immunology*, 102, 3:625-37.

With G. Bach, R. Wiatr, E. Cheatle

The latex ASO test. A rapid screening procedure for the detection of elevated anti-streptolysin O titers. *American Journal of Clinical Pathology*, 52, 1:126-28.

BACH, GERHARD L., Assistant Professor

Articles

With H. Griebble, M. Szanto, T. Anderson

The serologic diagnosis of rheumatoid arthritis. The latex-rabbit gamma globulin fixation test. *Journal of Chronic Diseases*, 21: 667-76.

With R. Zschocke, H. Griebble, T. Anderson

Studies on IgA. I. Fractionation procedure for isolation of IgA from pooled normal human plasma. *Journal of Immunology*, 102, 3:625-37.

With R. Wiatr, E. Cheatle, T. Anderson

The latex ASO test. A rapid screening procedure for the detection of elevated anti-streptolysin O titers. *American Journal of Clinical Pathology*, 25, 1:126-28.

Reviews

Das testostreon — die struma, by E. Klein. *Review of Surgery*, 25, 6:443.

Handbuch der inneren medicin, by Mohr and Staehlin. *Ibid.*, 26, 4:299-300.

BENTLEY, DAVID W., Assistant Professor

Articles

With M. H. Lepper

Empyema caused by clostridium perfringens. *American Review of Respiratory Diseases*, 100:706-10.

BERNSTEIN, LIONEL M., Clinical Professor

Articles

With W. Hamby

Unilateral renal function in hypertension. *Urology Digest*, 8:21-30.

BEST, WILLIAM R., Associate Professor

Articles

With J. Louis, L. R. Limarzi

Hematology. In *Clinical laboratory diagnosis*, ed. by Levinson and MacFate, Lee and Febiger, Philadelphia, pp. 752-930.

With C. Mason, S. Barron, H. Shepherd

Automated twelve-channel serum screening. I. What is normal? *Medical Clinics of North America*, 53, 1:175-88.

Reviews

Treatment of hemorrhagic disorders, by O. Ratnoff. *Journal of the American Medical Association*, 207, 6:1153.

Computers in the service of medicine, by McLahlan and Shegog. *Ibid.*, 11:2108.

A laboratory manual on abnormal haemo-

globins, by Jonxis and Huisman. *Ibid.*, 209, 2:272.

Color atlas and textbook of hematology, by W. Platt. *Ibid.*, 210, 11:2096.

Fundamentals of biostatistics, by S. Schor. *Annals of Internal Medicine*, 70, 4:873-74.

Interpretation and uses of medical statistics, by Bourke and McGilvray. *Ibid.*, 71, 6:1221.

Measurement in medicine, by P. Oldham. *Ibid.*

BLAIN, CHARLOTTE M., Instructor

Articles

Nephrectomy following liver biopsy. *American Journal of Digestive Diseases*, 14, 10:745-47.

With J. Shields

Surgical infections. In *Manual of surgical therapeutics*, ed. by R. Condon and L. Nyhus, Little, Brown & Co., Boston, pp. 87-102.

BOGDONOFF, MORTON D., Professor and Chairman of Department

Articles

Primary aldosteronism. *Archives of Internal Medicine*, 123:201.

Clinical science. *Ibid.*, 203.

On continuing learning. *Ibid.*, 345.

The new students. *Ibid.*, 467.

Concern about patient care. *Ibid.*, 719.

Introductory editor's note: investigative issues in diabetes mellitus. *Ibid.*, 219.

Self-awareness as a formal component of the curriculum. *Ibid.*, 124:385.

New curricula and training for patient care. *Ibid.*, p. 507.

The human need for an appointment with tomorrow. *Ibid.*, p. 635.

The super-specialist internist as a geriatrician. *Proceedings of Seminars, Duke University Council on Aging and Human Development*, April 8, 1969, pp. 115-20.

With K. Back, S. Wilson, W. Troyer

Racial environment, cohesion, conformity and stress. *Journal of Psychosomatic Research*, 13:27.

CARTON, ROBERT W., Professor

Articles

With R. Wong

Multifocal fibrosclerosis manifested by vena caval obstructions and associated with vasculitis. *Annals of Internal Medicine*, 70:81-86.

With N. Konietzko

Diffusionsstörung bei Patienten mit Sklerodermie. *Beiträge zur Klinik der Tuberkulose und spezifischen Tuberkulose-Forschung*, 139:196-205.

With M. Kale, G. Scholly

An audit of ward experience as a tool for teaching diagnosis in pulmonary medicine. *Journal of Medical Education*, 44, 10:955-60.

With N. Konietzko, E. Leroy

Causes of death in patients with bronchiectasis. *American Review of Respiratory Diseases*, 100, 6:852-58.

CERCHIO, GERARD M., Assistant Professor

Articles

With R. Piscotelli, S. Kleit

The ketogenic diet in the management of

obesity. In *Obesity*, ed. by N. Wilson, F. A. Davis Co., Philadelphia, pp. 185-89.

With V. Viewig, A. Graber

Pancreatic islet cell carcinoma with hyperinsulinism and probable ectopic ACTH-MSH secretion. *Archives of Internal Medicine*, 124:731-35.

With B. Fariss, V. Diraimondo

Urinary testosterone response to human chorionic gonadotropin evaluation of male patients with hypogonadotropic hypogonadism. *Fertility and Sterility*, 20:632-38.

COOKSEY, JACK C., Assistant Professor

Articles

The partial stream sampling assumption in intestinal perfusion studies. *Bulletin of Mathematical Biophysics*, 31:307-17.

COSTEA, NICOLAS V., Associate Professor

Articles

Neutropenia and agranulocytosis. In *Current diagnosis*, ed. by Conn and Conn, W. B. Saunders, Philadelphia, pp. 375-76.

With V. Yakulis, J. Schmale, P. Heller

Light chain determinants of exocrine isoagglutinins. *Journal of Immunology*, 101:1248.

With V. Yakulis, P. Heller

Cleavage of the Fe fragments of IgA. *Journal of Immunology*, 102:488-91.

With J. Schmale, S. Dray, P. Heller, V. Yakulis

Allelic exclusion of light chain allotypes in rabbit IgM cold agglutinins. *Proceedings of the Society for Experimental Biology and Medicine*, 130:48-50.

DEVETSKI, ROBERT L., Clinical Instructor

Books Edited

Antibiotic therapy. Ave Marie Press, South Bend, Indiana, 193 pp.

DOWLING, HARRY F., Professor Emeritus

Articles

Dr. Grissom and University of Nebraska. *Nebraska State Medical Journal*, 54, 10:691-93.

The ethics of testing in humans. *Toxicology and Applied Physiology*, Supplement 3, pp. 131-34.

How doctors use drugs: a perspective. In *Proceedings of the conference on continuing education for physicians in the use of drugs*, February 5, 1969, pp. 12-22.

FARAGO, PETER J., Assistant Professor

Articles

With E. Siegal, J. Robinson

Hospital-college program tops new manpower source. *Journal of the American Hospital Association*, 43:73-76.

FRANZBLAU, SANFORD A., Clinical Associate Professor

Reviews

A primer of cardiac diagnosis: the physical and technical study of the cardiac patient, by A. Luisade and G. Sainani. *Journal of the American Medical Association*, 207, 11:2107.

Diseases of the heart and circulation, by Paul Wood. *Ibid.*, 12:2289.

GANTT, CLARENCE L., Associate Professor

Articles

Acute renal insufficiency. In *Manual of surgical therapeutics*, ed. by R. Condon and L. Nyhus, Little, Brown & Co., Boston, pp. 235-42.

GOLDSTEIN, MELVIN J., Associate

Articles

With K. Nasr, H. Singer, J. Anderson, J. Kirsner

Osteomyelitis complicating regional enteritis. *Gut*, 10:264-66.

GUNNAR, ROLF M., Professor

Articles

With J. Duffy, J. Tobin, Jr.

Modern bedside methods in the diagnosis of heart disease. *Medical Clinics of North America*, 53, 1:97-113.

With R. Pietras, P. May, J. Tobin, Jr.

Reappraisal of the posterior percutaneous technique of left heart catheterization. *Diseases of the Chest*, 55, 6:471-78.

With H. Loeb, R. Pietras, N. Ninos, J. Tobin, Jr.

Hemodynamic responses to chlorpromazine in patients in shock. *Archives of Internal Medicine*, 124:354-53.

Hypovolemia in shock due to acute myocardial infarction. *Circulation*, 40, 5:653-59.

HAMBY, WILLIAM M., Assistant Professor

Articles

With E. Miller, E. Kaplan

Renograms compared with urograms, arteriograms, and function studies. *Journal of Nuclear Medicine*, 10, 9:603-06.

With L. Bernstein

Unilateral renal function in hypertension. *Urology Digest*, 8:21-30.

HARDISON, WILLIAM G. M., Assistant Professor

Articles

With I. Rosenberg

The effect of neomycin on bile salt metabolism and fat digestion in man. *Journal of Laboratory and Clinical Medicine*, 74, 4: 564-73.

With J. Norman

Effect of secretion on bile osmolality. *Journal of Laboratory and Clinical Medicine*, 73, 1:34-41.

With H. Brown

Substitution of fluorocarbon for erythrocytes in rat liver perfusion. *Journal of the Association for Advancement in Medical Instrumentation*, 3, 1:25-30.

HARRIS, WILLARD S., Associate Professor

Articles

With A. Weissler, C. Schoenfeld

Bedside techniques for the evaluation of ventricular function in man. *American Journal of Cardiology*, 23:577.

With P. Shiner, A. Weissler

Effects of acute changes in serum calcium levels on the systolic time intervals in man. *American Journal of Cardiology*, 24, 1: 42-48.

HELLER, PAUL, Professor

Articles

Hemoglobin M—an early chapter in the

saga of molecular pathology. *Annals of Internal Medicine*, 70:1038-41.

With W. Fried, T. Kilbridge

The mechanism by which plethora suppresses erythropoiesis. *Blood*, 33:104-13.

With J. Schmale, N. Costea, S. Dray, V. Yakulis

Allelic exclusion of light chain allotypes in rabbit IgM cold agglutinins. *Proceedings of the Society for Experimental Biology and Medicine*, 130:48-50.

With N. Costea, V. Yakulis

Cleavage of the Fe fragments of IgA. *Journal of Immunology*, 102:488-91.

With V. Yakulis

Distribution of hemaglobin A₂. *Proceedings of the New York Academy of Science*, 165: 54-59.

Reviews

Hamolyse und hamolytische anaemien, by Guenther Gehrmann. *Annals of Internal Medicine*, 70, 5:1052-53.

HOLMES, ALBERT W., Associate Professor

Articles

With H. Rosenblate, A. Susmano

Hepatic granulomas following sulfoxazole administration. *Presbyterian-St. Luke's Hospital Medical Bulletin*, 7, 3:116.

With L. Wolfe, H. Rosenblate, F. Deinhardt

Hepatitis in marmosets: induction of disease with coded specimens from a human volunteer study. *Science*, 165:816.

With J. Ogden, F. Deinhardt

Marmosets in microbiological research. *NAS-NRC Publication*, 1736:11-17.

HUSSEY, HUGH H., Clinical Professor

Articles

The AMA—why belong? *Clinical Research*, 17, 4:564-66.

JACKSON, GEORGE G., Professor

Articles

With E. Stanley, R. Muldoon

Evaluation of antiviral drugs in volunteers. In *Progress in medical virology*, ed. by J. Melnick, S. Karger, Basel, New York, pp. 355-87.

Summary. International symposium on gentamicin. *Journal of Infectious Diseases*, 119:536.

With E. Stanley

Spread of enteric live adenovirus type 4 vaccine in married couples. *Journal of Infectious Diseases*, 119, 1:51-59.

With R. Mueller, R. Muldoon

Communicability of enteric live adenovirus type 4 in families. *Journal of Infectious Diseases*, 119:60-66.

With L. Tremonti

Study of delayed hypersensitivity to myxoviruses induced by vaccines. *Applied Microbiology*, 17:577-83.

JOHNSTON, LOUIS C., Clinical Assistant Professor

With R. Santo, C. Gantt

The antihypertensive properties of furosemide. *Journal of Clinical Pharmacology*, 10: 121-25.

KAPLAN, ERVIN, Professor

Articles

Diagnostic nuclear medicine. In *The bio-*

- chemistry of clinical medicine, 4th ed., Yearbook Publishers, Chicago, pp. 811-27.
- With M. Ben-Porath, G. Clayton**
Tape recording as an adjunct for simultaneous multiradionuclide imaging. *Biomedical Sciences Instrumentation Featuring Imagery in Medicine*, 6:235-40.
- Tape recording of dual-channel energy-modulated color scanning. *Ibid.*, 4:155-59.
- With M. Ben-Porath**
Clinical application of colour modulation of gamma energy and depth by dual-channel scanning. *Medical Radioisotope Scintigraphy, IAEA, 1*, 1:375-88.
- Dual channel scanning. *Medical Clinics of North America*, 531:189-203.
- The distribution and concentration of ⁷⁵se-selenomethinine in man. *Ibid.*, 11:709-10.
- With S. Fink, M. Ben-Porath, M. Jacobson, G. Clayton**
Current status of dual-channel pancreas scanning. *Journal of Nuclear Medicine*, 10, 2:78-82.
- With W. Hamby, E. Miller**
Renograms compared with urograms, arteriograms and function studies. *Ibid.*, 109: 603-06.
- KARK, ROBERT M., Professor**
Articles
The kidney diseases and disturbances. In *Modern home medical adviser*, ed. by M. Fishbein, Doubleday & Co., Garden City, pp. 30-52.
- With F. Schwartz, T. Ing, J. Honari**
Physiology of the renal circulation, In *Clinical cardiopulmonary physiology*, ed. by Gordon, Carleton, & Faber, Grune & Stratton, New York, pp. 30-52.
- With V. Pollak, S. Rosen, C. Pirani, R. C. Muehrcke**
Natural history of lipid nephrosis and membranous glomerulonephritis. *Annals of Internal Medicine*, 69:1171.
- With V. Pillay, F. Schwartz, K. Aimi**
Transient and permanent deafness following treatment with ethacrynic acid in renal failure. *Lancet*, 1, 7585:77-79.
- With G. Dunea, R. Lannigan, D. D'Alessio, R. Muehrcke**
Brucella nephritis. *Annals of Internal Medicine*, 70:783.
- With V. Pillay, F. Schwartz, H. Battifora, R. Buenger**
Massive proteinuria associated with vesico-ureteral reflux. *Lancet*, 2, 7633:1272-73.
- KORNEL, LUDWIG, Professor**
Articles
With W. Starnes, A. Hill
Studies on steroid conjugates. VI. Quantitative paper chromatography of urinary corticosteroids in essential hypertension. *Journal of Clinical Endocrinology*, 29, 12:1608-17.
- LEVINE, HAROLD, Associate Professor**
Articles
With A. Chandrasekhar, A. Palattas, A. Dubin
Pleural fluid lactic acid dehydrogenase activity and protein content. *Archives of Internal Medicine*, 123:48-50.
- LEVITAN, RUVEN, Associate Professor**
Articles
Colonic absorption of electrolytes and water. *American Journal of Clinical Nutrition*, 22, 3:315-17.
- With S. Gorbach, G. Spanknebel, L. Weinstein, A. Plaut, L. Nahas**
Studies of intestinal microflora. VII. Effect of lincomycin on the microbial population of the human intestine. *Journal of Infectious Diseases*, 120, 3:298-304.
- With C. Billich**
Effects of sodium concentration and osmolality on water and electrolyte absorption from the intact human colon. *Journal of Clinical Investigation*, 48, 7:1336-47.
- Reviews**
Malabsorption syndromes, by Shingleton and Dobbins. *Annals of Internal Medicine*, 70, 3:660.
- LIMARZI, LOUIS R., Professor**
Articles
With W. Best, J. Louis
Hematology. In *Clinical laboratory diagnosis*, ed. by Levinson and MacFate, Lea & Febiger, Philadelphia, pp. 752-930.
- LITTMAN, ARMAND, Professor**
Articles
With D. Hanscom
Pancreatic extracts. *New England Journal of Medicine*, 281:201-04.
- Reviews**
The principles and practice of medicine, by S. Davidson. *Military Medicine*, 134, 4:311.
- Malabsorption syndromes, by Shingleton and Dobbins. *Gastroenterology*, 56, 4:844.
- Textbook of medical treatment, by Sir Darick Dunlop. *Military Medicine*, 134, 12:1474.
- LOURENCO, RUY V., Professor**
Articles
Diaphragmatic activity in obesity. *Journal of Clinical Investigation*, 48, 9:1609-14.
- MALKINSON, FREDERICK D., Professor**
Articles
With M. Griem
Some effects of radiations and radiation modifiers on growing hair. In *Frontiers of radiation therapy and oncology*, ed. by J. Vaeth, S. Karger, Basel, Switzerland, pp. 24-45.
- National residency matching program for dermatology. *Archives of Dermatology*, 99: 350-53.
- Some cutaneous disorders with oral manifestations. *Proceedings, Annual Meeting of the American Institute of Oral Biology*, 26: 61-68.
- The epidermal barrier and its permeability. *Proceedings, Annual Meeting of the American Institute of Oral Biology*, 26:71-82.
- Some laboratory and clinical studies on the combined effects of ionizing radiation and chemotherapy. *Proceedings, Annual Meeting of the American Institute of Oral Biology*, 26:85-94.
- With M. Griem, L. Skaggs, L. Lanzi**
Experience in radiobiological dosimetry with high-dose-rate electrons. *Annals of the New York Academy of Science*, 161:317-22.
- With D. Kabir**
Lupus erythematosus and calcinosis cutis. *Archives of Dermatology*, 100:17-22.
- With R. Pearson**
Ultrastructural changes in rat vibrissae following radiation. *Journal of Investigative Dermatology*, 53:95-106.

MILLER, GEORGE E., Professor and
Director of Office of Research in
Medical Education

Articles

The study of medical education. *British Journal of Medical Education*, 3, 1:5-11.

MONTGOMERY, MAX M., Professor

Articles

With R. Poske, J. Libnoch, C. Pitz

Gonococcal arthritis. *General Practice*, 39: 91-95.

NAUGHTON, JOHN P., Associate Professor
and Coordinator of Rehabilitation Center

Articles

Active pre-season evaluation of prospective athletes. In *Symposium on sports medicine*, ed. by American Academy of Orthopedic Surgeons, C. V. Mosby Co., St. Louis, pp. 30-36.

With J. Bruhn, M. Lategola, T. Whitsett

Rehabilitation following myocardial infarction. *American Journal of Medicine*, 46, 5:725-34.

With J. Bruhn

Effects of a course in internal medicine on the attitudes of first-year medical students. *Journal of Medical Education*, 44, 6:504-09.

With M. Lategola, C. Brake, P. Lyne

Use of simultaneous multilead telecardiography for monitoring cardiovascular rehabilitants during exercise. *Clinical Aviation and Aerospace Medicine*, 40, 11:1258-64.

PERLIA, CHARLES P., Assistant Professor

Articles

With W. G. Ryan, T. Schwartz

Effects of mithramycin on Paget's Disease of bone. *Annals of Internal Medicine*, 70: 549-57.

PIETRAS, RAYMOND J., Associate
Professor

Articles

With R. May, R. Gunnar, J. Tobin, Jr.

Reappraisal of the posterior percutaneous technique of left heart catheterization. *Diseases of the Chest*, 55, 6:471-76.

With H. Loeb, N. Ninos, J. Tobin, Jr.,
R. Gunnar

Hemodynamic responses to chlorpromazine in patients in shock. *Archives of Internal Medicine*, 124:354-58.

With H. Loeb, J. Tobin, Jr., R. Gunnar

Hypovolemia in shock due to acute myocardial infarction. *Circulation*, 40, 5:653-59.

POLLAk, VICTOR E., Clinical Professor

Articles

With H. Kalousek, C. Hlavacek, B. Nedoss

Circadian rhythms of creatinine and electrolyte excretion in healthy pregnant women. *American Journal of Obstetrics and Gynecology*, 103:856-67.

With E. Rosenmann, A. Kanter, R. Bacani,
C. Pirani

Fatal late postpartum intravascular coagulation with acute renal failure. *American Journal of Medical Science*, 257:259-73.

With N. Nadler, L. Salinas-Madriral,
A. Charles

Acute glomerulonephritis during late pregnancy: report of a case. *Obstetrics and Gynecology*, 34:277-83.

POSKE, ROBERT M., Associate Professor

Articles

With M. Montgomery, J. Libnoch

Gonococcal arthritis. *General Practice*, 39: 91-95.

POUGET, JEAN M., Assistant Professor

Articles

With N. Levin, S. Mehta, M. Liberson

Pseudocarcinoma of the aorta: an unusual variant with coarctation. *American Journal of Cardiology*, 24:584-90.

PYLE, MARJORIE M., Clinical Associate
Professor

Articles

Clinical applications of ethambutol: a review. *Tubercle*, 49:30-32.

With V. Place, J. de la Huerria

Ethambutol in tuberculous meningitis. *American Review of Respiratory Diseases*, 99: 783-85.

ROBERTSON, GARY L., Assistant
Professor

Articles

Immunoassay of small polypeptide hormones. *British Journal of Hospital Medicine*, 2, 9:1481-84.

ROSEN, KENNETH M., Assistant Professor

Articles

With S. Lau, A. Domato

Simulation of atrial flutter by rapid coronary sinus pacing. *American Heart Journal*, 78, 5:635-42.

With A. Domato, S. Lau, N. Berkovitz, K. Lisi

Recording of specialized condition fiber (A. V. nodal, his bundle and right bundle branch) in man using an electrode catheter technique. *Circulation*, 39:435-47.

ROTHENBERG, A. JERALD, Instructor

Articles

With J. Clark, J. Muenster, R. Carleton

Natural history of mitral stenosis. *Diseases of the Chest*, 55, 1:3-7.

RYAN, WILL G., Assistant Professor

Articles

With T. Schwartz, C. Perlia

Effects of mithramycin on Paget's Disease of bone. *Annals of Internal Medicine*, 70, 3:549-57.

With I. Goldfine, T. Schwartz

The effect of glucoala, diet cola and water ingestion on blood glucose and plasma insulin. *Proceedings of the Society for Experimental Biology and Medicine*, 131: 329-30.

With A. Harris, H. Dubner

A comparison of serum growth hormone responses and various stimuli for evaluation of pituitary function. *Presbyterian-St. Luke's Hospital Medical Bulletin*, 8, 3: 91-96.

SAMTER, MAX, Professor

Books Edited

Excerpts from classics in allergy. Ross Laboratories, Columbus, Ohio, 117 pp.

Articles

The acetyl— in aspirin. *Annals of Internal Medicine*, 71, 1:208-09.

Reactions to drugs. *Illinois Medical Journal*, 136, 2:159-65.

SCHMIDT, ALEXANDER M., Professor and
Dean of the Abraham Lincoln School of
Medicine

Articles

- With F. Anderson, T. Tsagaris, G. Tikoff,
J. Thorne, H. Kuida
Hemodynamic effects of exercise in patients
with aortic stenosis. *American Journal of
Medicine*, 46, 6:872-85.

SCHOENBERGER, JAMES A., Clinical
Professor

Articles

- With J. Stamler and others
Detection of susceptibility to coronary disease.
*Bulletin of the New York Academy of
Medicine*, 45, 12:1306-25.

SCHOLLY, G. STEPHEN, Clinical Assistant
Professor

Articles

- With M. Kale, R. W. Carton
An audit of ward experience as a tool for
teaching diagnosis in pulmonary medicine.
Journal of Medical Education, 44, 10:
955-60.

SCHWARTZ, FRANKLIN D., Associate
Professor

Articles

- Prepared statement on the problem of urine
enzyme determinations. In *Enzymes in
urine and kidney*, ed. by Aebi and Matten-
heimer, Hans Huber Publishers, Berne/
Stuttgart, pp. 296-97.

With T. Ing, R. Kark, J. Honari

- Physiology of the renal circulation. In *Clinical
cardiopulmonary physiology*, ed. by
Gordon, Carleton and Faber, Grune and
Stratton, New York, pp. 30-52.

With V. Pillay, R. Kark, J. Honari

- Transient and permanent deafness following
treatment with ethacrynic acid in renal
failure. *Lancet*, 1, 7585:77-79.

With D. Wilson

- In vivo incorporation of iodopyracet into
erythrocytes of healthy individuals and azo-
temic patients. *Journal of Laboratory and
Clinical Medicine*, 72, 6:951-57.

With D. Wilson, J. Apter

- A model for measuring renal blood flow from
the plasma disappearance of iodopyracet.
Journal of Applied Physiology, 28, 1:77-88.

With V. Pillay, H. Battifora, R. Buenger,
R. Kark

- Massive proteinuria associated with vesico-
ureteral reflux. *Lancet*, 2, 7633:1272-73.

SCHWARTZ, THEODORE B., Professor

Books Edited

- Yearbook of endocrinology, Yearbook Medical
Publishers, Chicago, 409 pp.

Articles

With I. Goldfine, W. Ryan

- The effect of glucola, diet cola and water
ingestion on blood glucose and plasma
insulin. *Proceedings of the Society for
Experimental Biology and Medicine*, 131:
329-30.

With L. Kornel

- Corticosteroids in human blood: free and
conjugated 17-hydroxycorticosteroids in
healthy people and patients with Cushing's
Syndrome before and after administration
of corticotrophin. *Acta Endocrinologica*, 60:
13.

With L. Kornel, C. Meador

- Extra-adrenal effect of corticotrophin (ACTH)
on peripheral metabolism of cortisol-4-¹⁴C
in vivo. *Federal Proceedings*, 28:571.

With W. Ryan, C. Perlia

- Effects of mithramycin on Paget's Disease of
bone. *Annals of Internal Medicine*, 70,
3:549-57.

SHARP, JOHN T., Professor

Articles

- Fibrosis, diffuse granulomas and pneumo-
coniosis. In *Clinical cardiopulmonary phys-
iology*, ed. by Gordon, Carleton and Faber,
Grune and Stratton, New York, pp. 614-30.

- Measurement of pH and blood gases in arteri-
alized capillary blood. *Medical Clinics of
North America*, 53, 1:137-45.

With M. Fort, J. Chitty, W. Meadows

- The effect of ventricular alternation on
a summation gallop sound: report of a
case with left atrial and left ventricular
intracardiac phonocardiograms. *American
Journal of Cardiology*, 23, 5:748-51.

With R. Parameswaran, W. Meadows

- Coronary embolism in primary myocardial
disease. *American Heart Journal*, 78, 5:
682-87.

With P. Van Lith, M. Barrocas, R. Nelson

- Effect of hypnosis on total respiratory com-
pliance. *Journal of Applied Physiology*,
27, 6:804-06.

With S. Chokroverty, K. Barron, K. Katz,
F. DelGreco

- The syndrome of primary orthostatic hypo-
tension. *Brain*, 29, 4:743-60.

STANLEY, EDITH D., Research Assistant
Professor

Articles

With G. G. Jackson, R. Muldoon

- Evaluation of antiviral drugs in volunteers.
In *Progress in medical virology*, ed. by
J. Melnick, S. Karger, Basel, New York,
pp. 355-87.

With G. G. Jackson

- Spread of enteric live adenovirus type-4
vaccine in married couples. *Journal of
Infectious Diseases*, 119, 1:51-59.

STANLEY, MALCOLM M., Professor

Articles

- Steroid-wasting enteropathy: clinical picture,
bile salt absorption and fecal excretion and
therapy. In *Bile salt metabolism*, ed. by
Schiff, Carey and Dietschy, Charles C.
Thomas Co., Springfield, Ill., pp. 266-83.

STEIGMANN, FREDERICK, Clinical
Associate Professor

Articles

- Significance of rectal biopsy in clinical
medicine. *Proceedings of the First Euro-
pean Congress on Digestive Endoscopy*, pp.
176-77.

With I. Alavi, K. Printen

- Free perforation in chronic regional enter-
itis. *American Journal of Digestive Dis-
eases*, 14:420.

SUSMANO, ARMANDO, Instructor

Articles

With S. J. Heller, R. Carleton

- Artefactual mitral regurgitation: a source of
diagnostic error during left ventricular angio-

cardiographic. *Presbyterian-St. Luke's Hospital Medical Bulletin*, 8, 1:2.

With J. Graettinger, R. Carleton

The relationship between Q-T interval and heart rate. *Journal of Electrocardiology*, 2, 3:269-74.

TAYLOR, SAMUEL G., III, Professor

Articles

With S. Cutler, A. Asire

Classification of patients with disseminated cancer of the breast. *Cancer*, 24:861-69.

With J. Goldenberg and others

Clinical trial of Δ -testololactone (NSC 23759), medroxy progesterone acetate (NSC 26386) and oxylyone acetate (NSC 47438) in advanced mammary cancer. A report of the cooperative breast cancer group. *Cancer*, 23:109-12.

TROBAUGH, FRANK E., JR., Professor

Articles

With W. Knospe, W. Fried

Abscopal effects upon bone marrow stem cell kinetics. *Experimental Biology*, 81:15-18.

WILLIAMS, GERALD A., Professor

Articles

With E. Bowser, W. Henderson

Mode of hypocalcemic action of glucagon in the rat. *Endocrinology*, 85, 2:537-41.

With G. Hargis, C. Sidwell, B. Jackson

An ultramicro method for serum calcium determination. *American Journal of Clinical Pathology*, 52:773-75.

MICROBIOLOGY

ANDERSON, TRUMAN O., Associate

Professor

See Medicine.

BARAM, PETER, Associate Professor

Articles

With R. E. Paque, P. J. Kniskern, S. Dray

In vitro studies with "transfer factor": transfer of the cell-migration inhibition correlate of delayed hypersensitivity in humans with cell lysates from humans sensitized to histoplasmin, coccidioidin, or PPD. *The Journal of Immunology*, 103:1014-21.

DEINHARDT, FRIEDRICH, Professor

Articles

Current trends in use of marmoset in virological research. *Annals of the New York Academy of Sciences, experimental medical surgery in primates*, 162:551-55.

The search for human hepatitis virus. *Vox Saguinis*, 17:49-52.

With G. Shramek

Development of an attenuated mumps virus vaccine. II. Immune response of animals to vaccination with inactivated and live attenuated mumps viruses. *The Journal of Immunology*, 102:1093-98.

With A. W. Holmes, L. Wolfe, H. Rosenblate

Hepatitis in marmosets: induction of disease with coded specimens from a human volunteer study. *Science*, 165:816-17.

With A. W. Holmes, J. D. Ogden

Marmosets in microbiological research. *National Academy of Sciences, Animal Models for Biomedical Research*, II:11-17.

DRAY, SHELDON, Professor and Head of Department

Articles

With J. Schmale, N. Costea, P. Heller, V. Yakulis

Allelic exclusion of light chain allotypes in rabbit IgM cold agglutinins. *Proceedings of the Society for Experimental Biology and Medicine*, 130:48-50.

With J. L. Vice, W. L. Hunt

Zygote transfer to facilitate altered expression of immunoglobulin light chain phenotypes in homozygous rabbits. *Ibid.*, 130:730-33.

Allotype suppression with anti-b5 antiserum in $b^b b^b$ homozygous rabbits fostered in uteri of $b^b b^b$ homozygous mothers: compensation by allotypes at other loci. *Journal of Immunology*, 103:629-38.

With J. W. Chiao

Identification and genetic control of rabbit haptoglobin allotypes. *Biochemical Genetics*, 3:1-13.

With T. P. Conway, E. A. Lichter

Identification and genetic control of three rabbit IgA immunoglobulin allotypes. *The Journal of Immunology*, 102:544-54.

Identification and genetic control of the f4 and f5 rabbit IgA immunoglobulin allotypes. *Ibid.*, 103:662-67.

With J. Albers

Identification and genetic control of two new low-density lipoprotein allotypes: phenogroups at the Lp_q locus. *Ibid.*, 103:155-62.

Allelic exclusion and phenogroup expression in individual molecules of rabbit low-density lipoprotein allotypes. *Ibid.*, 103:163-69.

With R. E. Paque, P. J. Kniskern, P. Baram

In Vitro studies with "transfer factor": transfer of the cell-migration inhibition correlate of delayed hypersensitivity in humans with cell lysates from humans sensitized to histoplasmin, coccidioidin, or PPD. *Ibid.*, 103:1014-21.

With E. A. Lichter, T. P. Conway

Genetic Control of rabbit IgA immunoglobulins. *Protides of Biological Fluids (17th Colloquium)*, B3 genetics of productive processes — allotypy, pp. 131-36.

With L. V. Albers, K. L. Knight

Allotypes and isozymes of rabbit alpha-aryl esterase. Allelic products with different enzymatic activities for the same substrates. *Biochemistry*, 8:4416-24.

With A. Gilman-Sachs, R. G. Mage, G. O. Young, C. Alexander

Identification and genetic control of two rabbit immunoglobulin allotypes at a second light chain locus, the c locus. *The Journal of Immunology*, 103:1159-67.

With C. Bell

Conversion of non-immune spleen cells by ribonucleic acid of lymphoid cells from an immunized rabbit to produce IgM antibody of foreign light chain allotype. *Ibid.*, 103:1196-1211.

HAMMOND, CAROLYN W., Associate

Professor

Articles

With H. B. Johnson

Bactericidal activity of fixed phagocytes in irradiated and unirradiated mice treated with endotoxin. *Proceedings of the Society for Experimental Biology and Medicine*, 130:504-08.

HAQUE, RIAZ-UL, Assistant Professor

Articles

With J. N. Baldwin

Purification and properties of staphylococcal beta hemolysin. II. Purification of beta hemolysin. *Journal of Bacteriology*, 100: 751-59.

HUNT, WILLIAM L., Research Associate

Articles

With J. L. Vice, S. Dray

Zygote transfer to facilitate altered expression of immunoglobulin light chain phenotypes in homozygous rabbits. *Proceedings of the Society for Experimental Biology and Medicine*, 130:730-33.

Allotype suppression with anti-b5 antiserum in b^{b5} homozygous rabbits fostered in utero of b^{b4} homozygous mothers; compensation by allotypes at other loci. *The Journal of Immunology*, 103:629-38.

KHOBYARIAN, NEWTON, Associate Professor

Articles

With J. G. Gallagher

Adenovirus susceptibility to interferon: sensitivity of types 2, 7, and 12 to human interferon. *Proceedings of the Society for Experimental Biology and Medicine*, 130: 137-42.

KNIGHT, KATHERINE L., Assistant Professor

With L. V. Albers, S. Dray

Articles

Allotypes and isozymes of rabbit alpha-arylesterase. Allelic products with different enzymatic activities for the same substrate. *Biochemistry*, 8:4416-24.

KROEGER, ARTHUR V., Associate Professor

Articles

With D. S. Evaskus, D. M. Laskin

Penetration of lincomycin, penicillin, and tetracycline into serum and bone. *Proceedings of the Society for Experimental Biology and Medicine*, 130:89-91.

LEBEAU, LEON J., Associate Professor

Articles

Development of broad audio-visual services with limited facilities. *Journal of the Biological Photographic Association*, 37:16-24.

With M. B. Mrtek, F. P. Siegel, R. G. Mrtek

Microculture assay for rapid determination of antifungal activity. *Journal of Pharmaceutical Sciences*, 58:1362-65.

MARCZYNSKA, BARBARA, Instructor

Articles

With J. W. Butler, M. K. Butler

Automatic analysis of 835 marmoset spreads. *Annals of the New York Academy of Science*, 157:424-37.

MARKOWITZ, ABRAHAM S., Professor

Articles

Streptococcal related glomerulonephritis in the Rhesus Monkey. *Transplantation Proceedings*, 1:985-91.

With H. Battifora

Nephrotic nephritis in monkeys: a sequential light and electron microscopic study employing two different antisera. *American Journal of Pathology*, 55:267-81.

With F. Rapaport, R. T. McCluskey

The bacterial induction of homograft sensitivity. III—Effects of group A streptococcal membrane antisera. *Journal of Experimental Medicine*, 129:623-45.

With F. Rapaport

Streptococcal antigens and antibodies in transplantation. *Transplantation Proceedings*, 1: 638-44.

Induction of glomerulonephritis in renal autografts. *Surgery*, 66:34-36.

With F. Rapaport, R. T. McCluskey,

T. Hanaoka, T. Shimada

Induction of renal disease with antisera to group A streptococcal membranes. *Transplantation Proceedings*, 1:981-84.

NISONOFF, ALFRED, Professor and Head of Biochemistry

Articles

With R. L. Humphrey, H. P. Avey,

L. N. Becka, R. J. Poljak, and others

X-ray crystallographic study of the Fab fragments from two human myeloma proteins. *Journal of Molecular Biology*, 43: 223-26.

With A. B. MacDonald, L. Alescio

Biosynthesis of antibody molecules with similar properties during prolonged immunization. *Biochemistry*, 8:3109-14.

With H. Daugharty, J. E. Hopper,

A. B. MacDonald

Quantitative investigations of idiotypic antibodies. I. Analysis of precipitating antibody populations. *Journal of Experimental Medicine*, 130:1047-61.

With G. Rossi, T. K. Choi

Crystals of fragment Fab': preparation from pepsin digests of human IgG myeloma proteins. *Nature*, 223:837-38.

NORTHROP, ROBERT L., Assistant Professor

Articles

Effect of puromycin and actinomycin D on a persistent mumps virus infection *in vitro*. *Journal of Virology*, 4:133-40.

With H. J. Dold

Analysis of the diluents used for rubella virus hemagglutination and hemagglutination-inhibition tests. *Applied Microbiology*, 8:221-27.

With M. T. Kenny, A. J. Schwarz,

J. L. Bittle, R. B. Nolan

Rapid attenuation of rubella virus in African green monkey kidney tissue culture. *Symposium Series Immunobiology Standard*, 11: 219-28.

PUMPER, ROBERT W., Associate Professor

Articles

With J. Barnothy, M. Barnothy

The effect of strong inhomogeneous magnetic fields on the growth of serum-less mammalian cells. *The Annual Review of Biomagnetism*, 2:61-66.

ROSSI, GUIDO, Research Associate

Articles

With R. L. Humphrey, H. P. Avey,

L. N. Becka, R. J. Poljak, and others

X-ray crystallographic study of the Fab fragments from two human myeloma proteins. *Journal of Molecular Biology*, 43:223-26.

With T. K. Choi, A. Nisonoff

Crystals of fragment Fab': preparation from pepsin digests of human IgG myeloma proteins. *Nature*, 223:837-38.

SHRAMEK, GRACE, Research Associate

Articles

With F. Deinhardt

Development of an attenuated mumps virus vaccine. II. Immune response of animals to vaccination with inactivated and live attenuated mumps viruses. *The Journal of Immunology*, 102:1093-98.

TAYLOR, WELTON, I., Associate Professor

Articles

With D. Schelhart

Isolation of Shigellae. VII. Comparison of gram-negative broth with Rappaport's Enrichment Broth. *Applied Microbiology*, 18: 393-95.

VICHER, EDWARD E., Associate Professor

Articles

With R. A. Zussman, I. Lyon

Incorporation of acetate into *Trichophyton Rubrum* Phenylalanine. *Mycopathologia et Mycologia Applicata*, 37:86-88.

Aromatic amino acid biosynthesis in *Trichophyton Rubrum*. II. Failure to detect endogenous shikimic acid and related substances. *Mycopathologia et Mycologia Applicata*, 37:104-08.

NEUROLOGY AND NEUROLOGICAL SURGERY

BAILEY, ORVILLE T., Professor

Articles

Delight in evil. *Perspectives in Biology and Medicine*, 12:219.

With L. B. Riggs, H. E. Riggs

Foreword. In *Myelination of the brain in the newborn*, ed. by Rorke, J. B. Lippincott Co., Philadelphia.

Reviews

Applied neurochemistry, by A. N. Davison and John Dobbing. *Journal American Medical Association*, 210:1285.

Neuroectodermal tumors of the central and peripheral nervous system, by Konstantin Scharenberg and Leopold Liss. *Ibid.*, p. 1767.

BOSHES, LOUIS D., Associate Professor

Articles

With J. M. Levin

Auto-immunity and the central nervous system. *Diseases of the Nervous System*, 30, 4:273-79.

The history of neurology in Chicago. *Proceedings of the Institute of Medicine in Chicago*, 27, 9:242-48.

The medical treatment of epilepsy in children. *Chicago Medicine*, 72, 10:347-50.

Mental disorders. In *Modern home adviser*, ed. by Fisbein, Doubleday & Co., New York, pp. 902-32.

With H. W. Kienast, L. H. Hussman

Determination of compressibility by ultrasound and its diagnostic significance for pathologic indurations, degenerations and pulsations. *Proceedings of the International Symposium of Echoencephalography*, Springer-Berlin, pp. 34-37.

With H. W. Kienast

Community aspects of epilepsy — a modern approach. *Excerpta Medica, International Congress Series*, Amsterdam, p. 991.

Reviews

Epilepsy, by Richard P. Schmidt and B. Joe

Wilder. *Journal American Medical Association*, 208, 5:869.

Neurology — a concise clinical textbook, by Joseph A. Lohan. *Diseases of the Nervous System*, 30, 6:69-71.

The neurosciences, by Gardner C. Quarton, Theodore Melnechuk, and Frances O. Schmitt. *Medical World News*, 10, 15:40.

COHEN, MAYNARD M., Professor

Articles

Toxic neuropathy. In *Handbook of clinical neurology*, ed. by P. J. Vinken and G. W. Bruyn, North Holland Publishing Co., Amsterdam, pp. 18-19.

GARVIN, JOHN S., Professor

Articles

With H. L. Klawans, Jr., R. B. Shekelle

The effect of previous anti-Parkinson surgery on L-Dopa treatment. *Medical Bulletin Presbyterian — St. Luke's Hospital*, 8, 4: 115-17.

With H. L. Klawans, Jr.

Treatment of Parkinsonism with L-Dopa. *Diseases of the Nervous System*, 30, 11:737-46.

With H. Blustein, R. R. Wasserman, L. Halperin

A critical evaluation and review of ACTH (Corticotrophin) in the treatment of acute exacerbations of multiple sclerosis. *Medical Times*, 97, 12:137.

GIBBS, FREDERIC A., Professor

Articles

The electroencephalogram in clinical practice. *Journal American Medical Women's Association*, 24:212-19.

KLAWANS, HAROLD L., JR., Instructor

Articles

With M. Erlich

L-Dopa and the negative symptoms of Parkinsonism. *Journal Neurology, Neurosurgery and Psychiatry*, 32:460-61.

With J. S. Garvin, R. B. Shekelle

The effect of previous anti-Parkinson surgery on L-Dopa treatment. *Medical Bulletin Presbyterian — St. Luke's Hospital*, 8, 4: 115-17.

With W. H. Harrison, R. M. Gray, T. DeCloux

Iron in commercial ATP preparations. *Biochemica et Biophysica Acta*, A 23551.

With W. H. Harrison, R. M. Gray

Interactions in binary and ternary mixtures of catecholamines ATP, and Mg⁺⁺. *Federation Proceedings*, 28, 2:741.

With W. J. Weiner, W. H. Harrison

L-Dopa and cerebrospinal fluid homovanillic acid in Parkinsonism. *Life Sciences*, 8: 971.

SUGAR, OSCAR, Professor

Articles

With J. A. Jane, D. Yashon, D. P. Becker, R. Beatty

The effect of destruction of the corticospinal tract in the human cerebral peduncle upon motor function and involuntary movements. Reports of 11 cases. *Journal of Neurosurgery*, 29, 6:581-85.

The convulsive state — a symposium, L. D. Boshes, moderator; contributors, M. M. Cohen, F. A. Gibbs, H. J. Grossman, H. L. Klawans, Jr., S. Metrick. *Current Medical Digest*, 37, 1:35.

Reviews

- Congenital anomalies of the carotid arteries, including the carotid, basilar and carotid vertebral anastomoses: an angiographic study and a review of the literature, by T. A. Lie. *Journal American Medical Association*, 207, 8:1521.
- Operative neurosurgery, vol. 1, cranial, cerebral and intracranial vascular disease, by Ludwig G. Kempe. *Ibid.*, 10:1921.
- Cerebral vascular disease, ed. by J. F. Toole, R. G. Sickert, and J. P. Whisnant. *Ibid.*, 209, 1:114.
- Cervical spondylosis and its neurological complications, by Bernard H. Smith and Charles C. Thomas. *Ibid.*, 3:421.
- Intracranial aneurysms and subarachnoid hemorrhage: a cooperative study by A. L. Saks *et al.*, *Ibid.*, 3:422.
- Harvey Cushing: selected papers on neurosurgery, ed. by D. D. Matson, W. J. German and a committee of the American Association of Neurological Surgeons. *Ibid.*, 11:1724.
- Cerebral circulation, progress in brain research, ed. by W. Luyendijk. *Ibid.*, 13: 2058.
- Progress in neurological surgery, vol. 2, by H. Krayenbuhl, P. E. Maspas, W. H. Sweet *et al.*, *Ibid.*, 210, 4:730.
- Pain and the neurosurgeon, a forty-year experience, by J. C. White and W. H. Sweet with assistance from Stanley Cobb and C. C. Thomas. *Ibid.*, 9:730.
- Dynamic factors in diagnosis of supratentorial brain tumors by cerebral angiography, by N. E. Lewis and J. M. Taveras. *Ibid.*, 13: 2400.

VORIS, HAROLD C., Professor

Articles

- Surgical management of Parkinsonism. *Illinois Medical Journal*, 136:637-30.

NURSING

ALYN, IRENE, Assistant Professor

Books

- Saunders tests for self-evaluation of nursing competence. W. B. Saunders Co., Philadelphia, 282 pp.

BERGERSEN, BETTY, Associate Professor

Books Edited

- Current concepts in clinical nursing (Vol. II). C. V. Mosby Co., St. Louis, 361 pp.
- Pharmacology in nursing (11th ed.). *Ibid.*, 695 pp.

BIRCHER, ANDREA U., Assistant Professor

Articles

- On thinking patterns. In *Fourth nursing research conference*, ed. by S. J. Gordon, and J. E. Notter. American Nurses' Association, New York, pp. 205-48.
- Further work on thinking patterns. *Ibid.*, pp. 249-70.

LEVY, LEO, Associate Professor

- See Preventive Medicine and Community Health.

MULLANE, MARY K., Professor and Dean

Articles

- Nursing faculty roles and functions in the large university setting. *Memo to Members, Council of Baccalaureate and Higher Degree Programs*, National League for Nursing, New York, pp. 1-4.

RUNNERSTROM, LILLIAN, Professor

Articles

- The effectiveness of nurse-midwifery in a supervised hospital environment. *Bulletin of the American College of Nurse-Midwives*, 14, 2:40-52.

Midwifery and the nursing profession. *The Midwife in the United States*, Josiah Macy Jr. Foundation, New York, pp. 89-93.

Bulletins and Technical Reports

- Assignment report: Taiwan provincial junior college. World Health Organization, Regional Office for the Western Pacific, Manila, Philippines, 21 pp.

STOKES, GERTRUDE A., Professor

Books Edited

- The role of psychiatric nurses in community mental health practice: a giant step. Faculty Press, Inc., New York, 152 pp.

WILLIAMS, BARBARA P., Assistant Professor

Articles

- Problems and life style of severely burned man. In *Current concepts in clinical nursing*, vol. II, ed. by Betty S. Bergersen, *et al.*, C. V. Mosby Co., St. Louis, pp. 63-75.

OBSTETRICS AND GYNECOLOGY

GOERING, RALPH W., Assistant Professor

Reviews

- Fertility and contraception in the human female, by J. A. Loraine and E. T. Bell. *American Journal of Obstetrics and Gynecology*, 103, 8:1175-76.

GOODMAN, HAROLD S., Associate Professor

Reviews

- Ethical issues in medicine: the role of the physician in today's society, by E. Fuller Torrey. *American Journal of Obstetrics and Gynecology*, 104, 2:295-97.

HAMILTON, LEWIS A., Assistant Professor

Reviews

- Novak's textbook of gynecology, by E. R. Novak, G. S. Jones, and H. W. Jones. *American Journal of Obstetrics and Gynecology*, 105, 6:994-96.

MENGERT, WILLIAM F., Professor Emeritus

Articles

- The obstetric-gynecologic residency system in America today. *Obstetrics and Gynecology*, 33, 3:438-42.

With R. C. Burchell, R. W. Blumstein, J. L. Daskal

- Pregnancy after bilateral ligation of the internal iliac and ovarian arteries. *Obstetrics and Gynecology*, 34, 5:664-66.

With R. C. Burchell

- Etiology of premature separation of the normally implanted placenta. *American Journal of Obstetrics and Gynecology*, 104, 6: 795-98.

WYNN, RALPH M., Professor and Head of Department

Books

- Fourth conference on fetal homeostasis. Appleton-Century-Crofts, New York, 304 pp.

Articles

- Immunological protection of the placenta. In

Fourth Conference on Fetal Homeostasis, ed. by Ralph M. Wynn, Appleton-Century-Crofts, New York, pp. 261-69.

Premature rupture of the membranes. *Chicago Medicine*, 72:39.

Noncellular components of the placenta. *American Journal of Obstetrics and Gynecology*, 103, 5:723-39.

With I. Sawaragi

Ultrastructural localization of metabolic enzymes during the human endometrial cycle. *Obstetrics and Gynecology*, 34, 1:50-61.

Effects of intrauterine and oral contraceptives on ultrastructure of the human endometrium. *Journal of Reproduction and Fertility, Supp.* 8:45.

With J. R. Corbett

Ultrastructure of the canine placenta and amnion. *American Journal of Obstetrics and Gynecology*, 103, 6:878-87.

Reviews

Intra-uterine development, by Allan C. Barnes. *American Journal of Obstetrics and Gynecology*, 103, 2:302-04.

Diagnosis and treatment of fetal disorders, by Karlis Adamsons. *Laboratory Management*, 7:41-42.

Bulletins and Technical Reports

Second report on the oral contraceptives. Advisory Committee on Obstetrics and Gynecology of the Food and Drug Administration, Washington, D.C., 86 pp.

OPHTHALMOLOGY

DEUTSCH, WILLIAM E., Clinical Assistant Professor

Reviews

Injuries of the eye, the lids and the orbit, by David Paton, Morton F. Goldberg. *Medical Opinion and Review*, 5, 5:116.

FRENKEL, MARCEL, Clinical Associate Professor

Articles

Blindness due to steroid induced glaucoma. *Illinois Medical Journal*, 135:160.

Reviews

La papille optique, by G. Bonamour, M. Bonnet, P. Bregeat, P. Juge. *American Journal of Ophthalmology*, 67, 4:608-09.

GOLDBERG, MORTON F., Professor and Head of Department

Books Edited

With S. L. Fine

Symposium on the treatment of diabetic retinopathy. U.S. Public Health Service Publication No. 1890, Washington, D.C., 913 pp.

Articles

With S. J. Ryan

Intercalary staphyloma in Marfan's Syndrome. *American Journal of Ophthalmology*, 67, 3:329-35.

HUGHES, WILLIAM F., Professor

Articles

Treatment of herpes simplex keratitis. *American Journal of Ophthalmology*, 67, 3:313-28.

KRONFELD, PETER C., Professor Emeritus

Articles

Jacques Daviel: the inventor of cataract extraction. *Survey of Ophthalmology*, 14, 2: 118-22.

LEVINE, ROBERT A., Clinical Assistant Professor

Articles

Infection of the orbit by an atypical mycobacterium. *Archives of Ophthalmology*, 82, 5:608.

McDONALD, JAMES E., Associate Professor

Articles

Surface phenomena of the tear film. *American Journal of Ophthalmology*, 67, 1:56-64.

RABB, MAURICE F., Assistant Professor

Articles

With M. Fine

Penetrating keratoplasty in interstitial keratitis. *American Journal of Ophthalmology*, 67, 6:907-17.

ZEKMAN, THEODORE N., Clinical Associate Professor

Articles

With Ethel H. Davis

Shakespeare's ophthalmologic vocabulary and concepts. *American Journal of Ophthalmology*, 68, 1:1-9.

ORAL ANATOMY

Du BRUL, E. LLOYD, Professor and Head of Department

Articles

Design for living. In *Biomechanics*, ed. by Bootzin and Muffley, Plenum Press, New York, pp. 5-13.

ORAL DIAGNOSIS

COHEN, LAWRENCE, Professor and Head of Department

Articles

Isolated trigeminal neuropathy. *Journal of Oral Medicine*, 23:107.

Oral manifestations of systemic diseases in the adolescent. *Dental Clinics of North America*, 13:329.

With K. N. Tan, H. Medak

Focal epithelial hyperplasia in a Mexican Indian. *Archives of Dermatology*, 100:474-77.

DOUGLAS, BRUCE L., Professor

Articles

Dental care in the hospital. *Journal of Hospital Dental Practice*, 3, 3:50-51.

Our greatest challenge: a grave warning from Washington. *New York State Dental Journal*, 35, 9:556-57.

With H. J. Greene

Cleidocranial dysostosis: report of case. *Journal of Oral Surgery*, 27:1.

With Sylvia B. Coppersmith

A study of the use of topical fluoride applications. *Illinois Dental Journal*, 38, 2:77-81.

MEDAK, HERMAN, Professor

Articles

Definitive cytopathologic characteristics of primary oral melanoma. *Oral Surgery, Oral Medicine and Oral Pathology*, 27, 2: 237-46.

The cytology of vasicular conditions affecting the oral mucosa: pemphigus vulgaris. *ACTA Cytologica*, 14, 1:11-21.

With P. Burlakow, Elizabeth A. McGrew,
R. Tiecke

The cytology of vesicular conditions affecting the oral mucosa: part 2. keratosis follicularis. *ACTA Cytologica*, 13, 7:407-15.

With K. N. Tan, L. Cohen

Focal epithelial hyperplasia in a Mexican Indian. *Archives of Dermatology*, 100: 474-77.

SECTER, IRVING I., Associate Professor

Articles

Hypnoanesthesia-hypnoanalgesia. *British Journal of Clinical Hypnosis*, 1, 1:26-28.

TAN, KIAM NAM, Instructor

Articles

Focal epithelial hyperplasia in a Mexican Indian. *Archives of Dermatology*, 100: 474-77.

TIECKE, RICHARD S., Professor and Visiting Lecturer

Articles

With P. Burlakow, H. Medak, E. McGrew

The cytology of vesicular conditions affecting the oral mucosa: part 2. keratosis follicularis. *ACTA Cytologica*, 13, 7:407-15.

The cytology of vesicular conditions affecting the oral mucosa: pemphigus vulgaris. *ACTA Cytologica*, 14, 1:11-21.

ORAL AND MAXILLOFACIAL SURGERY

LASKIN, DANIEL M., Professor and Associate Head of Department

Articles

Advanced or applied basic science? Editorial. *Journal of Oral Surgery*, 27:611.

Quality control in oral surgery programs. Editorial. *Ibid.*, 27:930.

Derangements of temporomandibular joint. Editorial. *Journal of the American Dental Association*, 79:92.

Indications and contraindications for removal of impacted third molars. *Dental Clinics of North America*, 13:919-28.

Etiology of pain-dysfunction syndrome. *Journal of the American Dental Association*, 79:147-53.

With B. G. Sarnat

Diseases of the temporomandibular joint. In *Diagnosis of diseases of the mouth and jaws*, ed. by Zegarelli, Kutscher, and Hyman, Lea & Febiger, Philadelphia, pp. 129-55.

With R. M. Zoller, Jr.

Growth of the zygomatic-maxillary suture in pigs after sectioning the zygomatic arch. *Journal of Dental Research*, 48:573-78.

With G. I. Baker

Histochemical characterization of the muscles of mastication. *Ibid.*, 48, 1:97-104.

With V. N. Divenfeld, M. Sabin

Basal cell naevus syndrome: report of case. *Journal of the Canadian Dental Association*, 35:545-50.

With C. S. Greene, M. D. Lerman,
H. D. Sutcher

The tmj pain-dysfunction syndrome: heterogeneity of the patient population. *Journal of the American Dental Association*, 79: 1168-72.

With N. Rotblat

Radiocontrast lesions of the mandible: differ-

ential diagnosis and report of case. *Journal of Oral Surgery*, 27:820-25.

With D. S. Evaskus, A. V. Kroeger

Penetration of lincomycin, penicillin and tetracycline into serum and bone. *Proceedings of Society of Experimental Biology and Medicine*, 130-A:89-91.

ORAL PATHOLOGY

ALVARES, OLAV F., Instructor

Articles

With E. Oleck, L. B. Silverglade

Lingual mandibular bone cavity concomitant with a dentigerous cyst. *Oral Surgery, Oral Medicine and Oral Pathology*, 27, 2:252-56.

GRAND, NICHOLAS G., Professor

Articles

With P. Goland, F. J. Green, B. F. Booker

Immunofluorescence microscopy of cyanurated tissues. *Stain Technology*, 44, 5:227-33.

IQBAL, MUHAMMAD, Assistant Professor

Articles

With J. T. Dingle, T. Moore, I. M. Sharman

Nutrition and lysosomal activity. The effect of dietary cod-liver oil on the distribution of polyunsaturated fatty acids in the kidney lysosomes of rats receiving deficient or adequate intakes of vitamin E. *British Journal of Nutrition*, 23:31-39.

KRAUCUNAS, EUGENIA, Research Assistant

Articles

With J. A. Yaeger

Fine structure of the resorptive cells in the teeth of frogs. *The Anatomical Record*, 164, 1:1-14.

MacDONALD, D. GORDON, Visiting Associate Professor

Articles

Smooth muscle tumors of the mouth. *British Journal of Oral Surgery*, 6:207-14.

With R. M. Rowan, G. S. Blair

Sarcoidosis involving the mandible. *British Dental Journal*, 126:168-71.

MEYER, JULIA, Professor

Articles

With E. P. Barrington

Regional differences in gradients of dry residue density in oral epithelia of the rat: A quantitative study. *Archives of Oral Biology*, 14:1085-99.

With C. P. Osmanski

Ultrastructural changes in buccal and palatal mucosa of zinc deficient rats. *The Journal of Investigative Dermatology*, 53, 1:14-28.

With G. A. Ullmann

Alveolar bone response in the older rat. *Journal of Gerontology*, 24, 2:152-54.

RIJHSINGHANI, KOSHILYA, Research Associate

Articles

With M. Greenblatt

Comparative cytopathologic alterations induced by alkylnitrosamines in nasal epithelium of the Syrian hamster. *Journal of the National Cancer Institute*, 42:421-33.

SILVERGLADE, LEE B., Associate Professor

Articles

With O. F. Alvares

Lingual mandibular bone cavity concomitant with a dentigerous cyst. *Oral Surgery, Oral Medicine and Oral Pathology*, 27, 2:252-56.

WATERHOUSE, JOHN P., Professor and Head of Department

Articles

Effects of endocrine secretions on the periodontium and its constituent tissues. In *Biology of the periodontium*, ed. by Melcher and Bowen, Academic Press, New York, pp. 453-583.

With C. A. Squier

Measurements from electron micrographs of organelle size in relation to their shape: a refinement applied to the epidermal melanosome and basal lamella. *Journal of Microscopy*, 89, Pt. 2:195-204.

ORTHODONTICS

BRODIE, ALLAN G., Professor Emeritus

Articles

The three arcs of mandibular movement as they affect the wear of teeth. *Angle Orthodontist*, 39:217-29.

ENGEL, MILTON B., Professor

Articles

Localization of tetracycline in rat parotid and sublingual glands. *Journal of Dental Research*, 48:932-37.

With N. R. Joseph, H. R. Catchpole

Extracellular electrolyte balance and aging. *Gerontology*, 15:31-51.

With Elsa C. Seiton

Reactive dyes as vital indicators of bone growth. *American Journal of Anatomy*, 126:373-92.

SCHNEIDER, BERNARD J., Associate Professor

Articles

With G. A. Ullmann, J. Meyer

Experimental studies on the interrelations of condylar growth and alveolar bone formation III. Response to relief of occlusion in aged rats. *Angle Orthodontist*, 39:83-92.

ORTHOPAEDIC SURGERY

BARMADA, RIAD, Assistant Professor

Articles

With R. D. Ray

The use of radioisotopes in the osseous and cartilaginous system. In *Handbook of radioactive nuclides*, ed. by Yen Wang, The Chemical Rubber Co., Cleveland, Ohio, pp. 466-76.

FOSSIER, C. H., Instructor

Articles

With W. F. Hejna

Surgical aspects of metastatic bone disease. *Illinois Medical Journal*, 135:704-09.

GALANTE, JORGE O., Assistant Professor

Articles

With A. B. Schultz

Measurement of forces exerted in the correction of idiopathic scoliosis using three-

component dynamometers. *Journal of the Society for Experimental Stress Analysis, Experimental Mechanics*, 9:419-23.

With R. A. Lueck, W. Rostoker, R. D. Ray

Development of an open pore metallic implant to permit attachment to bone. *Surgical Forum*, 20:456-57.

GIRZADAS, DANIEL V., Clinical Instructor

Articles

With M. L. Clayton

Limitations of the use of metallic prosthesis in the rheumatoid hand. *Clinical Orthopaedics and Related Research*, 67:127-32.

HAMILTON, ROBERT C., Associate

Articles

With R. J. Pellicore, S. Mier, C. N. Lambert

Experience with the Hepp-Kuhn below elbow prosthesis: a follow-up report. *Inter-Clinic Information Bulletin*, 8, 6:9-14.

With C. N. Lambert, R. J. Pellicore

The juvenile amputee program: its social and economic value. A follow-up study after the age of twenty-one. *The Journal of Bone and Joint Surgery*, 51-A, 6:1135-38.

HEJNA, WILLIAM F., Clinical Assistant Professor

Articles

With C. H. Fossier

Surgical aspects of metastatic bone disease. *Illinois Medical Journal*, 135:704-09.

JACOBS, RICHARD L., Assistant Professor

Articles

Supracondylar fracture of the humerus in children. *Yearbook of Orthopaedics, Traumatic and Plastic Surgery*, 132:696.

LAMBERT, CLAUDE N., Clinical Professor

Articles

Orthopedic and prosthetic considerations. In *Limb development and deformity, problems of evaluation and rehabilitation*, ed. by Chester A. Swinyard, M. D., Charles C. Thomas, Springfield, Illinois, pp. 391-95.

With R. C. Hamilton, R. J. Pellicore

The juvenile amputee program: its social and economic value. A follow-up study after the age of twenty-one. *Journal of Bone and Joint Surgery*, 51-A, 6:1135-38.

With R. J. Pellicore, R. C. Hamilton, S. Mier

Experience with the Hepp-Kuhn below elbow prosthesis: a follow-up report. *Inter-Clinic Information Bulletin*, 8, 6:9-14.

LUECK, ROGER A., Instructor

Articles

With J. Galante, W. Rostoker, R. D. Ray

Development of an open pore metallic implant to permit attachment to bone. *Surgical Forum*, 20:456-57.

PELLICORE, RAYMOND J., Clinical

Assistant Professor

Articles

With R. C. Hamilton, S. Mier, C. N. Lambert

Experience with the Hepp-Kuhn below elbow prosthesis: a follow-up report. *Inter-Clinic Information Bulletin*, 8, 6:9-14.

With C. N. Lambert, R. C. Hamilton

The juvenile amputee program: its social and economic value. A follow-up study after the age of twenty-one. *The Journal of Bone and Joint Surgery*, 51-A, 6:1135-38.

RAY, ROBERT D., Professor and Head of Department

Articles

With R. Barmada

The use of radioisotopes in the osseous and cartilaginous system. In *Handbook of radioactive nuclides*, ed. by Yen Wang, The Chemical Rubber Co., Cleveland, Ohio, pp. 466-76.

With C. T. Brighton, L. W. Soble, K. E. Kuettner

In vitro epiphyseal-plate growth in various oxygen tensions. *The Journal of Bone and Joint Surgery*, 51-A, 7:1383-96.

With R. A. Lueck, J. O. Galante, W. Rostoker

Development of an open pore metallic implant to permit attachment to bone. *Surgical Forum*, 20:456-57.

SIEGEL, IRWIN M., Clinical Assistant Professor

Books

First aid without fear. The Hadley School for the Blind, Winnetka, Illinois, 106 pp.

Articles

Herpetic sciatica. *Surgery*, 66, 4:693-94.

Physical therapy for the blind child. *The Journal of the American Physical Therapy Association*, 49, 12:1357-63.

The biomechanics of posture, applications to mobility in the blind. *Parameters of Posture and Mobility in the Blind*, School of Graduate Studies, Western Michigan University, Kalamazoo, Michigan, pp. 47-51.

OTOLARYNGOLOGY

ANDREWS, ALBERT H., JR., Professor and Head of Department

Articles

With J. C. Ross, S. B. Osenar

Significance of water in exhaled air. *Annals of Otolaryngology, Rhinology and Laryngology*, 78: 499-510.

AUSTIN, DAVID F., Assistant Professor

Articles

Anatomy and embryology of the ear. In *Diseases of the nose, throat and ear*, ed. by John J. Ballenger, Lea & Febiger, Philadelphia, pp. 501-53.

Types and indications of staging. *A. M. A. Archives of Otolaryngology*, 89:51-58.

Modern diagnosis and treatment of acoustic neuroma. *American Journal of Medical Science*, 251:468-74.

Discussion of acoustic neuroma. *Ibid.*, 83: 105-06.

BUCKINGHAM, RICHARD A., Clinical Professor

Books

With W. Becker, P. H. Holinger, G. W. Korting, F. L. Lederer

Atlas of otorhinolaryngology and bronchoesophagology. W. B. Saunders Co., Philadelphia, 315 pp.

Articles

With J. L. Ferrer

Middle ear cholesteatoma—etiology, relation to chronic adhesive otitis media, and treatment: an otophotographic study. *Transactions American Academy of Ophthalmology and Otolaryngology*, 73:873-85.

With Galdino E. Valvassori

Tomografía y ototografía de los colesteatomas otoneurorradiología moderne actus dol I cursoimpasio. *Internacional de Otoneuroradiología Editoria Facta*, Valencia, pp. 119-27.

FRIEDBERG, STANTON A., Clinical Professor

Articles

With R. Eisenstein, L. J. Wallner

Giant cell lesions involving the nasal accessory sinuses. *Laryngoscope*, 79:763-76.

HOLINGER, PAUL H., Professor

Books

With W. Becker, R. A. Buckingham, G. W. Korting, F. L. Lederer

Atlas of otorhinolaryngology and bronchoesophagology. W. B. Saunders Co., Philadelphia, 315 pp.

Articles

Neonatal respiratory tract obstruction. In *Advances in cardiopulmonary diseases*, vol. IV, ed. by A. L. Banyai and B. L. Gordon, Year Book Medical Publishers, Inc., Chicago, pp. 285-98.

Abnormalities of larynx and tracheobronchial tree. In *Pediatric surgery* (3rd ed.), ed. by O. Swenson, Appleton-Century Crofts, New York, pp. 290-300.

Tracheostomy. *Ibid.*, pp. 301-06.

Klinik und therapie der hypopharynx- und oesophaguserkrankungen, HNO, Band 17, Heft 5, Germany, pp. 129-32.

The esophagus. In *Textbook of pediatrics* (9th ed.), ed. by Nelson, Vaughan and McKay, Year Book Medical Publishers, Inc., Chicago, pp. 298-304.

Tracheostomy. In *Pediatric surgery* (2nd ed.), ed. by Mustard, Ravitch, Snyder, Welch and Benson, Year Book Medical Publishers, Inc., Chicago, pp. 298-304.

Endoscopy. *Ibid.*, pp. 492-539.

With J. A. Schild

Endoscopic techniques in children. In *Pediatric surgery* (3rd ed.), ed. by O. Swenson, Appleton-Century Crofts, New York, pp. 283-89.

The Zenker's (hypopharyngeal) diverticulum. *Annals of Otolaryngology, Rhinology and Laryngology*, 78:680-88.

With F. L. Lederer, B. J. Soboroff

The TNM classification of cancer of the larynx and pharynx. *Otolaryngologic Clinics of North America*, October, pp. 489-95.

With J. W. Curtin

Automobile fractures of the larynx and upper trachea. *Bulletin de la Societe Internationale de Chirurgie*, 28:1.

LEDERER, FRANCIS L., Professor Emeritus

Books

With W. Becker, R. A. Buckingham, G. W. Korting, P. H. Holinger

Atlas of otorhinolaryngology and bronchoesophagology. W. B. Saunders Co., Philadelphia, 315 pp.

Articles

That they shall see, hear and speak: address of the president. *Transactions American Academy of Ophthalmology and Otolaryngology*, 73:9-16.

With B. J. Soboroff, P. H. Holinger

The TNM classification of cancer of the larynx and pharynx. *Otolaryngologic Clinics of North America*, October, pp. 489-95.

SCHILD, JOYCE ANNA, Clinical Assistant Professor

Articles

With P. H. Holinger

Endoscopic techniques in children. In *Pediatric surgery*, Third edition, ed. by O. Swenson, Appleton-Century Crofts, New York, pp. 283-89.

The Zenker's (hypopharyngeal) diverticulum. *Annals of Otolaryngology, Rhinology and Laryngology*, 78:680-88.

SKOLNIK, EMANUEL, M., Professor

Articles

With J. M. Mills, M. E. Tardy, Jr.

Parotid duct transposition in xerophthalmia. *Archives of Otolaryngology*, 89:661-64.

SOBOROFF, BURTON J., Professor

Articles

With P. H. Holinger, F. L. Lederer

The TNM classification of cancer of the larynx and pharynx. *Otolaryngologic Clinics of North America*, October, pp. 489-95.

TARDY, M. EUGENE, JR., Assistant Professor

Articles

With N. J. Pastorek, L. T. Tenta

Mattress suture otoplasty: indications and limitations. *Laryngoscope*, 79:961-68.

With J. M. Mills, E. M. Skolnik

Parotid duct transposition in xerophthalmia. *Archives of Otolaryngology*, 89:661-64.

TENTA, LOUIS T., Associate Professor

Articles

With N. J. Pastorek, M. E. Tardy

Mattress suture otoplasty: indications and limitations. *Laryngoscope*, 79:961-68.

With F. L. Lederer

The nasopharyngeal examination. *Hospital Medicine*, 5:23-30.

With Rita Glass

Is anybody listening? Can anybody hear? *Modern Hospital*, 113:112-14.

TOROK, NICHOLAS, Professor

Articles

Nystagmus frequency verses slow phase velocity in rotatory and caloric nystagmus. *Annals of Otolaryngology, Rhinology and Laryngology*, 78:625-34.

Differential caloric stimulations in vestibular diagnosis. *A.M.A. Archives of Otolaryngology*, 90:51-57.

Effects of arousal upon vestibular nystagmus. *Advances in Otolaryngology, Rhinology and Laryngology*, Karger, Basel, Switzerland, 17: 76-89.

Vestibular evaluation of the acoustic tumor. *A.M.A. Archives of Otolaryngology*, 89: 290-93.

Reviews

Hals-Nasen-Ohren Heilkunde: Ein Kompendium für Studentem und Ärzte, by Dr. Fritz Zollner. *A.M.A. Archives of Otolaryngology*, 90:365.

Aktuelle Oto-Rhino-Laryngologie: No. 1., ed. by Becker, Boeninghaus, Leicher, Mittermaier, Naumann and Theissing. *Ibid.*, p. 542.

PATHOLOGY

BARRON, S. STEVEN, Clinical Assistant Professor

Articles

With W. R. Best, C. Mason, H. G. Shepherd

Automated twelve-channel serum screening. I. What is normal? *The Medical Clinics of North America*, 53, 1:175-87.

CATCHPOLE, HUBERT R., Research Professor

Articles

Hormonal mechanisms during pregnancy and parturition. In *Reproduction in domestic animals*, ed. H. H. Cole and P. T. Cupps, Academic Press, New York, pp. 415-40.

With N. R. Joseph, M. B. Engel

Extracellular electrolyte balance and aging. *Gerontologia*, 15:31-51.

CHOMET, BERNHARD, Professor

Articles

With B. M. Gach

Demonstration of esophageal varices in museum specimens. *American Journal of Clinical Pathology*, 51, 6:793-94.

Training in clinical pathology. *Pathologist*, 23, 12:395-400.

With J. Valaitis, Elizabeth A. McGrew, N. Correl, J. Head

Bronchogenic carcinoma *in situ* in asymptomatic high risk population of smokers. *Journal of Thoracic and Cardiovascular Surgery*, 57:325-32.

COOGAN, PHILIP S., Assistant Professor

Articles

With H. W. Casey, D. B. Skinner, G. L. Anstadt

Acute and long-term effects of direct mechanical ventricular assistance in the dog. *Archives of Pathology*, 87:423.

With J. Friese, H. Maganini, R. Berardi, G. M. Hass

Purification of growth inhibitors in ultrafiltrate of chick embryo extract. *Laboratory Investigation*, 20:371.

With F. Morris

An improved histologic technic for studying primate retina. *School of Aerospace Medicine, Technical Report* 69:53.

With H. W. Casey, J. E. Traynor

Late effects of 32 McV proton irradiation in primates. *Radiation Research*, 39:634.

With D. E. Henson, H. Najafi, R. Callaghan, O. C. Julian, R. Eisenstein

Myocardial lesions following open heart surgery. *Archives of Pathology*, 88:423.

ECKNER, FRIEDRICH A. O., Lecturer

Articles

With B. W. Brown, E. Overill, S. Glagov

Alteration of the gross dimensions of the heart and its structures by formalin fixation: a quantitative study. *Virchows Archiv Abteilung A, Pathologische Anatomie*, 346: 318-29.

With B. H. Riebe, P. V. Moulder, E. H. Blackstone

Polysaccharide synthesis in tissue sections (evaluation of methods as an example of quality control in histochemistry). *Histochemie*, 19:340-54.

With B. W. Brown, D. L. Davidson,
S. Glagov

Dimensions of normal human hearts after standard fixation by controlled pressure coronary perfusion. *Archives of Pathology*, 88:497-507.

With M. Lev, R. R. Liberthson,

J. R. Kirkpatrick, R. A. Arcilla

Single (primitive) ventricle. *Circulation*, 39: 577-91.

EISENSTEIN, REUBEN, Professor

Articles

With H. Battifora, J. Schild

Rhabdomyoma of larynx: ultrastructural study and comparison with granular cell myoblastoma. *Cancer*, 23:193.

With J. M. Schrodt, R. D. Ray, K. Kuettner

Lysozyme in embryonic cartilage: electron studies. *Surgical Forum*, 19:401.

With H. Battifora, H. Ellis, J. Rosato,

J. Hobart

Effects of sucrose and dactinomycin on hepatic acid hydrolases. *Archives of Pathology*, 81:514.

With K. Kuettner

Studies on cartilage lysozyme. *Presbyterian-St. Luke's Hospital Medical Bulletin*, 1: 130.

With D. Henson, H. Najafi, H. Javid, R. Dye,
and others

Myocardial lesions following open heart surgery. *A.M.A. Archives Pathology*, 88:423.

With H. Ellis, J. Rosato

In vitro studies of vitamin D-induced aortic calcification. *Proceedings of the Society for Experimental Biology and Medicine*, 132:58.

With S. Friedberg and L. Wallner

Giant cell lesions involving the nasal accessory sinuses. *Laryngoscope*, 72:763.

ESHBAUGH, DOROTHY E., Clinical

Associate Professor

Articles

With R. Frank, W. A. Alpern

Oral contraception started early in the puerperium. *American Journal of Obstetrics and Gynecology*, 103:112-20.

GREENSPON, SEYMOUR G., Research

Associate

Articles

With C. A. Krakower

The immunologic properties of basement membrane. In *Diabetes, proceedings 6th congress international diabetes foundation*, ed. by Östman and Milner, Excerpta Medica Foundation, Amsterdam, pp. 595-605.

With C. A. Krakower, J. Manaligod

Glomerular changes induced by extrarenal foci of inflammation and by polymorphonuclear cell lysates. *American Journal of Pathology*, 56:533-51.

HABEGGER, JAMES E., Clinical Assistant

Professor

Articles

Blood Banking. *Medical Trial Technique Quarterly*, June, pp. 1-20.

HASS, GEORGE M., Professor

Articles

With H. A. Battifora, P. A. McCreary,

G. H. Laing

Chronic granulocytic leukemia and malignant

thymic lymphoma in magnesium-deficient rats. *American Journal of Pathology*, 55: 11a.

With P. Coogan, J. Friese, H. Maganini,
R. S. Berardi

Purification of growth inhibitors in ultrafiltrate of chick embryo extract. *Laboratory Investigation*, 20:371-76.

With D. E. Henson, R. A. Scott,

E. McClain, A. Hennings

Influence of cirrhosis on production of atheroarteriosclerosis and thromboarteritis with vitamin D and dietary cholesterol. *American Journal of Pathology*, 57:405-27.

KRAKOWER, CECIL A., Professor and

Head of Department

Articles

With S. H. Greenspon

The immunologic properties of basement membrane. In *Diabetes, proceedings 6th congress international diabetes foundation*, ed. by Östman and Milner, Excerpta Medica Foundation, Amsterdam, pp. 595-605.

With I. Friedman, R. A. Harvey

Clinical pathologic conference. *American Heart Journal*, 77:822-29.

With J. Manaligod, S. H. Greenspon

Glomerular changes induced by extrarenal foci of inflammation and by polymorphonuclear cell lysates. *American Journal of Pathology*, 56:533-51.

Reviews

Textbook of immunopathology, ed. Miescher and Müller-Eberhard. *Journal of the American Medical Association*, 209:564.

LEROY, ELIE P., Professor

Articles

The blood-air barrier in desquamative interstitial pneumonia (D.I.P.). *Virchows Archiv Abteilung A Pathologische Anatomie*, 348:117-30.

With N. F. J. Konietzko, R. W. Carton

Causes of death in patients with bronchiectasis. *American Review of Respiratory Disease*, 100:852-58.

LEV, MAURICE, Lecturer

Articles

Certain anatomic cardiac data and their functional import. In *Clinical cardiopulmonary physiology*, ed. by Gordon, Grune and Stratton, New York, pp. 3-12.

With H. J. A. Rimoldi, R. Piava, R. A. Arcilla

The quantitative anatomy of simple complete transposition. *American Journal of Cardiology*, 23:409-16.

With R. R. Liberthson, J. R. Kirkpatrick,

F. A. O. Eckner, R. A. Arcilla

Single (primitive) ventricle. *Circulation*, 39: 577-91.

With R. Okada, S. Glagov

Relation of shunt flow and right ventricular pressure to heart valve structure in atrial septal defect. *American Heart Journal*, 78:781-95.

With J. P. Seidon, S. Lahiri, A. P. Fishman

Heart and circulation of the African lungfish. *Circulation Research*, 25:23-38.

With D. Aaronson, R. Patterson, J. Wennemark

Biologic effects of heterologous antisera to canine heart. *International Archives of Allergy*, 36:523-29.

With R. Harris, S. Siew

Smoldering myocarditis with intermittent complete A-V block and Stokes-Adams syndrome. A histopathological and electrocardiographic study of "Trifascicular" bundle branch block. *American Journal of Cardiology*, 24:880-89.

LEVINSON, SAMUEL A., Professor Emeritus

Books

With R. P. MacFate

Clinical laboratory diagnosis (7th edition). Lea & Febiger, Philadelphia, 1323 pp.

Reviews

Pictorial history of psychology and psychiatry, by A. A. Roback and T. Kiernan. *Journal of Forensic Sciences*, 14, 3:409-10.
Atlas of legal medicine, by T. Watanabe. *Journal of Forensic Sciences*, 14, 2:261.

McCLAIN, ELDON D., Assistant

Articles

With G. M. Hass, D. E. Henson, R. A. Scott, Anne Hemmens

Influence of cirrhosis on production of atherosclerosis and thromboarteritis with vitamin D and dietary cholesterol. *American Journal of Pathology*, 57:405-29.

McGREW, ELIZABETH A., Professor

Articles

With H. Medak, P. Burlakow, R. B. Jans

Definitive cytopathologic characteristics of primary oral melanoma. *Oral Surgery, Oral Medicine and Oral Pathology*, 27:237-46.

With J. Valaitis, B. Chomet, N. Correll, J. Head

Bronchogenic carcinoma *in situ* in asymptomatic high-risk population of smokers. *Journal of Thoracic and Cardiovascular Surgery*, 57:325-32.

With P. Burlakow, H. Medak, R. Tiecke

The cytology of vesicular conditions affecting the oral mucosa: part 2, keratosis follicularis. *Acta Cytologica*, 3:407-15.

The cytology of vesicular conditions affecting the oral mucosa: pemphigus vulgaris. *Acta Cytologica*, 14:11-21.

NERENBERG, SAMUEL T., Professor

Articles

With G. Pogojeff

A new rapid technique of tissue extraction for isoenzyme studies in normal and diseased tissues. *American Journal of Clinical Pathology*, 51:95-101.

Liebig condenser disc electrophoresis. *Ibid.*, 51:229-37.

Laboratory diagnosis of specific organ diseases by use of combined serum isoenzyme patterns. *Ibid.*, 51:728-40.

Gamma globulin studies of biopsy material and serum in solitary plasmacytoma of the spine. *Cancer*, 24:762-69.

PIRANI, CONRAD L., Clinical Professor

Articles

With E. Rosenmann, A. Kanter, R. A. Bacani, V. E. Pollak

Fatal late postpartum intravascular coagulation with acute renal failure. *American Journal of Medical Science*, 257:259-73.

With M. Ort, L. Salinas-Madrigal, J. Metcoff

Some clinical and morphological features of

the acute phase of acute glomerulonephritis in children. *Acta Universitatis Carolinae Medica*, 15:207-25.

With V. E. Pollak

Renal histologic findings in systemic lupus erythematosus. *Mayo Clinic Proceedings*, 44:630-44.

RESSLER, NEWTON, Associate Professor

Articles

Tissue characteristic forms of adenosine deaminase. *Clinica Chimica Acta*, 24:247-51.

Control of cellular processes by the coupling of resort energy to hydrogen transfer reactions. *Journal of Theoretical Biology*, 23:425-40.

With R. L. Miller

The activity of serum deoxycytidylate deaminase in various diseases. *Clinica Chimica Acta*, 26:409-12.

A simple and sensitive method for the measurement of deoxycytidylate deaminase. *Clinical Chemistry*, 15:575-81.

RING, ALVIN M., Clinical Assistant Professor

Books

Laboratory correlation manual. Charles C. Thomas Co., Springfield, Illinois, 160 pp.

ROWLATT, URSULA F., Assistant Professor

Articles

Cockayne's syndrome. Report of case with necropsy findings. *Acta neuropathologica*, Berlin, 14:52-61.

SMITH, ROGER D., Associate Professor

Articles

With S. P. Gotoff, E. W. Isaacs, R. C. Muehrcke

Serum beta₂e globulin in glomerulonephritis and systemic lupus erythematosus. *Annals of Internal Medicine*, 71:327-33.

STERN, KURT, Professor Emeritus

Articles

With E. B. Titchener, Arlene Duwelius

Phagocytic activity in mice treated with isogenic subcellular fractions. *Life Sciences*, 8:821-30.

Storage of rimino compound B. 663 in tumor-free and tumor-bearing mice. *Journal of Reticuloendothelial Society*, 6:24-33.

Inhibition of immune responses to sheep red cells in rats pre-immunized with heterophilic antigen. *Clinical and Experimental Immunology*, 4:253-63.

With A. Goldfeder

Radiation studies on mice of an inbred tumor-resistant strain. VI. Immune responses to heterologous red cells of non-irradiated and irradiated mice. *International Archives of Allergy and Applied Immunology*, 35:504-13.

SWERDLOW, MARTIN A., Professor

Books Edited

Seminar on neoplasms of bone. American Society of Clinical Pathologists, Chicago, 80 pp.

Reviews

Liver Biopsy Interpretation, by Peter J. Scheuer. *Journal of the American Medical Association*, 208:2477-78.

Morphology of the liver, by Hans Elias and Joseph C. Sherrick. *Ibid.*, 211:1192.

Amyloidosis, by E. Mandema et al. *Ibid.*, 210:729-30.

THOMPSON, J. ROBERT, Clinical Professor

Articles

With S. D. Entin

Primary extraskeletal chondrosarcoma; report of a case arising in conjunction with extra-pleural lucite ball plombage. *Cancer*, 23: 936-39.

With Yoshiharu Takimura

Laboratory diagnosis of mycobacteria. *Hospital Topics*, 47:77-86.

VALAITIS, JONAS, Clinical Associate Professor

Articles

With Elizabeth A. McGrew, B. Chomet, N. Correll, J. Head

Bronchogenic carcinoma *in situ* in asymptomatic high-risk population of smokers. *Journal of Thoracic and Cardiovascular Surgery*, 57:325-32.

VYE, MALCOLM V., Assistant Professor

Articles

With D. A. Fischman, J. L. Hansen

Ultrastructural localization of adenosinetriphosphatase activity in skeleton muscle by calcium precipitation at high PH. *Virchow's Archiv B*, 3:307.

PEDIATRICS

GOTOFF, SAMUEL P., Associate Professor

Articles

The laboratory and the diagnosis of glomerulonephritis. *Medical Times*, 97:125.

With R. C. Muehrcke, A. K. Mandal, E. W. Isaacs, F. I. Volini

The clinical value of electron microscopy in renal disease. *Archives of Internal Medicine*, 124:170.

With E. W. Isaacs, R. C. Muehrcke, R. D. Smith

Serum Beta₂ globulin in glomerulonephritis and systemic lupus erythematosus. *Annals of Internal Medicine*, 71:327.

GROSSMAN, HERBERT J., Professor

Articles

Convulsive disorders in infants and children. *Illinois Medical Journal*, 153, 3:260-67.

HASTREITER, ALOIS R., Associate Professor

Articles

With C. V. Shah, M. K. Patel

Hemodynamics of complete atrio-ventricular canal and its evolution with age. *American Journal of Cardiology*, 24:325.

HONIG, GEORGE R., Associate Professor

Articles

With E. N. Forman, C. A. Johnson, R. A. Seeler, C. F. Abildgaard, I. Schulman

Administration of single doses of AHF (Factor VIII) concentrates in the treatment of hemophilic hemarthroses. *Pediatrics*, 43:26.

With B. Q. Rowan, R. G. Mason

Unequal synthesis of complementary globin chains of human fetal hemoglobin by the effect of L-O-methylthreonine. *Journal of Biological Chemistry*, 244:2027.

SCHULMAN, IRVING, Professor and Head of Department

Articles

With R. A. Seeler, E. N. Forman, J. F. Bolger, C. F. Abildgaard

Induction of intravascular coagulation and renal cortical necrosis in rabbits by simultaneous injection of thorotrast and endotoxin. *British Journal of Haematology*, 16:501.

With E. N. Forman, C. F. Abildgaard, J. F. Bolger, C. A. Johnson

Generalized Schwartzman reaction: role of the granulocyte in intravascular coagulation and renal cortical necrosis. *British Journal of Haematology*, 16:507.

With G. R. Honig, C. F. Abildgaard,

E. N. Forman, S. P. Gotoff, A. Lindley
Some properties of the anticoagulant factor of aged pooled plasma. *Thrombosis et Diathesis Haemorrhagica*, 22:151.

SERRATTO, MARIA E., Assistant Professor

Articles

With A. R. Hastreiter

Balloon atrial septostomy in congenital heart disease. *Medical Times*, 97:203.

PERIODONTICS

BARRINGTON, ERWIN P., Assistant Professor

Articles

With J. Meyer

Regional differences in gradients of dry residue density in oral epithelia of the rat: a quantitative study. *Archives of Oral Biology*, 14:1085-99.

PHARMACEUTICAL CHEMISTRY

BARNOTHY, MADELEINE F., Professor

Books Edited

Biological effects of magnetic fields. Plenum Press, New York, London, 314 pp.

Articles

With I. Sumegi

Effects of the magnetic field on internal organs and the endocrine system of mice. In *Biological Effects of Magnetic Fields*, ed. by Barnothy. Plenum Press, New York—London, pp. 103-26.

Abnormalities in organs of mice induced by a magnetic field. *Nature*, 221, 5177:270-71.

With Jenő Barnothy

Anomalous Hubble plot of quasi-stellar objects. *Nature*, 222, 5195:759-61.

Concentration of QSOs around $z=2$ redshift. *Bulletin American Astronomical Society*, 1, 2:181.

Effect of gravitational lenses on very long base line radio interferometry. *Bulletin American Astronomical Society*, 1, 2:8.

Possible origin of absorption lines in the spectra of QSOs. *Bulletin American Astronomical Society*, 1, 4:334.

BAUER, LUDWIG, Professor

Articles

With F. M. Hershenson

The chemistry of pyridine. VI. Steric and electronic effects influencing the deoxydative substitution of pyridine N-oxides by

- mercaptans in acetic anhydride. *Journal of Organic Chemistry*, 35:655-60.
- The chemistry of pyridine. VII. tetrahydropyridines from the reaction of pyridine N-oxides with mercaptans in acetic anhydride, *Ibid.*, 35:660-64.
- With F. M. Hershenson, R. S. Egan
The chemistry of pyridine. VIII. the stereochemistry of tetrahydropyridines isolated from the reaction of pyridine N-oxides with mercaptans in acetic anhydride, *Ibid.*, 35:665-69.
- With P. L. Julian, C. L. Bell, R. E. Hewitson
Mechanism of the reaction of 2 ξ , 6 β -dibromocholest-4-en-3-one with potassium acetate, *Journal of American Chemical Society*, 91:1690-96.
- With M. S. Atwal, S. N. Dixit, J. E. Gearien, M. Megahy, and others
Analgetics. II. relationship between structure and activity of some β -amino ketones, *Journal Medicinal Chemistry*, 12:994-97.
- With K. F. King, F. M. Hershenson, C. L. Bell
Electron-impact induced fragmentation of alkylthiopyridines. The extent of ring nitrogen involvement. *Journal Heterocyclic Chemistry*, 6:851-57.
- With J. M. Barton
S - [(N - terpenoid carbaxamidinium)methyl]thiosulfates (bunte salts) as potential anti-radiation agents. *Canadian Journal of Chemistry*, 47:1233-37.
- Reviews**
Hetero-aromatic nitrogen compounds: pyroles and pyridines, by K. Schofield. *American Journal of Pharmaceutical Education*, 33:170.
- BELL, CHARLES L., Associate Professor
Articles
With D. Pogany, E. R. Kirch
Composition of sweet basil (*ocium basilicum* L.) obtained from plants grown at different temperatures. *Perfumery and Essential Oil Record*, 59:858-65.
- With T. Schaefer, S. S. Danyluk
Signs of proton-proton and proton-fluorine spin-spin coupling constants in 2-fluoro-3-methylpyridine. Sigma and Pi contributions to coupling in a nitrogen heterocycle. *Canadian Journal of Chemistry*, 47:1507-14.
- Signs of spin-spin coupling constants between aldehydic and ring protons in 2,6-dinitrobenzaldehyde. Evidence for a hyperconjugative contribution to $J_{\text{p}^{\text{H}}\text{CHO}}$. *Canadian Journal of Chemistry*, 47:3529-33.
- Long-range spin-spin coupling constants between ring protons and aldehydic protons in some para-substituted benzaldehydes. *Canadian Journal of Chemistry*, 47:4005.
- With P. Julian, L. Bauer, R. Hewitson
Mechanism of the reaction of 2 ξ , 6 β -dibromocholest-4-en-3-one with potassium acetate. *Journal of American Chemical Society*, 91:1690-96.
- With T. A. Victor, F. E. Hruska, K. Hickichi, S. S. Danyluk
Nuclear magnetic resonance study of the structure and interactions of actinomycin D: temperature and solvent effects on the N-H and NH₂ groups. *Nature*, 223:302.
- With K. King, F. Hershenson, L. Bauer
Electron-impact induced fragmentation of alkylthiopyridines. The extent of ring nitrogen involvement. *Journal of Heterocyclic Chemistry*, 6:851-57.
- With T. A. Victor, F. E. Hruska, S. S. Danyluk
A nuclear magnetic resonance study of the structure and interaction of actinomycin D: analysis and conformational properties. *Tetrahedron Letters*, 53:4721-24.
- GEARIEN, JAMES E., Professor
Books
With B. F. Grabowski
Methods of drug analysis, Lea & Febiger, Philadelphia, 281 pp.
- Articles**
With M. S. Atwal, L. Bauer, S. N. Dixit, M. Megahy, and others
Analgetics II. Relationship between structure and activity of some β -amino ketones. *Journal of Medicinal Chemistry*, 12:994.
- JOSEPH, NORMAN R., Associate Professor
Articles
With H. R. Catchpole, M. B. Engel
Extracellular electrolyte balance and aging. *Gerontologia* (Basel), 15:31-51.
- McDANIEL, HARLAN S., Assistant Professor
With R. L. Warnock
Resonant solutions to the Low equation from fixed point theorems. *Physical Review*, 180:1433.
Bounds on coupling constants in existence theorems for the Low equation. *Nuovo Cimento*, 64:905A.
- PERKINS, ALFRED J., Professor
Books Edited
With W. K. Baer, E. L. Grove
Developments in applied spectroscopy, vol. 6. Plenum Press, New York, 403 pp.
- With E. L. Grove
Developments in applied spectroscopy, vol. 7A. Plenum Press, New York, 341 pp.
Developments in applied spectroscopy, vol. 7B. Plenum Press, New York, 290 pp.
- Articles**
The pure rotation spectrum of deuterium fluoride. *Spectrochimica Acta*, 24A:285.
- With H. E. Carlin
Prediction of pharmaceutical incompatibilities in parenteral medication. *American Journal of Hospital Pharmacy*, 25:271.
- With S. P. Beaton, D. W. A. Sharp, I. Sheft, H. H. Hyman, K. Christie
Vibrational spectra of hexafluoroidate salts. *Journal of Inorganic Chemistry*, 7:2174.
- PHARMACOGNOSY AND PHARMACOLOGY**
BINGEL, AUDREY S., Assistant Professor of Pharmacology
Articles
With N. B. Schwartz
Pituitary LH content and reproductive tract changes during the mouse oestrous cycle. *Journal of Reproduction and Fertility*, 19:215-22.
Timing of LH release and ovulation in the cyclic mouse. *Ibid.*, pp. 223-29.
Timing of LH release and ovulation in the post partum mouse. *Ibid.*, pp. 231-37.
- CHU, BANG-LING WU, Instructor in Pharmacognosy
Articles
With M. J. Solomon, F. A. Crane, E. S. Mika
Simultaneous quantitative gas chromatographic determination of atropine and

scopolamine. *Journal of Pharmaceutical Sciences*, 58, 2:264-66.

With E. S. Mika, M. J. Solomon, F. A. Crane
Quantitative determination of hyoscyamine and scopolamine by direct photodensitometry of thin-layer chromatograms. *Ibid.*, 9:1073-76.

CRANE, FRANK A., Professor of Pharmacognosy

Articles

With M. I. Blake, R. A. Uphaus, J. J. Katz
Effects of deuterium replacement on seed development: influence on excised embryos. *Canadian Journal of Botany*, 47, 9:1465-67.

With M. J. Solomon, B. L. Wu Chu, E. S. Mika

Simultaneous quantitative gas chromatographic determination of atropine and scopolamine. *Journal of Pharmaceutical Sciences*, 58, 2:264-66.

With B. L. Wu Chu, E. S. Mika, M. J. Solomon

Quantitative determination of hyoscyamine and scopolamine by direct photodensitometry of thin-layer chromatograms. *Ibid.*, 9:1073-76.

KROMPOTIC, EVA, Instructor in Zoology

Articles

With J. P. Lewis, W. J. Donnelly

Chromosome aberrations in two patients with chronic granulocytic leukemia undergoing acute transformation. In *Year book of cancer*, ed. by Randolph Lee Clark and Russell W. Cumley, Year Book Medical Publishers, Inc., Chicago, pp. 197-200.

With S. Silberman

Refractory anemia with leukemic transformation and chromosomal change. *Acta Haematologica*, 41:186-92.

With D. L. Gordon, E. E. Zellinger, L. E. Rosenblum

Sex chromosome mosaicism in testicular feminization syndrome. *Obstetrics and Gynecology*, 34:779-82.

LOEVY, HANNELORE T., Assistant Professor of Zoology

Articles

Relationship between the incidence of harelip and parental age in mice. *Growth*, 33: 113-22.

A cao teratogenica dos esteroides na producao da fenda palatina experimental. *Odontologia Atual*, 2:11-18.

MIKA, EDWARD S., Associate Professor

Articles

With M. J. Solomon, F. A. Crane, B. L. Wu Chu

Simultaneous quantitative gas chromatographic determination of atropine and scopolamine. *Journal of Pharmaceutical Sciences*, 58, 2:264-66.

With B. L. Wu Chu, M. J. Solomon, F. A. Crane

Quantitative determination of hyoscyamine and scopolamine by direct photodensitometry of thin-layer chromatograms. *Ibid.*, 9:1073-76.

MORRIS, RALPH W., Professor of Pharmacology

Articles

Trends in centrally-acting drugs I: Depressants. *PharmIndex*, 11, 5:5-12.

Trends in centrally-acting drugs II: Stimulants. *Ibid.*, 6:4-8.

Trends in centrally-acting drugs III: Abuse and misuse. *Ibid.*, 7:4-8.

With E. F. Lutsch

Daily susceptibility rhythm to morphine analgesia. *Journal of Pharmaceutical Sciences*, 58:374-77.

With M. S. Atwal, L. Bauer, S. N. Dixit, J. E. Gearien, and others

Analgetics II. Relationship between structure and activity of some beta-amino ketones. *Journal of Medicinal Chemistry*, 12: 994-97.

PHARMACOLOGY

ANDERSON, EDMUND G., Associate Professor

Articles

With B. V. Clineschmidt

Lysergic acid diethylamide: antagonism of supraspinal inhibition of spinal reflexes. *Brain Research*, 16:296-300.

GREEN, RICHARD D., Assistant Professor

Articles

The effect of denervation on the sensitivity of the superior cervical ganglion of the pithed cat. *The Journal of Pharmacology and Experimental Therapeutics*, 167:143-50.

MARCZYNSKI, THADDEUS J., Associate Professor

Articles

Post-reinforcement EEG synchronization and central cholinergic mechanisms. *Federation Proceedings*, 28, 1, Symposium issue, pp. 132-34.

With J. T. Hackett, J. L. York

Steady potential correlates of positive reinforcement: "Reward contingent positive variation." *Science*, 163:301-04.

With J. T. Hackett

Post-reinforcement EEG synchronization and facilitation of cortical somatosensory evoked potentials during instrumentally conditioned appetitive behavior in the cat. *Electroencephalography and Clinical Neurophysiology*, 26:41-49.

Post-reinforcement EEG synchronization and enhancement of cortical photic evoked potentials during instrumentally conditioned appetitive behavior in the cat. *Brain Research*, 15:447-64.

MAYNERT, E. W., Professor

Articles

A racemic form of 5-ethyl-5(3-hydroxy-1-methylbutyl) barbituric acid as a metabolite of pentobarbital. *Journal of Medicinal Chemistry*, 12:180-81.

The role of biochemical and neurohumoral factors in the laboratory evaluation of anti-epileptic drugs. *Epilepsia*, 10:145-56.

SCHULMAN, MARTIN P., Professor

Articles

With E. T. Browning

(¹⁴C) Acetylcholine synthesis by cortex slices of rat brain. *Journal of Neurochemistry*, 15:1391-1405.

With M. Sharkawi

Inhibition by morphine of the release of (¹⁴C) acetylcholine from rat brain cortex slices. *Journal of Pharmacy and Pharmacology*, 21:546-47.

Relationship between acetylcholine synthesis

and its concentration in rat cerebral cortex. *British Journal of Pharmacology*, 36:373-79.

PHARMACY

BLAKE, MARTIN I., Professor and Head of Department

Articles

Graduate enrollment data, September, 1968, and graduate study in member colleges, 1969-1970. *American Journal of Pharmaceutical Education*, 33:100-18.

The official compendium versus a federal compendium in pharmaceutical education. *Ibid.*, 459-66.

With S. Agarwal

Differentiating spectrophotometric titration of phenobarbital-diphenylhydantoin combinations in nonaqueous medium. *Analytical Chemistry*, 41:1104-06.

Analysis of certain phenothiazines and their dosage forms by photometric titration with ceric sulfate. *Journal of Pharmaceutical Sciences*, 58:1011-13.

Radioisotopes and their application in cosmetic research. *American Perfumer and Cosmetics*, 84:35-41.

Oxidation of chlorprothixene with ceric sulfate. *Journal of Pharmacy and Pharmacology*, 25:556.

With F. A. Crane, R. A. Uphaus, J. J. Katz

Effects of deuterium replacement on seed development; influence on excised embryos. *Canadian Journal of Botany*, 47:1465-67.

CARLIN, HERBERT S., Associate Professor

Articles

With N. M. Avellone, W. J. Bicket, W. J. Durant, H. Fishman, and others

Report of the task force . . . practitioner's and subprofessional's roles in pharmacy. *Journal of the American Pharmaceutical Association*, NS9.

ECANOW, BERNARD, Associate Professor

Articles

With B. Gold, P. Tunkunas

Rheological effects of stress and ataractic drugs (implications for a theory of schizophrenia). *Diseases of the Nervous System*, 30:172-77.

With R. Balagot, V. Bandelin

Effect of suspended particles on the gas absorbing ability of lung surfactants. *American Review of Respiratory Diseases (Section of Original Articles)*. 99:106-08.

With B. Gold, C. Ecanow

Newer aspects of suspension theory. *American Perfumer and Cosmetics*, 8:27-30.

With B. Gold, R. Levinson, H. Takruri

Conceptual clarification of the flocculation and coagulation phenomena. *American Perfumer and Cosmetics*, 84:30-31.

Bulletins

With R. Balagot, W. Stanaszek

Aggregated micelles: possible role in gas transference. *Presbyterian-St. Luke's Hospital Medical Bulletin*. 7:136-38.

MRTEK, ROBERT G., Assistant Professor

Articles

With M. B. Mrtek, L. J. LeBeau, F. P. Siegel

A microculture assay for the rapid determination of antifungal activity. *Journal of Pharmaceutical Sciences*, 58:1362-65.

With B. Hamburger, S. Fanciullo

The pharmacist in the clinical laboratory: enhanced patient care. *Pharmacy Management*, 3, 11:30-38.

With M. B. Mrtek

Keeping up with today. *Illinois Pharmacist*. 33:438.

PHYSICAL MEDICINE AND REHABILITATION

ABRAMSON, DAVID I., Professor and Head of Department

Articles

With B. L. Rickert, J. F. Talso

Efficacy of common vasodilating procedures in counteracting cold vasoconstriction. *Archives Environmental Health*, 19:103-11.

With L. S. W. Chu, B. L. Rickert, J. F. Talso, S. W. Lee

Latency changes in distal median nerve produced by alterations in ambient temperature. *Journal of Applied Physiology*, 27:795-803.

Reviews

Arteriosclerosis, by F. G. Schettler and G. S. Boyd. *British Medical Journal*, 4:98.

Diagnosis and management of arterial disorders of the extremities. *Modern Medicine*, 103-10.

PHYSIOLOGY

GOSE, EARL E., Associate Professor

Articles

Biological and mechanical pattern recognition. In *Methodologies of pattern recognition*, ed. by S. Watanabe, University of Hawaii Press, pp. 203-51.

The optimum replacement schedule for an evolving population of pattern recognition properties. *Proceedings of the Second Hawaii International Conference on Systems Science*, Weston Periodicals, pp. 357-60.

With A. H. Klopff

An evolutionary pattern recognition network. *IEEE Transactions on System Science and Cybernetics*, 5:247-50.

GREENBERG, RUVEN, Associate Professor

Articles

With Ira Rosenthal, G. Falk

Electron microscopy of human tumors secreting catecholamines: correlations with biochemical data. *Journal of Neuropathology and Experimental Neurology*, 28, 3:475-500.

With Ira M. Rosenthal, R. Kathan, G. S. Falk, R. Wong

Catecholamine metabolism of a ganglioneuroma: correlation with electronmicrographs. *Pediatric Research*, 3, 5:413-24.

HAWLEY, PHILIP L., Assistant Professor

Articles

Oxygen consumption: heart homogenates. In *Symposium on physiological systems in semi-arid environments*, ed. by M. L. Riedesel, University of New Mexico, pp. 97-103.

Reviews

Mammalian Hibernation III, by K. C. Fisher, *et al Physiological Zoology*, 42:350-51.

MAROTTA, SABATH F., Associate Professor

Articles

With C. Lau

Role of peripheral chemoreceptors on adreno-

cortical secretory rates during hypoxia. *Aerospace Medicine*, 40, 10:1065-68.

MICHAEL, JOEL A., Assistant Professor

Articles

With L. Kaufman

High frequency visual evoked responses: a product of neuronal spiking. *Brain Research*, 15:255-58.

OMACHI, AKIRA, Professor

Articles

With C. B. Scott, H. Hegarty

Pyridine nucleotides in human erythrocytes in different metabolic states. *Biochimica et Biophysica Acta*, 184:139-47.

With C. B. Scott, T. E. Parry

Influence of glycolysis on NADH content in human erythrocytes. *American Journal of Physiology*, 216, 3:527-30.

ROVICK, ALLEN A., Associate Professor

Articles

With P. B. Dobrin

Influence of vascular smooth muscle on contractile mechanics and elasticity of arteries. *American Journal of Physiology*, 217, 6: 1644-51.

SABA, THOMAS M., Assistant Professor

Articles

With N. R. Di Luzio

Reticuloendothelial blockade and recovery as a function of opsonic activity. *American Journal of Physiology*, 216, 1:197-205.

Effect of x-irradiation on reticuloendothelial phagocytic function and serum opsonic activity. *American Journal of Physiology*, 216, 4:910-14.

Surgical stress and reticuloendothelial function. *Surgery*, 65, 5:802-07.

SCHWARTZ, NEENA B., Professor of

Physiology and Assistant Dean
for Faculty Affairs

Articles

A model for the regulation of ovulation in the rat. In *Recent progress in hormone research*, vol. 25, ed. by E. B. Astwood, Academic Press Inc., New York, pp. 1-55.

Modeling and control in gonadal function. In *Mathematic bioscience*, supplement 1, ed. by Richard Bellman, American-Elsevier Publishing Co., Inc., New York, pp. 229-55.

A model for the control of the rat estrous cycle. *Transactions of the American Society of Mechanical Engineers*. 91:321-24.

With C. A. Ely

Temporal dissection of pituitary and ovarian events in the rat estrous cycle. *Excerpta Medica International Congress Series*, 184: 1005-11.

With Audrey S. Bingel

Pituitary LH content and reproductive tract changes during the mouse oestrous cycle. *Journal of Reproductive Fertility*, 19: 215-22.

Timing of LH release and ovulation in the cyclic mouse. *Ibid.*, pp. 223-29.

Timing of LH release and ovulation in the post-partum mouse. *Ibid.*, pp. 231-37.

WOLF, ARNOLD V., Professor and Head of
Department

Articles

With M. G. Brown

Concentrative properties of aqueous solutions:

conversion tables. In *Handbook of chemistry and physics*, 50th ed. Chemical Rubber Publishing Co., Cleveland, pp. D-171-D-210.

With A. B. Goodman

Insensible water loss from human skin as a function of ambient vapor concentration. *Journal of Applied Physiology*, 26, 2:203-07.

With V. K. G. Pillay

Renal concentration tests: osmotic pressure, specific gravity, refraction and electrical conductivity compared. *American Journal of Medicine*, 46, 6:837-43.

ZUBER, BERT L., Associate Professor

Articles

Oculomotor plant dynamics: electromyographic and transient responses in the cat. *Proceedings of the Fourth Congress of the International Federation of Automatic Control*, Warsaw, June.

Oculomotor organization of the cat: eye movement and electromyographic responses. *Journal of Applied Physiology*, 27:223-28.

Further considerations of delays in the oculomotor pathways. *Experimental Neurology*, 24:523-27.

The role of the extraocular electromyogram in eye movement control. *Proceedings of the 8th International Conference on Medical and Biological Engineering*, 15:2.

With R. J. Reinhart

Cellular activation patterns in the abducens nucleus during horizontal nystagmus in the cat. *Brain Research*, 15:284-87.

Horizontal eye movements from abducens nerve stimulation in the cat. *IEEE Transactions in Biomedical Engineering*, BME-17: 11-15.

PREVENTIVE MEDICINE AND COMMUNITY HEALTH

CARNOW, BERTRAM W., Associate Professor

Articles

Disease detection in industry. *Labor Today*, 8:21.

Bulletins and Technical Reports

With M. H. Lepper, R. B. Shekelle, J. Stamler

The Chicago air pollution study: SO₂ levels and acute illness in patients with chronic bronchopulmonary disease. *Archives of Environmental Health*, 18:768.

DOUGHTY, CLYDE C., Assistant Professor

Articles

With Eunice C. Schuytema, H. L. Glenn

Relative rates of Lysis of Staphylococcal cell walls by Lytic enzymes from various bacteriophage types. *Journal of Bacteriology*, 98:920-23.

With J. A. Watson, J. A. Hayashi,

E. C. Schuytema

Identification of reduced Nicotinamide adenine dinucleotide phosphate-dependent aldehyde reduction in a rhodotorula strain. *Journal of Bacteriology*, 100:110-16.

ELAM, HARRY P., Associate Professor

Articles

Malignant cultural deprivation — its evolution. *Pediatrics* 3:44.

GELPERIN, ABRAHAM, Associate Professor

Articles

Management of the alcoholic in the emergency room. *Hospital Topics*, 47:65.

- Community health: a preamble. *The Optometric Weekly*, 60:03.
- The natural history of disease: perspective. *Ibid.*, 60:23.
- Schools and school health: a study of suburban Cook County. *Ibid.*, 50:19.
- Mental retardation. *Chicago Medicine*, 72: 725.
- Rehabilitation. *Ibid.*, p. 24.
- Bulletins and Technical Reports**
- School health services and programs in suburban Cook County, Illinois. University of Illinois College of Medicine.
- Preliminary survey of rehabilitation facilities in the Chicago metropolitan area. Hospital Planning Council for Metropolitan Chicago, Chicago.
- Survey of mental retardation facilities and services in the Chicago metropolitan area. *Ibid.*
- LASHOF, JOYCE C., Professor**
- Articles**
- Chicago project provides health care and career opportunities. *Hospital Journal of the American Hospital Association*, 43, 13: 105-08.
- LEPPER, MARK H., Professor**
- Articles**
- With D. W. Bentley*
Empyema due to clostridium perfringens. *American Review of Respiratory Disease*, 5, 100:706-10.
- With W. G. Huber, M. B. Carlson*
Penicillin and antimicrobial residues in domestic animals at slaughter. *Journal American Veterinary Medical Association*, 154: 1590-95.
- With B. W. Carnow, R. B. Shekelle, J. Stamler*
The Chicago air pollution study: SO₂ levels and acute illness in patients with chronic bronchopulmonary disease. *Archives of Environmental Health*, 18:768-76.
- With R. H. Suhs, J. L. Lumeng*
An experimental immunologic approach to the induction and perpetuation of chronic bronchitis. *Archives of Environmental Health*, 18:564-73.
- With N. Shioura, B. Carnow, S. Andelman, L. Leher*
Respiratory disease in urban environment. *Industrial Medicine*, 4, 38:126-31.
- Bulletins and Technical Reports**
- Scientific issues and research needs concerning microbial ecology and the use of drugs in feed. The Use of Drugs in Animal Feeds Publication 1679, *National Academy of Sciences*, Washington, D.C.
- LEVINE, CHARLOTTE C., Instructor**
- Articles**
- Doctor-patient communication with the inner city adolescent. *New England Journal of Medicine*, 9, 282:494.
- LEVY, LEO, Associate Professor**
- Articles**
- Financing, organization and control: the problem of implementing comprehensive community mental health services. *American Journal of Public Health*, 59, 1:40-47.
- With H. M. Visotsky*
The quality of urban life: an analysis from the perspective of mental health. In *The quality of urban life*, ed. by H. S. Schmandt and W. Bloomberg, Jr., Stage Publications, Inc., Beverly Hills, California, pp. 255-68.
- Introduction. In *Partial hospitalization: problems, purposes, and changing objectives*, ed. by R. Chen, J. Healy, and H. V. Williams, State of Kansas Press, pp. 6-11.
- Reviews**
- Application of mental health statistics, by Morton Kramer. *Archives of General Psychiatry*, 21:511-12.
- LICHTER, EDWARD A., Professor and Head of Department**
- Articles**
- Isoprecipitins to α_2 Macroglobulins in chimpanzee. *Annals of the New York Academy of Sciences*, 162:202-04.
- Immunological studies of serum proteins in nonhuman primates. *Ibid.*, pp. 43-49.
- With T. P. Conway, S. Dray*
Identification and genetic control of three rabbit γ A-immunoglobulin allotypes. *Journal of Immunology*, 102, 3:544-54.
- MEDAK, HERMAN, Professor**
- Articles**
- With Elizabeth A. McGrew, P. Burlakow, R. B. Jans*
Definite cytopathologic characteristics of primary oral melanoma. *Oral Surgery, Oral Medicine and Oral Pathology*, 27, 2:237-46.
- With K. N. Tan, L. Cohen, P. Burlakow*
Focal epithelial hyperplasia in a Mexican Indian. *Archives of Dermatology*, p. 100.
- With P. Burlakow, Elizabeth A. McGrew, R. Tietke*
The cytology of vesicular conditions affecting the oral mucosa: part 2. Keartosis follicularis. *ACTA Cytologica*, 13:7.
- NELSON, KENRAD E., Assistant Professor**
- Articles**
- Hospital acquired infection, a public health problem. *Illinois Public Health Association*, 3:4-7.
- ROSENTHAL, SOL R., Professor**
- Articles**
- With K. C. Thadhani, W. A. Spurrier*
An inhibitor of Toxin Lethality: "competitin." *Experimental Medicine and Surgery*, 3, 26: 124-30.
- With J. T. McEnery, B. Nika, M. G. Thorne*
A modified Tuberculin Tine Test. *New Products*, 1, 1:50-54.
- Reviews**
- BCG Vaccination, by R. Mande. *Journal of the American Medical Association*, 208: 2339-40.
- SHEKELLE, RICHARD B., Associate Professor**
- Articles**
- With B. W. Carnow, M. H. Lepper, J. Stamler*
The Chicago air pollution study: SO₂ levels and acute illness in patients with chronic bronchopulmonary disease. *Archives of Environmental Health*, 18:768-76.
- With A. M. Ostfeld, O. Paul*
Social status and incidence of coronary heart disease. *Journal of Chronic Diseases*, 22: 381-94.
- With J. Stamler, J. A. Schoenberger, H. A. Lindberg, J. M. Stoker, and others*
Detection of susceptibility to coronary disease. *Bulletin of the New York Academy of Medicine*, 45:1306-25.

WOLTER, JANET M., Assistant Professor

Articles

With N. J. Gubisch, C. P. Perlia, M. Dederick, N. W. Ream, S. G. Taylor III

The Use of Mithramycin in Malignancy-Associated Hypercalcemia. A preliminary report. *Presbyterian-St. Luke's Hospital Medical Bulletin*, 7:110-15.

With N. W. Ream, C. P. Perlia, S. G. Taylor III

Mithramycin therapy in disseminated germinal testicular cancer. *Journal of the American Medical Association*, 204:1030-36.

PROSTHODONTICS

FLORES, S. SOL, Professor

Articles

How does the academy of general dentistry rate courses? *Journal of the American College of Dentists*, 36:183-85.

LERMAN, MARTIN D., Assistant Professor

Articles

With C. S. Greene, H. D. Sutcher, D. M. Laskin

The TMJ pain dysfunction syndrome: heterogeneity of the patient population. *Journal American Dental Association*, 79:1168-72.

RICE, DONALD W., Associate Professor

Articles

With A. O. Rahn

Maxillofacial prosthodontic course in a dental laboratory technology program. *Journal of Dental Education*, 33:219-20.

SUTCHER, HOWARD D., Instructor

Articles

With C. S. Greene, M. D. Lerman, D. M. Laskin

The TMJ pain dysfunction syndrome: heterogeneity of the patient population. *Journal American Dental Association*, 79:1168-72.

PSYCHIATRY

BELINSON, LOUIS, Clinical Assistant Professor

Articles

With S. Bellack

Use of combined furazolidone and tetracycline in controlling institutional shigellosis. *Illinois Medical Journal*, 135:701-04.

BENEZRA, E. ELIOT, Clinical Assistant Professor

Articles

Psychiatry in modern Turkey—old ties and new trends clashing and blending. *The Psychiatric Quarterly Supplement*, 42:102-15.

BUCHER, MARY RUE, Associate Professor

Articles

With J. Stelling

Characteristics of professional organizations. *Journal of Health and Social Behavior*, 10, 1:3-15.

With J. Stelling, P. Dommermuth

Differential prior socialization: a comparison of four professional training programs. *Social Forces*, 48, 2:213-23.

Implications of prior socialization for residency programs in psychiatry. *Archives of General Psychiatry*, 20:395-402.

BURSTEIN, ALVIN G., Associate Professor of Psychology

Articles

With A. A. Müller

Professional development in psychiatric residents. *Archives of General Psychiatry*, 20: 385-94.

Reviews

With R. D. Fitzgerald

Behavioral science: basic or irrelevant, by Oliver Cope. *Man, mind and medicine: the doctor's education*, J. B. Lippincott, Philadelphia, 144 pp.

CARMICHAEL, HUGH T., Professor Emeritus

Articles

Continuing education for psychiatrists. *Archives of General Psychiatry*, 20:617.

Is psychoanalysis an effective treatment for psychoneuroses? In forum, effectiveness of psychoanalysis. *Modern Medicine*, 10:199-202.

CARTWRIGHT, ROSALIND D., Professor of Psychology

See Psychology, Chicago Circle Campus

GARRON, DAVID C., Associate Professor of Psychology

Articles

With L. R. Vander Stoep

Personality and intelligence in Turner's syndrome: a critical review. *Archives of General Psychiatry*, 21:339-46.

GEDO, JOHN E., Clinical Associate Professor

Articles

With J. Miller, M. Sabshin, G. Pollock, L. Sadov, N. Schlessinger

Some aspects of Charcot's influence on Freud. *Journal of the American Psychoanalytic Association*, 17, 2:608-23.

GIOVACCHINI, PETER L., Clinical Professor

Articles

Aggression: adaptive and disruptive aspects. *Bulletin of the Philadelphia Association for Psychoanalysis*, 19, 2:76-87.

The role of interpretation in the treatment of schizophrenia. *International Journal of Psychoanalysis*, 50:179-87.

Symposium on self-mutilation: discussion. *British Journal of Medical Psychology*, 42, 111:5-7.

GROSS, MORTIMER D., Clinical Assistant Professor

Articles

With R. A. Tofanelli

Psychiatric consultation and medication. In *Progress in parent information, professional growth, and public policy*, ed. by Arena, Association for Children with Learning Disabilities, Pittsburgh, pp. 77-81.

JENKIN, NÖEL, Professor of Psychology

Articles

With R. Vroegh

Contemporary concepts of masculinity and femininity. *Psychological Reports*, 2, 25: 679-97.

KARER, RATHE, Assistant Professor of Psychology

Articles

Temporal factors in autonomic responses for

- normal and mentally defective subjects. *American Journal of Mental Deficiency*, 24:80-85.
- Visual beats: differential brightness of the stimuli and estimation of brightness. *Vision Research*, 9:429-33.
- With J. Clausen
Visual beats: preliminary observations of perceived rate as a function of retinal locus stimulated. *Perception and Psychophysics*, 5:163-64.
- KLING, ARTHUR, Associate Professor
- Articles
With J. Kovach, T. Tucker
Behaviour of cats. In *Behaviour of domestic animals*, ed. E. S. E. Hafez, Balliere, Tindall and Cassell, London, 647 pp.
- With D. Dicks, E. M. Gurowitz
Effects of amygdectomy on social behavior in the vervet (*C. aethiops*). *Behavior*, vol. 1, ed. by C. R. Carpenter, S. Karger, New York, pp. 232-41.
- With T. Tucker
Preservation of delayed response following combined lesions of prefrontal and posterior association cortex in infant monkeys. *Experimental Neurology*, 23:491-502.
- With R. D. Cartwright, N. Bernick, G. Borowitz
Effect of an erotic movie on the sleep and dreams of young men. *Archives of General Psychiatry*, 20:262-71.
- With D. Dicks, R. E. Myers
Effects of uncus and amygdala lesions on social behavior in the free-ranging rhesus monkey. *Science*, 165:69-71.
- With S. Finer, J. Gilmour
Regional development of acetylcholinesterase in cat brain and the effects of maternal deprivation. *International Journal Neuropharmacology*, 8:25-32.
- With H. Schuchman, J. Orbach
Olfactory discrimination in monkeys with lesions in the amygdala. *Journal Comprehensive Physiological Psychology*, 67:212-15.
- KRAMER, CHARLES H., Clinical Assistant Professor
- Articles
How a mental health consultant can help create a wholesome emotional climate. *Modern Nursing Home*, 23, 5:79-91, 110.
- What's needed to get patients outside their dependent selves: effective communication. *Ibid.*, 3:71-73.
- KRAUSE, MERTON S., Associate Professor of Psychology
- Articles
The valid assessment of others' beliefs. *Journal of General Psychology*, 81:95-108.
- The theory of measurement reliability. *Journal of General Psychology*, 80:267-78.
- Construct validity for the evaluation of therapy outcomes. *Journal of Abnormal Psychology*, 74:524-30.
- With K. I. Howard, D. E. Orlinsky
Direction of affective influence in psychotherapy. *Journal of Clinical and Consulting Psychology*, 33, 5:614-20.
- With M. Fitzsimmons, N. Wolf
Focussing on the client's expectations of treatment: brief report. *Psychological Reports*, 24:973-74.
- KYSAR, JOHN E., Associate Professor
- Articles
With M. S. Zaks, H. P. Schuchman, G. L. Schon, J. Rogers
Range of psychological functioning in "normal" late adolescents. *Archives of General Psychiatry*, 21:515-28.
- LEAVITT, FRANK, Assistant Professor of Psychology
- Articles
Accuracy of report and central readiness. *Journal of Experimental Psychology*, 81:542-46.
- LESSING, ELISE E., Assistant Professor
- Articles
Racial differences in indices of ego functioning relevant to academic achievement. *Journal of Genetic Psychology*, 115:153-67.
- With Susan W. Zagorin
Some demographic, value, and personality correlates of endorsement of Negro militancy by Negro and white youth. *Proceedings, 77th Annual Convention, APA*, pp. 295-96.
- MUSLIN, HYMAN L., Associate Professor of Psychology
- Articles
The medical student as adolescent. *The Bulletin of Chicago Society of Adolescent Psychiatry*, 3, 1:6-13.
- On the appreciation of jazz music. *The Bulletin of the Philadelphia Association for Psychoanalysis*, 19, 4:22, 12-69.
- PEARSON, PAMELA H., Assistant Professor of Psychology
- Articles
Openness to experience as related to organismic valuing. *Journal of Personality*, 37:481-96.
- POLLOCK, GEORGE H., Clinical Professor
- Articles
On Sigmund Freud's Dreams, by Alexander Grinstein. *Archives of General Psychiatry*, 20, 6:739-40.
- With E. M. Wasserman, R. I. Yufit
Medical specialty choice and personality, Part I. *Ibid.*, 1:89-99.
- Medical specialty choice and personality, Part II. Outcome and postgraduate follow-up results. *Ibid.*, 21:529-35.
- With J. Miller, L. Sadow, N. Schlessinger, J. E. Gedo, M. Sabshin
Some aspects of Charcot's influence on Freud. *Journal of the American Psychoanalytic Association*, 17:608-23.
- RHEAD, CLIFTON, M., Professor and Clinical Assistant
- Articles
The role of pregenital fixations in agoraphobia. *Journal of the American Psychoanalytic Association*, 17, 3:848-61.
- SABSHIN, MELVIN, Professor and Head of Department
- Articles
The anti-community mental health "movement." *American Journal of Psychiatry*, 125:1005-12.
- With J. Miller, J. E. Gedo, G. Pollock, L. Sadow, N. Schlessinger
Some aspects of Charcot's influence on Freud.

Journal of the American Psychoanalytic Association, 17:608-23.

Bulletins and Technical Reports

Crisis in psychiatric hospitalization. *Report No. 72 of the group for the advancement of psychiatry*, 89 pp.

Summary report of the preparatory commission of methods. *Teaching psychiatry in medical school*, American Psychiatric Association, Washington, D.C., pp. 370-81.

SADOW, LEO, Clinical Assistant Professor

Articles

Ego axis in psychopathology. *Archives of General Psychiatry*, 21:15-24.

With J. A. Miller, M. Sabshin, J. E. Gedo, G. H. Pollock, N. Schlessinger

Some aspects of Charcot's influence on Freud. *Journal of the American Psychoanalytic Association*, 17, 2:608-23.

SINGER, PAUL R., Assistant Professor in Psychology

Articles

A psychologist takes issue. *Social Work*, 14: 143-44.

With D. Offer

Psychological testing. *The psychological world of the teen-ager*. Basic Books, New York, pp. 286.

SOLOMON, DANIEL, Associate Professor of Psychology

Articles

The generality of children's achievement-related behavior. *Journal of Genetic Psychology*, 114:109-25.

Psycho-social deprivation and achievement dispositions: present knowledge and needed research. *Psychological Reports*, 24:227-37.

With W. E. Bezdek, L. Rosenberg

Teaching styles and learning. In *Teaching: essays and readings*, ed. by K. Yamamoto, Houghton-Mifflin, New York, pp. 327-35.

With K. A. Houlihan, R. J. Parelius

Intellectual achievement responsibility in Negro and white children. *Psychological Reports*, 24:479-83.

With R. J. Parelius, T. V. Busse

Dimensions of achievement-related behavior among lower-class Negro parents. *Genetic Psychology Monographs*, 79:163-90.

With J. Yaeger

Effects of content and intonation on perceptions of verbal reinforcers. *Perceptual and Motor Skills*, 28:319-27.

Determinants of boys' perceptions of verbal reinforcers. *Developmental Psychology*, 1: 637-45.

STELLING, JOAN G., Assistant Professor of Sociology

Articles

With R. Bucher

Characteristics of professional organizations. *Journal of Health and Social Behavior*, 10, 1:3-15.

With R. Bucher, P. Dommermuth

Implications of prior socialization for residency programs in psychiatry. *Archives of General Psychiatry*, 20:395-402.

Differential prior socialization: a comparison of four professional training programs. *Social Forces*, 48, 2:213-23.

STRASSMAN, HARVEY D., Associate Professor

Articles

Insomnia. *American Academy of General Practice*, 40:116-20.

With D. D. Taylor, J. A. Scoles

A new core curriculum in medical education. *Journal of Medical Education*, 44, 3:170.

With P. Hood, B. Brisson

Thyroid hormone binding proteus and acute psychiatric illness. *Behavioral Neuropsychiatry*, 1, 2:62.

Reviews

Human sexuality in medical education and practice, ed. by G. E. Vincent. *Annals of Internal Medicine*, 70, 4:881.

SUSLICK, ALVIN, Clinical Assistant Professor

Articles

Non-verbal communication in the analysis of adults — panel report. *Journal American Psychoanalytic Association*, 17:955-67.

Reviews

Selected papers of Edmund Bergler, 1933-1961. *Archives of General Psychiatry*, 21: 253-54.

Toward a unity of knowledge: psychological issues 6, 2, Monograph 22. *Archives of General Psychiatry*, 21:631.

TUCKER, THOMAS J., Assistant Professor of Psychology

Articles

With A. Kling, J. Kovach

The behaviour of cats. In *The behaviour of domestic animals*, ed. by E. S. E. Hafez, Bailliere, Tindall and Cassell, Ltd., London, pp. 482-512.

With A. Kling

Preservation of delayed response following combined lesions of prefrontal and posterior association cortex in infant monkeys. *Experimental Neurology*, 23:491-502.

VAN PELT, JOHN

Articles

With R. D. Bock, C. Dicken

Methodological implications of content-acquiescence correlation in the MMPI. *Psychological Bulletin*, 71, 2:127-39.

WALTERS, ORVILLE S., Professor

See Health Service, Urbana Campus.

WASSERMAN, EDWARD M., Clinical Assistant Professor

Articles

With R. I. Yufit, G. H. Pollock

Medical specialty choice and personality. I. Initial results and predictions. *Archives of General Psychiatry*, 20:89-99.

Medical specialty choice and personality. II. Outcome and postgraduate follow-up results. *Archives of General Psychiatry*, 21:529-35.

WEINBERG, JACK, Clinical Professor of Psychology

Articles

Interpersonal relationships in multigenerational families. In *Living in the multigeneration family*. Institute of Gerontology, University of Michigan, Wayne State University, pp. 52-99.

Psychiatric aspects of the rehabilitation of

geriatric patients. *Illinois Medical Journal*, Chicago, pp. 63-66.

Sexual expression in late life. *American Institute of Psychiatry*, 126:713-16.

WERRY, JOHN S., Associate Professor

Articles

With K. Minde

Intensive psychiatric teacher counselling in a low socioeconomic area: a controlled evaluation. *American Journal of Orthopsychiatry*, 39:595-608.

With H. C. Quay

Observing the classroom behavior of elementary school children. *Exceptional Children*, 35:461-69.

With G. Weiss, K. Minde, V. Douglas, D. Sykes

Studies on the hyperactive child V: the effects of dextroamphetamine and chlorpromazine on behavior and intellectual functioning. *Journal Child Psychology and Psychiatry*, 9:145-56.

With K. V. Davis, R. L. Sprague

Stereotyped behavior and activity level in severe retardates: the effect of drugs. *American Journal of Mental Deficiency*, 73:721-27.

WILKERSON, DOUGLAS C., Clinical

Assistant Professor

Articles

The mentally retarded child: a psychological and child-care approach. *Mental Retardation* 7:17-19.

YUFIT, ROBERT I., Assistant Professor of Psychology

Articles

A suicide prevention center—some recommendations on directions. *Chicago Medicine*, 72, 15:561-65.

Variations of intimacy and isolation. *Journal Projective Techniques*, 33, 1:49-58.

With G. H. Pollock, E. Wasserman

Medical specialty choice and personality. I. Initial results and predictions. *Archives of General Psychiatry*, 20:89-99.

With E. Wasserman, G. H. Pollock

Medical specialty choice and personality. II. Outcome and postgraduate follow-up results. *Archives of General Psychiatry*, 21:529-35.

With R. P. Barrell

Illinois psychologists examine their training. *The Clinical Psychologist*, Summer, p. 194.

RADIOLOGY

ALCORN, FRANKLIN S., Associate Professor

Articles

With Evelyn O'Donnell, R.T.

The training of nonphysician personnel for use in a mammography program. *Cancer*, 23, 4:879-83.

DOBEN, GLEN D., Clinical Professor

Articles

Experimental evaluation for a 2', 6'-diiodo-dithyronine suspension as a resorbable encephalomyelographic contrast agent. *Radiology*, 92, 3:604.

With R. H. Caplan

Endocrine studies in patients with the "empty sella syndrome." *Archives of Internal Medicine*, 123, 6:611-19.

FORDHAM, ERNEST W., Assistant Professor

Articles

With G. G. Hibbs, F. R. Hendrickson

Shield construction for extended field therapy of Hodgkin's disease. *Radiology*, 92, 6: 1374-76.

GREENFIELD, GEORGE B., Clinical Associate Professor

Books

Radiology of bone diseases. J. B. Lippincott Co., Philadelphia, 465 pp., 800 illustrations.

HALKO, ARLENE A., Assistant Professor

Articles

With G. Burke, D. Goldberg

Dynamic clinical studies with radioisotopes and the scintillation camera: iv. ^{99m}Tc-sodium pertechnetate cardiac blood-flow studies. *Journal of Nuclear Medicine*, 10, 6:270-80.

With G. E. Silverstein, G. Burke, D. Goldberg

Superior vena caval system obstruction caused by benign endothoracic goiter. *Diseases of the Chest*, 56:519-23.

HENDERSON, WALTER J., Assistant

Professor of Radiation Physics

Articles

With G. A. Williams, E. N. Bowser

Mode of hypocalcemic action of glucagon in the rat. *Endocrinology*, 85, 3:537-41.

HENDRICKSON, FRANK R., Professor

Articles

With D. P. Ying

Radiotherapy for early stages of vocal cord cancer. *Annals of Otolaryngology and Rhinology*, 78, 2:319-25.

With E. W. Fordham, G. G. Hibbs

Shield construction for extended field therapy of Hodgkin's disease. *Radiology*, 92, 6: 1374-76.

HIBBS, GEORGE G., Assistant Professor

Articles

With E. W. Fordham, F. R. Hendrickson

Shield construction for extended field therapy of Hodgkin's disease. *Radiology*, 92, 6: 1374-76.

LIEBNER, EDWIN J., Professor

Reviews

Roentgenology of the spleen and pancreas, by Josef Rosch, M.D. *Review of Surgery*, 26, 3:220.

MELAMED, MYRON, Clinical Associate Professor

Articles

With S. E. Rabushka, J. L. Melamed

Colon ileus associated with low spine disease. *Clinical Radiology*, 20:47-51.

OVADIA, JACQUES, Assistant Professor

Articles

Electron energy calibration. *Annals of the New York Academy of Science*, 161:181-86.
Treatment plans in homogenous tissue using electrons of 15-37 MEV. *Ibid.*, 161:243-53.

POLCYN, ROBERT E., Assistant Professor

Articles

With A. Gottschalk

Dynamic studies with the newer instrumenta-

tion. *Radiologic Clinics of North America*, VII, 2:243-55.

With P. B. Hoffer, R. Moody, H. J. Lowe, A. Gottschalk

Flourescence detection: application to the study of cerebral blood flow. *Journal of Nuclear Medicine*, 10, 10:651-53.

VALVASSORI, GALDINO E., Professor

Articles

The abnormal internal auditory canal; the diagnosis of acoustic neuroma. *Radiology*, 92, 3:449-60.

The diagnosis of acoustic neuroma. *Seminars in Roentgenology*, 4:171-77.

Otosclerosis. *Ibid.*, 4:178-84.

Radiologic diagnosis of neuro-otologic problems by tomography. *The AMA Archives of Otolaryngology*, 89:83-86.

With R. F. Naunton, J. R. Lindsay

Inner ear anomalies; clinical and histopathological considerations. *Annals of Otolology, Rhinology and Laryngology*, 73, 5:929-38.

SURGERY

APTER, JULIA T., Professor

Articles

A computerized hospital—how, what, where and why? *Presbyterian—St. Luke's Medical Bulletin*, 7:139-46.

With W. Graessley

A relation between positive phase shift and elastic modulus enhancement of smooth muscle. *Experientia*, 25:145-47.

Mathematical development of a physical model of a muscular contractile element. *NASA-MIT Conference on Manual Control*, 215:523-40.

Mathematical development and solution of a physical model for muscular contractile element. *Proceedings of the 7th Annual Symposium on Biomathematics*, 7:32-33.

With Elsa Marquez

A relation between hysteresis and other visco-elastic properties of some biomaterials. *Biorheology*, 5:285-301.

Reviews

Introduction to medical decision making, by Lee B. Lusted. *Review of Surgery*, 26, 4:298.

Bulletins and Technical Reports

With M. R. Krainer

Radiotherapy follow-ups file. Program 06T9306 (IBM System 360-PL/1). Argonne National Laboratory Applied Mathematics Division, Argonne, Illinois, 9 pp.

BADER, KARL F., Assistant Professor

Articles

Cutaneous and subcutaneous tumors. In *Manual of surgical therapeutics*, ed. by Condon and Nyhus, Little, Brown and Co., Boston, pp. 323-34.

With J. W. Curtin

Improved techniques for the successful silicone reconstruction of the external ear. *Journal of Plastic and Reconstructive Surgery*, 44:372-77.

BARONE, ROBERT M., Instructor

Articles

Care of drains and tubes. In *Manual of surgical therapeutics*, ed. by Condon and Nyhus, Little, Brown & Co., Boston, pp. 134-44.

BAUMRUCKER, GEORGE O., Associate
Clinical Professor of Urology

Books

Tur, technique, hazards and pitfalls. Williams and Wilkins Co., Baltimore, 150 pp.

BLACK, SIDNEY, Clinical Assistant Professor

Reviews

Descriptive atlas of surgical anatomy, by I. Rehman and N. Hiatt. *Review of Surgery*, 26:151.

BRANCH, CHARLES D., Clinical Associate
Professor

Articles

Atlas of precautionary measures in general surgery. *Surgery, Gynecology and Obstetrics*, 129:591-92.

Manual of preoperative and postoperative care. *Ibid.*, 127:366-67.

Repair of hernias. *Ibid.*, 130:369-70.

CONDON, ROBERT E., Professor

Books Edited

With L. E. Gelin, L. M. Nyhus

Abdominal pain: a guide to rapid diagnosis. J. P. Lippincott Co., Philadelphia, 129 pp.

With L. M. Nyhus

Manual of surgical therapeutics. Little, Brown & Co., Boston, 379 pp.

Articles

Other diseases of the stomach and duodenum. In *Surgery of the stomach and duodenum*, 2nd ed., ed. by Harkins and Nyhus, Little, Brown and Co., Boston, pp. 425-66.

Fluid and electrolyte therapy. In *Manual of surgical therapeutics*, ed. by Condon and Nyhus, Little, Brown & Co., Boston, pp. 171-98.

Isolation procedures. *Ibid.*, pp. 120-23.

Splenectomy. *Ibid.*, pp. 291-97.

With Y. S. Kim

Evaluation and treatment of trauma: vascular and extremity injury. *Ibid.*, pp. 31-38.

With C. T. Bombeck

Pulmonary embolus. *Ibid.*, pp. 208-18.

With H. G. Zacheis

Intestinal obstruction. *Ibid.*, pp. 273-89.

With L. W. Kendall

Prediction of malignancy in solitary thyroid nodules. *Lancet*, 1:1071-73.

With P. H. Jordan, Jr.

Immediate postoperative prosthesis in vascular amputations. *Annals of Surgery*, 170: 435-47.

Reviews

The early diagnosis of the acute abdomen, by Z. Cope. *Review of Surgery*, 26:222.

Surgery of the acute abdomen, by J. Shepherd. *Gastroenterology*, 56:1006.

COOLEY, JACK C., Clinical Assistant
Professor

Articles

Systemic disease in traumatic splenic rupture. *Illinois Medical Journal*, 136:177-79.

CURTIN, JOHN W., Clinical Professor and
Head of Plastic Surgery

Articles

With P. H. Holinger

Automobile fractures of the larynx and upper trachea. *Bulletin de la Société Internationale de Chirurgie*, 28, 1:35-46.

With P. W. Greeley

Radical surgical approach to chronic suppurative hildradentitis of axillae, perianal and perigenital regions. *Ibid.*, pp. 58-64.

With K. Bader, J. Ellenby

Improved techniques for successful silicone reconstruction of the external ear. *Journal of Plastic and Reconstructive Surgery*, 44, 4:372-77.

DAS GUPTA, TAPAS K., Associate Professor

Articles

Tumor of adipose tissue. *Cancer—A Cancer Journal for Clinicians*, 19:3-7.

Suppression of development of pineal gland by multiple pineal transplants in pre-pubertal rats. *Acta Anatomica*, 73:142-47.

With R. D. Brasfield

Desmoids of the anterior abdominal wall. *Surgery*, 65:241-46.

Amputation neuroma in cancer patients. *New York Journal of Medicine*, 69:2129-32.

With R. D. Brasfield, M. A. Paglia

Primary melanomas in unusual sites. *Surgery, Gynecology and Obstetrics*, 128:841-48.

With R. D. Brasfield, J. O'Hara

Extra-abdominal desmoids. *Annals of Surgery*, 170:109-21.

With R. D. Brasfield, E. Strong

Benign solitary schwannomas neurilemmas. *Cancer*, 24:355-66.

With H. W. Whitely, Jr.

Role of preoperative irradiation in simulated colon cancer. *Archives of Surgery*, 99: 141-48.

DYE, WILLIAM S., Clinical Professor

Articles

With H. Najafi, H. Javid, J. A. Hunter, O. C. Julian

Management of infected arterial implants. *Surgery*, 65:539-47.

Emergency open heart surgery for acquired heart disease. *Diseases of the Chest*, 55, 6:456-61.

With H. Najafi, H. Javid, J. A. Hunter,

W. E. Ostermiller, O. C. Julian

Postmyocardial infarction left ventricular aneurysm: surgical management. *Archives of Surgery*, 98:766-70.

One stage surgical correction of carotid stenosis and ipsilateral subclavian steal. *Archives of Surgery*, 99:289-92.

Mitral valve replacement: review of seven years' experience. *American Journal of Cardiology*, 24, 3:386-92.

With H. Najafi, D. Henson, H. Javid, J. A. Hunter, and others

Left ventricular hemorrhagic necrosis. *The Annals of Thoracic Surgery*, 7, 6:550-61.

With H. Javid, H. M. Tufo, H. Najafi,

J. A. Hunter, O. C. Julian

Neurological abnormalities following open heart surgery. *Journal of Thoracic and Cardiovascular Surgery*, 58, 4:502-07.

With H. Najafi, W. E. Ostermiller, H. Javid, J. A. Hunter, O. C. Julian

Narrow aortic root complicating aortic valve replacement. *Archives of Surgery*, 99: 690-94.

GREELEY, PAUL W., Clinical Professor of Plastic Surgery

Articles

With J. W. Curtin

Radical surgical approach to chronic suppurative

hidradentitis of axillae, perianal and perigenital regions. *Bulletin de la Société Internationale De Chirurgie*, 28, 1:58-64.

HUNTER, JAMES A., Clinical Associate Professor

Articles

With H. Najafi, H. Javid, W. S. Dye, O. C. Julian

Management of infected arterial implants. *Surgery*, 65:539-47.

With H. Najafi, W. S. Dye, H. Javid, W. E. Ostermiller, O. C. Julian

Post myocardial infarction left ventricular aneurysm: surgical management. *Archives of Surgery*, 98:766-70.

One stage surgical correction of carotid stenosis and ipsilateral subclavian steal. *Archives of Surgery*, 99:289-92.

Mitral valve replacement: review of seven years' experience. *American Journal of Cardiology*, 24, 3:386-92.

With H. Najafi, D. Henson, W. S. Dye, H. Javid, and others

Left ventricular hemorrhagic necrosis. *The Annals of Thoracic Surgery*, 7, 6:550-61.

With H. Najafi, W. S. Dye, H. Javid, O. C. Julian

Emergency open heart surgery for acquired heart disease. *Diseases of the Chest*, 55, 6:456-61.

With H. Javid, H. M. Tufo, H. Najafi, W. S. Dye, O. C. Julian

Neurological abnormalities following open heart surgery. *Journal of Thoracic and Cardiovascular Surgery*, 58, 4:502-07.

With H. Najafi, W. E. Ostermiller, H. Javid, W. S. Dye, O. C. Julian

Narrow aortic root complicating aortic valve replacement. *Archives of Surgery*, 99: 690-94.

JAVID, HUSHANG, Professor

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With H. Najafi, J. E. Cagle, O. C. Julian

Bilateral carotid arteriography: its adequacy in cerebrovascular insufficiency evaluation. *Archives of Surgery*, 98:53-56.

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Management of infected arterial implants. *Surgery*, 65:539-47.

Emergency open heart surgery for acquired heart disease. *Diseases of the Chest*, 55, 6:456-61.

With H. Najafi, W. S. Dye, J. A. Hunter, W. Ostermiller, O. C. Julian

Post myocardial infarction left ventricular aneurysm: surgical management. *Archives of Surgery*, 98:766-70.

One stage surgical correction of carotid stenosis and ipsilateral subclavian steal. *Archives of Surgery*, 99:289-92.

Mitral valve replacement: review of seven years' experience. *American Journal of Cardiology*, 24, 3:386-92.

With H. Najafi, D. Henson, W. S. Dye, J. A. Hunter, and others

Left ventricular hemorrhagic necrosis. *The Annals of Thoracic Surgery*, 7, 6:550-61.

With H. M. Tufo, H. Najafi, W. S. Dye,

J. A. Hunter, O. C. Julian

Neurological abnormalities following open heart surgery. *Journal of Thoracic and Cardiovascular Surgery*, 58, 4:502-07.

With H. Najafi, W. E. Ostermiller, W. S. Dye, J. A. Hunter, O. C. Julian

Narrow aortic root complicating aortic valve replacement. *Archives of Surgery*, 99: 690-94.

With P. H. Nennhaus

The distinct syndrome of spontaneous abdominal aortocaval fistula. *American Journal of Medicine*, 44:464-73.

JONASSON, OLGA, Assistant Professor

Articles

Kidney transplantation. In *Manual of surgical therapeutics*, ed. by Condon and Nyhus, Little, Brown & Co., Boston, pp. 167-70.

With J. Raffensperger

Pediatric surgery. *Ibid.*, pp. 335-53.

With W. G. Manax, O. C. Julian, T. C. Baffes

Organ transplants. Panel Discussion. American association of railway surgeons, Chicago, Illinois. *Industrial Medicine*, 12, 38: 23-30.

JULIAN, ORMAND C., Professor of Surgery

Articles

With H. Najafi, J. E. Cagle, H. Javid

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With H. Najafi, H. Javid, W. S. Dye, J. A. Hunter

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With H. Najafi, W. S. Dye, H. Javid, J. A. Hunter, W. E. Ostermiller

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One stage surgical correction of carotid stenosis and ipsilateral subclavian steal. *Archives of Surgery*, 99:289-92.

Mitral valve replacement: review of seven years' experience. *American Journal of Cardiology*, 24, 3:386-92.

With H. Najafi, D. Henson, W. S. Dye, H. Javid, and others

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With H. Javid, H. M. Tufo, H. Najafi, W. S. Dye, J. A. Hunter

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Myocardial lesions following open heart surgery. *Archives of Pathology*, 88:423-30.

With H. Najafi, W. E. Ostermiller, H. Javid, W. S. Dye, J. A. Hunter

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KNOCK, FRANCES, Clinical Assistant

Professor

Articles

With R. M. Galt, Y. T. Oester, R. Sylvester

Cancer chemotherapy aimed at potential cell

regulators. *Journal of the American Medical Association*, 208:534.

With R. M. Galt, Y. T. Oester

Attack on animal and human cancers by selected sulphydryl inhibitors. *Bulletin de Chimie Thérapeutique*, 1:10.

With R. M. Galt, Y. T. Oester, R. Sylvester, M. Rubnitz, A. Dakin

A mechanism of action for colchicine, demecolcin, mitomycin C and actinomycin D. In *Proceedings of the 5th international symposium on the chemistry of natural products*, London, pp. 96-97.

KUKRAL, JOHN C., Associate Professor

Articles

Protein synthesis by the human exocrine pancreas. *Proceedings XVI Colloquial Proteins Biological Fluids*, 16:499-509.

With R. Zeineh, W. Dobryszczyka, J. Pollitt, N. Stone

Metabolism of plasma proteins in injury states, I. Turnover rates of fibrinogen in burned patients labelled with (³⁵S) methionine. *Clinical Science*, 36:221-30.

With J. M. Brandly, B. A. Fritsch, N. Stefanovic, G. C. Henegar

Total body composition in cirrhotic patients with metabolic alkalosis, hypokalemia, hyperammonemia, and portacaval shunt. *The American Journal of Surgery*, 117: 85-90.

With W. Dobryszczyka, R. Zeineh, E. Ebroon

Metabolism of plasma proteins in injury states, II. Incorporation of (¹⁴C) glucosamine and (³⁵S) methionine into human and canine haptoglobin. *Clinical Science*, 36:231-40.

Glucosamine and (³⁵S) methionine into human and canine haptoglobin. *Ibid.*, pp. 231-40.

With W. Dobryszczyka, A. Pusztai

Reactivity of tyrosine and tryptophan residues in haptoglobin. *Biochimica et Biophysica Acta*, 175:271-81.

LANGSTON, HIRAM T., Professor

Articles

Why not the whole truth? *Surgery, Gynecology and Obstetrics*, 128:1065-66.

With G. Milles, W. D. Alessandro

Autologous transfusion. *Review of Surgery*, 26:305-10.

With B. J. Leininger, W. L. Barker

A simplified method for management of malignant effusion. *Journal of Thoracic and Cardiovascular Surgery*, 58:758-63.

LONG, DAVID M., Professor

Articles

Chest injury. In *Manual of surgical therapeutics*, ed. by Condon and Nyhus, Little, Brown and Co., Boston, pp. 280-89.

With R. Kessler

Respiratory insufficiency. *Ibid.*, pp. 280-89.

MANAX, WILLIAM G., Associate Professor

Articles

With R. C. Lillehei

Developments and progress in organ preservation. In *Surgery annual*, ed. by Cooper, Appleton-Century-Crofts, New York, pp. 207-37.

Transplantation of the intestine. In *Diseases of the colon and anorectum*, ed. by Turrell, W. B. Saunders, Philadelphia, pp. 1310-25.

MASON, J. H., Associate Professor

Articles

Systemic effects of cancer chemotherapy. In *Manual of surgical therapeutics*, ed. by Condon and Nyhus, Little, Brown and Co., Boston, pp. 161-67.

MILLER, BURTON, Instructor

Articles

Septicemia. In *Manual of surgical therapeutics*, ed. by Condon and Nyhus, Little, Brown and Co., Boston, pp. 118-20.

Routine orders. *Ibid.*, pp. 125-30.

MONROE, CLARENCE W., Clinical Assistant Professor

Articles

The nose, cleft lip and palate, the ear. In *Pediatric surgery* (3rd ed.), ed. by Swanson, Appleton-Century Crofts, New York, pp. 205-63.

MOSS, GERALD S., Assistant Professor

Articles

With N. J. Proctor, L. D. Homer, B. D. Litt
Changes in lung compliance in experimental hemorrhagic shock and resuscitation. *Annals of Surgery*, 196:82.

With L. D. Homer, C. M. Herman

Errors in the measurement of cardiac output with dye dilution curves in shock. *Journal of Applied Physiology*, 27:101.

Right atrial and pulmonary artery pressure as indicators of left atrial pressure during fluid therapy following hemorrhagic shock in the baboon. *Annals of Surgery*, 170: 801.

With W. Schumer, L. M. Nyhus

Metabolism of lactic acid in the Macacus Rhesus monkey in profound shock. *American Journal of Surgery*, 118:200.

With N. J. Proctor, L. D. Homer, C. M. Herman

A comparison of saline, colloid, or whole blood in the treatment of hemorrhagic shock. *Surgery, Gynecology and Obstetrics*, 129: 1247.

Massive transfusion of frozen processed red cells in combat casualties. *Surgery*, 66: 1008.

With P. R. Erve, W. Schumer

Endotoxin effect on liver mitochondrial function. *Surgical Forum*, 20:24.

MRAZEK, RUDOLPH G., JR., Clinical Associate Professor

Articles

Palliative chemotherapy for abdominal visceral cancer. In *Abdominal operations*, ed. by Maingot, Appleton-Century-Crofts, New York, pp. 1777-79.

NAJAFI, HASSAN, Clinical Associate Professor

Articles

With J. E. Cagle, H. Javid, O. C. Julian
Bilateral carotid arteriography: its adequacy in cerebrovascular insufficiency evaluation. *Archives of Surgery*, 98:53-56.

With H. Javid, W. S. Dye, J. A. Hunter, O. C. Julian

Management of infected arterial implants. *Surgery*, 65:539-47.

With W. S. Dye, H. Javid, J. A. Hunter, W. Ostermiller, O. C. Julian

One stage surgical correction of carotid stenosis and ipsilateral subclavian steal. *Archives of Surgery*, 99:289-92.

Mitral valve replacement: review of seven years' experience. *American Journal of Cardiology*, 24, 3:386-92.

Post myocardial infarction left ventricular aneurysm: surgical management. *Archives of Surgery*, 98:766-70.

With D. Henson, W. S. Dye, H. Javid, J. A. Hunter, and others

Left ventricular hemorrhagic necrosis. *The Annals of Thoracic Surgery*, 7, 6:550-61.

With W. S. Dye, H. Javid, J. A. Hunter, O. C. Julian

Emergency open heart surgery for acquired heart disease. *Disease of the Chest*, 55, 6:456-61.

With H. Javid, H. M. Tufo, W. S. Dye, J. A. Hunter, O. C. Julian

Neurological abnormalities following open heart surgery. *Journal of Thoracic and Cardiovascular Surgery*, 58, 4:502-07.

With R. A. Carleton, S. J. Heller, J. G. Clark
Hemodynamic performance of a transplanted human heart. *Circulation*, 60:447-52.

With W. E. Ostermiller, H. Javid, W. S. Dye, J. A. Hunter, O. C. Julian

Narrow aortic root complicating aortic valve replacement. *Archives of Surgery*, 99:690-94.

With D. E. Henson, R. Callaghan, P. Coogan, O. C. Julian

Myocardial lesions following open heart surgery. *Archives of Pathology*, 88:423-30.

NICHOLS, RONALD L., Instructor

Articles

Peritonitis. In *Manual of surgical therapeutics*, ed. by Condon and Nyhus, Little, Brown and Co., Boston, pp. 114-18.

Fever. *Ibid.*, pp. 199-202.

Aspiration pneumonia. *Ibid.*, pp. 205-08.

NYHUS, LLOYD M., Professor and Head of Department

Books Edited

With H. N. Harkins

Surgery of the stomach and duodenum (2nd ed.). Little, Brown and Co., Boston, 938 pp.

With L. E. Gelin, R. E. Condon

Abdominal pain: a guide to rapid diagnosis. J. B. Lippincott Co., Philadelphia, 129 pp.

With R. E. Condon

Manual of surgical therapeutics. Little, Brown & Co., Boston, 379 pp.

Articles

Gastric ulcer. In *Surgery of the stomach and duodenum* (2nd ed.), ed. by Harkins and Nyhus, Little, Brown & Co., Boston, pp. 203-16.

Stomal ulcer. *Ibid.*, pp. 259-71.

Massive upper gastrointestinal hemorrhage. *Ibid.*, pp. 787-812.

Angewandte magenphysiologie in der ulkus-chirurgie. *Munchen Medizinische Wochenschrift*, 31:1595-99.

With J. Rudick, N. D. Chapman

Gastroduodenal physiology. In *Surgery of the stomach and duodenum* (2nd ed.), ed. by Harkins and Nyhus, Little, Brown & Co., Boston, pp. 53-107.

With C. T. Bombeck, T. Aoki, E. A. Smuckler
The effect of halothane, ether, and chloroform on the isolated, perfused bovine liver. A comparative study. *American Journal of Surgery*, 117:91-107.

With M. Mignon, L. S. Semb, T. L. Fletcher, H. N. Harkins

Effects of gastrin on acid and pepsin secretion in pylorus-ligated rats. *Scandinavian Journal of Gastroenterology*, 4:33-77.

With W. Schumer, G. S. Moss

Metabolism of lactic acid in the Macacus Rhesus monkey in profound shock. *American Journal of Surgery*, 118:200-05.

With R. J. Baker, S. L. Moinichen

Transfusion reaction: a reappraisal of surgical incidence and significance. *Annals of Surgery*, 169:684-93.

With A. G. Pissidis, C. T. Bonbeck, F. Merchant

Hormonal regulation of bile secretion: a study in the isolated, perfused liver. *Surgery*, 66:1075-84.

OLWIN, JOHN H., Clinical Professor

Articles

With R. M. Lycette, W. F. Danforth, J. L. Koppel

A new method for determining the size of platelet aggregates. *American Journal of Clinical Pathology*, 51:445-50.

PUESTOW, CHARLES B., Clinical Professor

Articles

Longitudinal pancreaticojejunostomy. In *Abdominal operations* (5th ed.), ed. by Maingot, Appleton-Century-Crofts, New York, pp. 713-23.

RAFFENSPERGER, JOHN C., Associate Professor

Articles

Pediatric surgery. In *Manual of surgical therapeutics*, ed. by Condon and Nyhus, Little, Brown & Co., Boston, pp. 335-53.

Special comment. In *Surgery of the stomach and duodenum*, ed. by Harkins and Nyhus, Little, Brown & Co., Boston, pp. 383-85.

Gastrostomy. In *Current pediatric therapy*, ed. by Gellis and Kagan, W. B. Saunders Co., Philadelphia, pp. 389-91.

A review of the first textbook of pediatric surgery in the English language. *Journal of Pediatric Surgery*, 4:403-05.

With S. Vengusamy, R. S. Pildes, H. D. Levine, M. Cornblath

A controlled study of feeding gastrostomy in low birth weight infants. *Pediatrics*, 43: 815-20.

With W. Metzger

Antibiotic therapy for perforated appendicitis in children. *The Chicago Medical School Quarterly*, 28:179-83.

With G. Angress

Perforation of the caecum by blunt abdominal trauma. *Illinois Medical Journal*, 136:179-83.

Reviews

Synopsis of surgery, by Richard D. Liechty and Robert T. Soper. *Journal of the American Medical Association*, 210:1153.

Tumors in children, by F. Rehbein. *Ibid.*, p. 910.

Neonatal surgery, by P. P. Rickham and J. H. Johnston. *Ibid.*, pp. 1766-67.

ROESEL, RUDOLPH W., Clinical Assistant Professor

Articles

Gas gangrene of abdominal wall after appen-

dectomy. *Illinois Medical Journal*, 136, 5:580-83.

SADOVE, MAX S., Professor of Anesthesiology

Articles

Evaluation of oxygen therapy devices by arterial oxygen tensions. *Diseases of the Chest*, 56:356-59.

SCHULTZ, RICHARD C., Clinical Assistant Professor

Articles

Intraoral reconstruction of soft tissue defects. In *Year book of dentistry*. Year Book Medical Publishers, Chicago, pp. 446-49.

Surgical Safari of East Africa. *Proceedings of Institute of Medicine of Chicago*, 27: 259.

Reviews

Cranial facial anomalies: pathogenesis and repair, by J. J. Longacre. *Review of Surgery*, 26:287.

SCHUMER, WILLIAM, Professor

Articles

Shock and hypotension. In *Manual of surgical therapeutics*, ed. by Condon and Nyhus, Little, Brown and Co., Boston, pp. 379.

Dexamethasone in oligemic shock: physiochemical effects in monkeys. *Archives of Surgery*, 93:259-61.

The use of red cell mass potassium as a therapeutic parameter in postoperative patients. *Annals of Surgery*, 170:281-85.

With L. M. Nyhus

The role of corticoids in the management of shock. *Surgical Clinics of North America on Endocrine Surgery*, 49:147-62.

Metabolism of lactic acid in the Macacus Rhesus monkey in profound shock. *American Journal of Surgery*, 118:200.

With J. J. Smalley

Corticoid effect on biochemical parameters of human shock. *Proceedings of the Institute of Medicine*, 27:255.

With S. K. Kapica, P. Erve

Validity of the lysosomal theory of irreversibility in oligemic shock. *Archives of Surgery*, 99:225-329.

With G. S. Moss, P. Erve

Endotoxin effect on liver mitochondrial function. *Surgical Forum*, 20:24-25.

SOUTHWICK, HARRY W., Clinical Professor

Books

With D. P. Slaughter, L. J. Humphrey

Surgery of the breast. Year Book Publishers, Chicago, 229 pp. 1968.

Articles

The breast. In *Lewis' practice of surgery*, ed. by Paul and Cole, Hoeber Medical Division-Harper & Row Publishers, Inc., Hagerstown, Maryland, pp. 1-53.

With W. H. Cole

Prophylactic and adjuvant measures in the treatment of carcinoma of the colon. In *Diseases of the colon and anorectum* (2nd ed.), ed. by Turrell, W. B. Saunders, Philadelphia, pp. 453-77.

With O. P. Steinwald, Jr., A. Doolas

Pheochromocytoma. *The Surgical Clinics of North America*, 49, 1:87-98.

STROHL, E. LEE, Professor

Articles

With W. G. Diffenbaugh

The historical background of the gridiron or muscle-splitting incision for appendectomy. *Illinois Medical Journal*, 135:287-88.

Reviews

Nelson and his surgeons: Nelson chirurgique, by P. D. Gordon Pugh. *Surgery, Gynecology and Obstetrics*, 129:1289-90.

Principles of surgery — a new approach (rev. ed.), by D. J. DuPlessis. *Medical World News*, p. 35.

Atlas of precautionary measures in general surgery, by Ivan D. Baronofsky. *Clinical Medicine*, p. 281.

WEINBERG, M., Clinical Associate Professor

Articles

With J. J. Amato, R. M. Vanecko, S. T. Yao
Emergency approach to the subclavian and innominate vessels. *The Annals of Thoracic Surgery*, 8, 6:537-41.

WIGGISHOFF, CÝRIL C., Clinical Associate Professor

Articles

With J. H. McDonald

Urinary exfoliative cytology in tumors of the kidney and ureter. *Journal of Urology*, 102: 170-71.

Exfoliative cytology in the diagnosis of renal tumors. *Urologia Panamanienne*, 1, 2:81-84.

Reviews

Life after fifty, by H. M. Weyrauch. *Review of Surgery*, 26:21.

ZEINEH, RASHID A., Research Associate

Articles

With W. Dobryszcka, R. Zeineh, E. Ebroon, J. C. Kukral

Metabolism of plasma proteins in injury states, I. Turnover rates of fibrinogen in burned patients labelled with (³⁵S) methionine. *Clinical Science*, 36:221-30.

Metabolism of plasma proteins in injury states, II. Incorporation of (¹⁴C) glucosamine and (³⁵S) methionine into human and canine haptoglobin. *Ibid.*, pp. 231-40.

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A black and white photograph of a winter landscape. The scene is dominated by snow-covered trees and a path. The trees are dark against the white snow, and their branches are heavily laden with snow. The path is a narrow, snow-covered trail that winds through the trees. The overall atmosphere is quiet and serene.

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annual list

January 1 through December 31, 1970

PUBLICATIONS OF THE FACULTY

and titles of doctoral dissertations

COVER:

ISLAND BEACH, by Edward Betts
Painting in acrylic polymer, 18" x 24"

Edward Betts, Professor of Art at the University of Illinois, holds a B.A. degree in History of Art from Yale University and an M.F.A. in Painting from the University of Illinois.

He has been represented in virtually every important national exhibition, including the Corcoran Biennials of Contemporary American Painting, American Painting Today at the Metropolitan Museum of Art, Whitney Museum Annual, Brooklyn Museum International Watercolor Exhibitions, Pennsylvania Academy Annuals, and the National Institute of Arts and Letters, as well as international exchange exhibitions in England, Brazil, Mexico, and Japan. He has held eighteen one-man shows in New York City, Chicago, Boston, Philadelphia, and Exeter, New Hampshire.

Among the major awards he has received are the \$2,000 First Altman Landscape Prize at the National Academy of Design in 1957, 1959, and again in 1966; Silver Medals of Honor at the American Watercolor Society exhibitions in 1953 and 1959; California Watercolor Society Purchase Award in 1957, and two medals at the Philadelphia Watercolor Club in 1954 and 1955.

Paintings by Mr. Betts are included in the permanent collections of the Fogg Museum of Art, National Academy of Design, Butler Institute of American Art, Virginia Museum of Fine Arts, Atlanta University, La Jolla Art Center, the Walter Chrysler Art Museum, and others.

The subject matter of Mr. Betts' paintings is almost exclusively the coast of Maine, where he spends his summers.

UNIVERSITY OF ILLINOIS annual list

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Books

The future of accounting in a changing society. Stipes Publishing Co., Champaign, Illinois, 101 pp.

Books Edited

With R. Wixon, W. G. Kell

Accountants' handbook, fifth ed. Ronald Press, New York, 1,524 pp.

Articles

Goodwill. In *Handbook of modern accounting*, ed. by Sidney Davidson, McGraw-Hill Book Co., New York, pp. 19.1-19.24.

A critique of the symposium. In *Behavioral aspects of accounting data for performance evaluation*, ed. by T. J. Burns, Ohio State University, Columbus, pp. 317-29.

Information: the accounting product. In *Dr. Scott memorial lectures in accountancy*, vol. 2, University of Missouri, Columbia, pp. 39-50.

Expanding opportunities in accounting practice. *Accountants' Journal of New Zealand*, 48, 9:361-65.

Bulletins and Technical Reports

Presidents' report. *The Accounting Review*, 45, 3:589-92.

Reviews

The efficiency of business enterprises, by L. R. Amey, *Ibid.*, 2:382-85.

BRIGHTON, GERALD D., Professor

Reviews

The personal exemptions in the income tax, by Lawrence H. Seltzer. *The Accounting Review*, 45, 2:423-24.

DESKINS, JAMES W., Associate Professor

Articles

Receivables. In *Accountants' handbook*, ed. by Wixon, Kell, and Bedford, The Ronald Press Company, New York, pp. 11.1-11.63.

With E. L. Summers

A classification schema of methods for reporting effects of resource price changes. *Journal of Accounting Research*, 8, 1:113-17.

With F. L. Neumann, L. S. Revsine

A research methodology course for accountants. *The Accounting Review*, 45, 4:789-95.

DICKEY, ROBERT I., Professor

Articles

Greetings: American education for accountancy. In *Proceedings of the second international conference on accounting education 1967*, ed. by Eric F. Castle, Eric F. Castle, London, pp. 17-18, 102-13.

Reviews

A history of accounting and accountants, by Richard Brown. *The Journal of Accountancy*, 129, 2:92-93.

FESS, PHILIP E., Professor

Articles

Divisional reporting by diversified corporations: an accountant's view. In *Conglomerate mergers and acquisitions—opinions and analysis*, ed. by St. John's Law Review, St. John's Law Review Association, Brooklyn, New York, pp. 940-45.

Educational opportunities for disadvantaged groups. *The Journal of Accountancy*, 129, 10:102-3.

With K. L. Fox

Procedures in determining earnings per share. *Ibid.*, 1:52-56.

Historical earnings-per-share data for purposes of projections. *Ibid.*, 5:38-40.

HOLZER, H. PETER, Professor

Articles

Economic development and accounting. *Thai Journal of Development Administration*, July: 15-27, 1969.

Accounting—an international language. In *Proceedings of the Accounting Seminar at Thammasat University*, Bangkok, Spring: 18-28, 1969.

Taxation and accounting in Thailand. *Accountants Journal*, September:41-45, 1969.

Das Bankwesen Thailand I, Die Zentralbank. *Oesterr. Bank-Archiv*, January:16-27.

Das Bankwesen Thailand II, Die Depositenbanken. *Ibid.*, February:42-52.

The role of accountants in the economic development of Thailand. *Accountants Journal*, March:213-18.

MAUTZ, ROBERT K., Professor

Books

With F. L. Neumann

Corporate audit committees. Bureau of Economic and Business Research, University of Illinois, Urbana, 162 pp.

Articles

Basic concepts of accounting. In *Handbook of modern accounting*, ed. by Sidney Davidson, McGraw-Hill Book Co., New York, pp. 1-15.

With J. Gray

Some thoughts on research needs in accounting. *The Journal of Accountancy*, 130, 3: 54-62.

With F. L. Neumann

The effective corporate audit committee. *Harvard Business Review*, 48, 6:57-65.

NEUMANN, FREDERICK L., Associate Professor

Books

With R. K. Mautz

Corporate audit committees. Bureau of Economic and Business Research, University of Illinois, Urbana, 162 pp.

Articles

Disclosure of changes in accounting methods. *The Ohio CPA*, 29, 4:154-62.

With R. K. Mautz

The effective corporate audit committee. *Harvard Business Review*, 48, 6:57-65.

With J. W. Deskins, L. S. Revsine

A research methodology course for accountants. *The Accounting Review*, 45, 4:789-95.

REVSINE, LAWRENCE S., Associate Professor

Articles

On the correspondence between replacement cost income and economic income. *The Accounting Review*, 45, 3:513-23.

Data expansion and conceptual structure. *Ibid.*, 4:704-11.

With J. W. Deskins, F. L. Neumann

A research methodology course for accountants. *Ibid.*, pp. 789-95.

SCHOENFELD, HANNS-MARTIN W.,
Professor

Books

- Kostenrechnung II. C. E. Poeschel Verlag, Stuttgart, 147 pp.
Kostenrechnung I (fifth ed.). *Ibid.*, 122 pp.

Articles

- Personal Planung. In *Agplan-Handbuch für Unternehmensplanung*, ed. by J. Fuchs and K. Schwantag, Erich Schmidt Verlag, Berlin, pp. 1-71.
Grenzen innerbetrieblicher Ansbildung. *TED — Training and Education in Distribution Journal*, 1, 1:30-37.
New German regulations for the publication of financial statements. *The International Journal of Accountancy*, 5, 2:69-88.

SKADDEN, DONALD H., Professor

Books

- Federal income taxation: a student workbook (rev. ed.). Stipes Publishing Co., Champaign, Illinois, 190 pp.

Articles

- American professional survey. *The Accountants' Journal*, 48, 6:244-48.
Uniform cost accounting standards. *Ibid.*, 10: 419-23.
American professional survey. *Ibid.*, 49, 5: 197-201.

Reviews

- CPA examination: a comprehensive review, by Langenderfer and Yager. *Ibid.*, 45, 2:413-15.

ZIMMERMAN, VERNON K., Professor

Reviews

- U.S. controls on foreign direct investment: a re-evaluation, by Raymond Vernon. *The Accounting Review*, 45, 2:424-25.

DOCTORAL DISSERTATIONS

- Agami, Abdelmoneim Mohamed (N. M. Bedford, Adviser), An inquiry into the cost and value of managerial accounting information.
Baron, Charles D. (N. M. Bedford, Adviser), Local governmental program planning for regional economic development: an analysis of accounting data requirements.
El-Adly, Yousef Awad (W. E. Thomas, Adviser), A critical analysis of the feasibility and usefulness of using shadow prices in accounting measurement.
Haried, Andrew A. (N. M. Bedford, Adviser), An inquiry into the semantic problems of external accounting communication: a comparative study of research techniques.
Lunn, Huey N. (W. E. Thomas, Adviser), A theoretical model for reporting accountability of shared responsibilities in complex multi-goal organizations.
Martin, Spencer J. (E. J. DeMaris, Adviser), Possible tax impact on decisions to merge or sell-out — closely-held corporations.
Ogunde, Babatunde O. (V. K. Zimmerman, Adviser), Accounting and economic development: the case of Nigeria.
Winjum, James O. (V. K. Zimmerman, Adviser), The role of accounting in the economic development of England: 1500 to 1750.

ADMISSIONS AND RECORDS, OFFICE OF

DREMUK, RICHARD, Associate Director

Articles

- With R. G. Wiltsey
Northwestern University. In *Case studies of*

admissions and fellowship selection policies and procedures, Graduate Record Examinations Board, Princeton, New Jersey, pp. 41-65.

With H. C. Scudder

University of California at Los Angeles. *Ibid.*, pp. 67-86.

With J. B. Slocum

Financial aid for foreign students. In *Manual for financial aid officers*, College Scholarship Service of College Entrance Examination Board, New York, pp. 4/5-4/15.

ADVANCED STUDY, CENTER FOR

BERNSTEIN, BARTON J., Fellow

Books Edited

Politics and policies of the Truman administration. Quadrangle, Chicago, 330 pp.

Articles

American foreign policy and the origins of the cold war. In *Politics and policies of the Truman administration*, ed. by Barton J. Bernstein, Quadrangle, Chicago, pp. 15-77.
The ambiguous legacy: the Truman administration and civil rights. *Ibid.*, pp. 269-314.

Reviews

Present at the creation: my years in the state department, by Dean Acheson. *Progressive*, 34, 3:44-46.

The roots of the modern American empire: a study of the growth and shaping of social consciousness in a marketplace society, by William A. Williams. *Ibid.*, 6:45-48.

The transformation of American foreign policy, by Charles Bohlen. *Ibid.*, 8:39-42.

Roosevelt: the soldier of freedom, 1940-1945, by James MacGregor Burns. *Ibid.*, 12:41-42.

The Korean war and American politics: the Republican party as a case study, by Ronald J. Caridi. *Pacific Northwest Quarterly*, 61, 4:236.

Harry Elmer Barnes, learned crusader: the new history in action, ed. by Arthur Goddard, *American Historical Review*, 75, 3: 947-48.

Desegregation of the U.S. armed forces: fighting on two fronts, 1939-1953, by Richard Dalfume. *Ibid.*, p. 957.

Concerns of a conservative democrat, by Charles Sawyer. *Journal of American History*, 67, 1:210-11.

Change and continuity in twentieth-century America: the 1920's, ed. by John Braeman and others. *Journal of Southern History*, 36, 2:306-8.

COTTLE, THOMAS J., Fellow

Books Edited

With M. R. Wertheimer

Confrontation: psychology and the problems of today. Scott, Foresman, Glenview, Illinois, 408 pp.

Articles

The mosaic of creativity. *Change Magazine*, 2, March-April:20-31.

Strike week in Chicago. *Ibid.*, July-August: 19-28.

Simple words, simple deeds. *Urban Education*, 5, October:295-304.

With C. N. Edwards, J. Pleck

The relationship of sex role identity and social and political attitudes. *Journal of Personality*, 38, 3:435-52.

Reviews

The failure of success: the middle class crisis, by Esther Milner. *Contemporary Psychology*, 15, May:321-22.

Causes of delinquency, by Travis Hirschi. *Harvard Educational Review*, 40, 4:676-81.

HOLMES, ROBERT L., Fellow

Articles

Kim on Kant's supreme principle of morality. *Kant's-Studien*, 61, 3:393-96.

MEEKER, MICHAEL E., Fellow

Reviews

La Famille musulmane turque: son évolution au 20^e siècle, by Sabine Dirks. *American Anthropologist*, 72, 6:1522-24.

MELSON, ROBERT, Fellow

Articles

Nigerian politics and the general strike of 1964. In *Protest and power in black Africa*, ed. by Rotberg and Mazrui, Oxford University Press, New York, pp. 771-88.

With H. Wolpe

Modernization and the politics of communalism. *American Political Science Review*, 64, 4:1112-30.

O'BRIEN, DARCY, Fellow

Books

W. R. Rodgers. Bucknell University Press, Lewisburg, Pennsylvania, 103 pp.

Articles

Some determinants of Molly Bloom. In *Approaches to Ulysses*, ed. by Benstock and Staley, Pittsburgh University Press, Pittsburgh, pp. 51-75.

SHELDON, RICHARD R.

Books Edited

A sentimental journey, by Viktor Shklovsky. Cornell University Press, Ithaca, New York, and London, 304 pp.

Articles

Shklovsky's *Zoo* and Russian Berlin. *The Russian Review*, 29, 3:262-74.

Letters from Shklovsky's *Zoo*. *Ibid.*, 4:444-56.

Reviews

Selected passages from correspondence with friends, by N. Gogol, trans. by Jesse Zeldin. *Ibid.*, 1:109-10.

ADVERTISING

BARBAN, ARNOLD M., Professor

Articles

With C. H. Sandage

What farmers think about consumer protection. *Journalism Quarterly*, 47, 1:147-51.

With H. H. Kassarjian, W. M. Kassarjian, C. H. Sandage

A study of Riesman's inner-other directedness among farmers. *Rural Sociology*, 35, 2: 232-43.

Reviews

Problems in marketing, by Milton Brown and others. *Journalism Quarterly*, 47, 1:170.

Promotion: an introductory analysis, by Jerome B. Kernan, William P. Dommermuth, and Montrose S. Sommers. *Ibid.*, 2:378-79.

DUNN, S. WATSON, Professor

Articles

Advertising for multinational markets. In

Handbook of modern marketing, ed. by Victor P. Buell, McGraw-Hill Book Co., New York, p. 15.

International advertising research in the 70's. *The International Advertiser*, 11, 1:11-14.

UNWIN, STEPHEN J. F., Assistant Professor

Reviews

Advertising fundamentals, by Philip Ward Burton and J. Robert Miller. *Journalism Quarterly*, 47, 4:768-69.

WEDDING, C. NUGENT, Professor

Articles

The advertising program. In *The handbook of modern marketing*, ed. by Victor P. Buell, McGraw-Hill Book Co., New York, vol. 13, p. 11.

YANG, CHARLES Y., Visiting Professor

Articles

Applying the systems approach to advertising. *Journal of Systems Management*, 21, 8:33-35.

AERONAUTICAL AND ASTRONAUTICAL ENGINEERING

BENNETT, JAMES A., Assistant Professor

Articles

With J. G. Eisle

A multiple degree-of-freedom approach to nonlinear beam vibrations. *American Institute of Aeronautics and Astronautics Journal*, 8, 4:734-39.

BOND, CHARLES E., Associate Professor

Articles

With D. N. Wickersheim

Convective electric arcs at mach numbers up to 6.5. *American Institute of Aeronautics and Astronautics Journal*, 8, 10:1748-51.

KARR, GERALD R., Assistant Professor

See Coordinated Science Laboratory.

LIN, Y. K., Professor

Articles

On first-excursion failure of randomly excited structures. *American Institute of Aeronautics and Astronautics Journal*, 8, 4:720-25.

On first-excursion failure of randomly excited structures, II. *Ibid.*, 10:1888-90.

MAJERUS, JOHN N., Instructor

Articles

Influence of torsional stiffness upon temperature response of a polymeric chain. *Journal of Polymer Science*, 8, A-1:1737-76.

With A. R. Pitochelli

Influence of microstructure on the tensile behavior of acrylic copolymers. *Ibid.*, pp. 1439-65.

ORMSBEE, ALLEN I., Professor

Articles

With R. H. Liebeck

Optimization of airfoils for maximum lift. *Journal of Aircraft*, 7, 5:408-15.

PRUSSING, JOHN E., Assistant Professor

Articles

Optimal two- and three-impulse fixed-time rendezvous in the vicinity of a circular orbit. *American Institute of Aeronautics and Astronautics Journal*, 8, 7:1221-28.

Proceedings of 5th guidance test symposium, Holloman Air Force Base, New Mexico, October 14-16, 1970, pp. 1-43.

Proceedings of symposium on nonlinear estimation theory and its applications, San Diego, September 21-23, 1970, Western Periodicals Company, North Hollywood, California, pp. 281-85.

With H. W. Sorenson, J. E. Sacks

Rocket sled data processing using fading memory filtering with residual feedback. In *Proceedings of the fifth biennial guidance test symposium*, Holloman Air Force Base, October, pp. 1-43.

ROSCOE, STANLEY N., Professor

See Institute of Aviation.

SENTMAN, LEE H., Associate Professor

Articles

With A. Klavins

The interpretation error in molecular beam experiments. *The Review of Scientific Instruments*, 41, 11: 1560-67.

SIVIER, KENNETH R., Associate Professor

Articles

With P. C. Malte

Experimental evaluation of a subsonic Ludwig tube. *American Institute of Aeronautics and Astronautics Journal*, 8, 10: 1881-83.

STREHLOW, ROGER A., Professor

Articles

Multidimensional detonation wave structure. *Astronautica Acta*, 15, 5-6:345-58.

YEN, SHEE-MANG, Professor

Bulletins and Technical Reports

With B. L. Hicks, B. J. Reilly

The internal structure of shock waves. Coordinated Science Laboratory, University of Illinois, Urbana, Report R-474, 87 pp.

ZAK, ADAM R., Professor

Bulletins and Technical Reports

Theoretical and experimental analysis of stiffened panels under dynamic conditions. Air Force Materials Laboratory, Wright-Patterson Air Force Base, Ohio, Technical Report AFML-TR-70-22, 38 pp.

DOCTORAL DISSERTATIONS

Bennett, Albert G., Jr. (H. H. Hilton, Adviser), A preliminary study of ornithopter aerodynamics.

Chen, Hui-Wen (H. H. Hilton, Adviser), Radiative laminar boundary layer flow.

Kirby, John S. (H. H. Hilton, Adviser), Some aspects of stochastic processes due to random viscoelastic material properties.

Klavins, Andrew (S. M. Yen, Adviser), Some aspects of the surface boundary condition in kinetic theory.

Rajan, Suryanarayanan (R. A. Strehlow, Adviser), On the interaction between chemical kinetics and gasdynamics in the flow behind a cylindrical detonation front.

AGRICULTURE ADMINISTRATION

EVERLY, JACK C., Associate Professor

Articles

Photography. In *Communications handbook* (second ed.), Interstate Printers and Publishers, Danville, Illinois, pp. 105-39.

The univex net as an instructional system for extramural courses and in-service training in agriculture. *Journal of the National Association of Colleges and Teachers in Agriculture*, 14, 2:20-22.

Instructional systems for extramural courses. In *Proceedings of the adult education research conference*, by ERIC Clearinghouse on Adult Education, Syracuse, New York, 22 pp.

With A. W. Burger, J. C. Steele

The effect of mediated English counseling via auto-tutorial methods on writing of research reports in a basic field crops instructional system. *Journal of the National Association of Colleges and Teachers in Agriculture*, 14, 2:35-36.

GOLDEN, ELROY E., Associate Professor

Articles

The advisory committee links school and community. *Business Education Forum*, 24, 4:10.

KAISER, GERTRUDE E., Professor

Reviews

Insight and responsibility, by Erik H. Erikson. *Adult Education*, 20, 4:246-47.

MOORES, RICHARD G., Assistant Professor

Books

Fields of rich toil. University of Illinois Press, Urbana, Illinois, 267 pp.

REXROAT, PAUL W., Instructor

Articles

Integrity groups. *The Volunteer Psychotherapists' Journal*, 1, 4:54-59.

SCHERER, CLIFFORD W., Assistant Professor

Articles

Radio use of urban-agricultural public service spot announcements. *Journal of the American Association of Agricultural College Editors*, 53, 2:19-23.

AGRICULTURAL ECONOMICS

BAKER, CHESTER B., Professor

Articles

Marketable management services: research and development. In *Computer-assisted planning systems for individual farms*, University of Illinois, College of Agriculture, Special Publication 18, pp. 3-12.

Agricultural trade credit. *Illinois Agricultural Economics*, 10, 2-11, 1:11-14.

With J. M. Vandeputte

Specifying the allocation of income among taxes, consumption and savings in linear programming models. *American Journal of Agricultural Economics*, 52, 4:521-27.

With J. A. Hopkin, G. K. Brinegar

Research in financial intermediation with respect to agriculture. In *Research and teaching programs in agricultural finance*, University of Illinois, Department of Agricultural Economics, Agricultural Finance Program Report No. 2, pp. 2-9.

With R. M. Leuthold, W. D. Seitz

Effects of the financial environment on the performance of agricultural markets. *Ibid.*, pp. 10-19.

With J. T. Scott, Jr., F. J. Reiss

Research in farm finance. *Ibid.*, pp. 20-28.

- With L. P. Fettig, H. G. Halcrow
Policy-related research in agricultural finance. *Ibid.*, pp. 29-36.
- With R. W. Herdt, E. D. Kellogg
Financial research in foreign economic development. *Ibid.*, pp. 37-45.
- BOCK, CARL A., Assistant Professor
- Books
With F. M. Sims
1970 farm income tax training schools. Workbook. University of Illinois, College of Agriculture, Cooperative Extension Service, 184 pp.
- Articles
Effective use of installment contracts in planning the continuation of the farm business. In *Illinois farm estate planning workbook*, Illinois Institute for Continuing Legal Education, pp. 99-114.
- BROOKS, BRUCE L., Professor
- Articles
With J. M. Holcomb, A. G. Mueller
Extension work in agricultural finance. In *Research and teaching programs in agricultural finance*, University of Illinois, Department of Agricultural Economics, Agricultural Finance Program Report No. 2, pp. 53-56.
- DOVRING, FOLKE, Professor
- Articles
Reforma agraria y productividad: el caso Mexicano. Analisis de datos censales. *Investigacion Economica*, Mexico City, 28, 111-12:167-88.
Land reform and productivity in Mexico. *Land Economics*, 46, 3:264-74.
Economic results of land reform. *War on Hunger*, 4, 9:12-15.
- Bulletins and Technical Reports
Economic results of land reforms. Spring Review of Land Reform A-7, Agency for International Development, Washington, D.C., 28 pp.
Land reform in Mexico. *Ibid.*, C-1, 63 pp.
Land reform in Hungary. *Ibid.*, C-10, 59 pp.
Land reform in Yugoslavia. *Ibid.*, C-11, 63 pp.
Land reform: regional surveys, Europe. *Ibid.*, C-32, 5 pp.
- Reviews
The European peasantry, the final phase, London, 1969, by S. H. Franklin. *Journal of Economic History*, 30, 2:457-59.
- DUE, JEAN M., Professor
- Articles
They said it couldn't be done—two agricultural development projects in Kenya. *Canadian Journal of African Studies*, 3, 3:595-613.
- Reviews
Subsistence agriculture and economic development, ed. by Clifton R. Wharton, Jr. *The Quarterly Review of Economics and Business*, 10, 3:95-96.
- FETTIG, LYLE P.
- Articles
With C. B. Baker, H. G. Halcrow
Policy-related research in agricultural finance. In *Research and teaching programs in agricultural finance*, University of Illinois, Department of Agricultural Economics, Agricultural Finance Program Report No. 2, pp. 29-36.
- HANNAH, HAROLD W., Professor
See Veterinary Medicine Administration.
- HERBST, JOHN H., Associate Professor
- Books
Farm management—principles, budgets, plans (rev. ed.). Stipes Publishing Co., Champaign, Illinois, 206 pp.
- partment of Agricultural Economics, Agricultural Finance Program Report No. 2, pp. 29-36.
- FLIEGEL, FREDERICK C., Professor
See Sociology.
- GRUEBELE, JAMES W., Associate Professor
- Articles
With S. W. Williams
Changing competitive conditions facing the Illinois fluid milk industry. *Illinois Agricultural Economics*, 10, 2-11, 1:1-6.
With S. W. Williams, R. F. Fallert
Impact of food chain procurement policies on the fluid milk processing industry. *American Journal of Agricultural Economics*, 52, 3:395-402.
- GUISE, JOHN W. B., Visiting Assistant Professor
- Articles
With J. C. Flinn
An application of spatial equilibrium analysis to water resource allocation. *Water Resources Research*, 6, 2:398-409.
The allocation and pricing of water in a river basin. *American Journal of Agricultural Economics*, 52, 3:411-21.
With S. A. Parsons
An analysis of the costs of operation of export abattoirs in Australia. *Quarterly Review of Agricultural Economics*, 23:4.
- Bulletins and Technical Reports
The effects of weather and technological change on crop yields: an econometric analysis. Agricultural Economics Research Unit Technical Publication No. 5, Lincoln College, New Zealand, 40 pp.
- GUITHER, HAROLD D., Associate Professor
- Articles
Illinois farmers view current policy issues. *Illinois Agricultural Economics*, 10, 2-11, 1:23-31.
- Bulletins and Technical Reports
Needs and preferences for grain market news among Illinois farm operators. University of Illinois, Department of Agricultural Economics, Agricultural Experiment Station, Agricultural Economics Research Report 103, 15 pp.
- Reviews
The federal farm fable, by Paul Findley. *Agricultural History*, 44, 2:245.
- HALCROW, HAROLD G., Professor
- Articles
With C. B. Baker, L. P. Fettig
Policy-related research in agricultural finance. In *Research and teaching programs in agricultural finance*, University of Illinois, Department of Agricultural Economics, Agricultural Finance Program Report No. 2, pp. 29-36.

HERDT, ROBERT W., Assistant Professor

Articles

A disaggregate approach to aggregate supply. *American Journal of Agricultural Economics*, 52, 4:512-20.

India's "green revolution"—some implications for U.S. farmers. *Illinois Research*, 12, 2:18-19.

With C. B. Baker, E. D. Kellogg

Financial research in foreign economic development. In *Research and teaching programs in agricultural finance*, University of Illinois, Department of Agricultural Economics, Agricultural Finance Program Report No. 2, October, 1970, pp. 37-45.

Reviews

Seeds of change: the green revolution in the 1970's, by Lester R. Brown. *The Quarterly Review of Economics and Business*, 10, 4:85-87.

HILL, LOWELL D., Associate Professor

Articles

Use of weighted regression in estimating models of binary choice. *Canadian Journal of Agricultural Economics*, 18, 3:64-72.

Economic determinants of the farm and elevator trends in the volume of corn artificially dried. *American Journal of Agricultural Economics*, 52, 4:555-68.

Emerging grain marketing patterns. *Journal of the American Society of Farm Managers and Rural Appraisers*, 34, 2:9-13.

Relationship of elevator charges to off-farm drying of corn. *Illinois Agricultural Economics*, 10, 1:8-14.

With M. K. von Oppen

Estimating the quantity of corn moved from farms to elevators in Illinois counties. *Ibid.*, pp. 19-24.

Bulletins and Technical Reports

Adequacy of elevator capacity in Illinois counties. University of Illinois, College of Agriculture, Cooperative Extension Service Circular 1015, 12 pp.

Adjustments in drying and storage capacity at farm and elevator. University of Illinois, Department of Agricultural Economics, Agricultural Experiment Station, Agricultural Economics Research Report 105, 34 pp.

HOLCOMB, JOHN M., Professor

Articles

With B. L. Brooks, A. G. Mueller

Extension work in agricultural finance. In *Research and teaching programs in agricultural finance*, University of Illinois, Department of Agricultural Economics, Agricultural Finance Program Report No. 2, pp. 53-56.

JUDGE, GEORGE G., Professor

See Economics.

KARR, GERALD L., Assistant Professor

Articles

The use of subsidies for the promotion of in-land swamp development. *Economic Trends*, Bank of Sierra Leone, NS 1969, 6:1-7. 1969.

KELLOGG, EARL D., Assistant Professor

Articles

With C. B. Baker, R. W. Herdt

Financial research in foreign economic development. In *Research and teaching programs*

in agricultural finance, University of Illinois, Department of Agricultural Economics, Agricultural Finance Program Report No. 2, pp. 37-45.

KESLER, RICHARD P., Associate Professor

Articles

With A. G. Mueller

Investment opportunities in hog production under three building systems. *Journal of the American Society of Farm Managers and Rural Appraisers*, 34, 2:25-32.

Bulletins and Technical Reports

With D. F. Wilken

1969, 45th annual summary of Illinois farm business records. University of Illinois, College of Agriculture, Cooperative Extension Service Circular 1019, 24 pp.

KIRTLEY, MALCOLM B., Associate Professor

Articles

Futures contracts for commodities in production differ in application from those held in storage. In *Futures trading in livestock*, ed. by Henry H. Bakken, Mimir Publishers, Inc., Madison, Wisconsin, pp. 76-82. Some classroom exercises in the use of futures contracts in marketing cattle. *Ibid.*, pp. 217-23.

KRAUSZ, NORMAN G. P., Professor

Articles

Legal restraints in selling and using pesticides. *Illinois Agricultural Economics*, 10, 1:5-7.

With F. J. Reiss

Institutions and instruments—management alternatives. *American Journal of Agricultural Economics*, 51, 5:1369-80. 1969.

Bulletins and Technical Reports

Water in Illinois—use and pollution laws. University of Illinois, College of Agriculture, Cooperative Extension Service Circular 1024, 4 pp.

Illinois inheritance laws, wills and joint tenancy. *Ibid.*, Circular 776, 8 pp.

Inheritance and gift taxes. *Ibid.*, Circular 728, 12 pp.

Farm tenancy laws in Illinois. *Ibid.*, Circular 818, 16 pp.

LEUTHOLD, RAYMOND M., Assistant

Professor

Articles

Daily pricing relationships in Illinois hog markets. *Illinois Agricultural Economics*, 10, 1:1-4.

With A. J. A. MacCormick, A. Schmitz, D. G. Watts

Forecasting daily hog prices and quantities: a study of alternative forecasting techniques. *Journal of the American Statistical Association*, 65, 329:90-107.

With C. B. Baker, W. D. Seitz

Effects of the financial environment on the performance of agricultural markets. In *Research and teaching programs in agricultural finance*, University of Illinois, Department of Agricultural Economics, Agricultural Finance Program Report No. 2, pp. 10-19.

Bulletins and Technical Reports

Economic analysis and predictions of short-run hog price and quantity fluctuations. Agricultural Experiment Station, Agricultural Economics Research Report 104, 18 pp.

MUELLER, ALLAN G., Professor**Articles**

The competitive position of hogs in midwest agriculture. *Journal of the American Society of Farm Managers and Rural Appraisers*, 34, 2:77-82.

Record systems: their relationship to computerized planning methods. In *Computer-assisted planning systems for individual farms*, University of Illinois, College of Agriculture, Special Publication 18, pp. 56-63.

With B. L. Brooks, J. M. Holcomb

Extension work in agricultural finance. In *Research and teaching programs in agricultural finance*, University of Illinois, Department of Agricultural Economics, Agricultural Finance Program Report No. 2, pp. 53-56.

With R. P. Kesler

Investment opportunities in hog production under three building systems. *Journal of the American Society of Farm Managers and Rural Appraisers*, 34, 2:25-32.

REISS, FRANKLIN J., Professor**Articles**

With N. G. P. Krausz

Institutions and instruments — management alternatives. *American Journal of Agricultural Economics*, 51, 5:1369-80. 1969.

With C. B. Baker, J. T. Scott

Research in farm finance. In *Research and teaching programs in agricultural finance*, University of Illinois, Department of Agricultural Economics, Agricultural Finance Program Report No. 2, pp. 20-28.

Bulletins and Technical Reports

Landlord and tenant shares, 1969. University of Illinois, Department of Agricultural Economics, Agricultural Experiment Station, Agricultural Economics Research Report 107, 40 pp.

SCHMIDT, STEPHEN C., Professor**Articles**

COMICON coarse grain trade and prospects for the 1970s. *The American Review of East-West Trade*, 3, 1:35-42.

The Egyptian agrarian reform: problems and prospects. *Economic Planning*, 6, 2:7-9.

World trade in meats — coarse grain and livestock product balances and projections to 1975. *Ibid.*, 3-4:10-17.

Patterns and prospects in the world's coarse grain economy. *Illinois Business Review*, 27, 8:6-8.

With R. J. Vandendorpe

Preference patterns in the world coarse grain trade. *Canadian Journal of Agricultural Economics*, 8, 1:6-19.

SCOTT, JOHN T., JR., Associate Professor**Articles**

Projections of age distributions of farm operators in the United States based upon estimates of the present value of income: comment. *American Journal of Agricultural Economics*, 52, 2:336.

Leasing in underdeveloped countries: an extension of leasing theory. *Ibid.*, 4:610-12.

The hog cholera eradication program. *Illinois Research*, 12, 3:8-9.

Research and development in planning methods for individual farms. In *Computer-assisted planning systems for individual*

farms, University of Illinois, College of Agriculture, Special Publication 18, pp. 13-24.

With C. B. Baker, F. J. Reiss

Research in farm finance. In *Research and teaching programs in agricultural finance*, University of Illinois, Department of Agricultural Economics, Agricultural Finance Program Report No. 2, pp. 20-28.

SEITZ, WESLEY D., Assistant Professor**Articles**

The measurement of efficiency relative to a frontier production function. *American Journal of Agricultural Economics*, 52, 4:505-11.

With C. B. Baker, R. M. Leuthold

Effects of the financial environment on the performance of agricultural markets. In *Research and teaching programs in agricultural finance*, University of Illinois, Department of Agricultural Economics, Agricultural Finance Program Report No. 2, pp. 10-19.

SIMERL, LAWRENCE H., Professor**Articles**

Farm business trends. *Illinois Research*, 12, 1:20.

Farm business trends. *Ibid.*, 2:20.

Farm business trends. *Ibid.*, 3:20.

SIMS, FAY M., Associate Professor**Books**

With C. A. Bock

1970 farm income tax training schools. Workbook. University of Illinois, College of Agriculture, Cooperative Extension Service, 184 pp.

SOFRANKO, ANDREW J.**Bulletins and Technical Reports**

With M. Nolan

Selected characteristics, participation patterns, and attitudes of hunters and fishermen in Pennsylvania. The Pennsylvania State University, Agricultural Experiment Station Bulletin 770, 39 pp.

Reviews

Motivating economic achievement, by David C. McClelland and David G. Winter. *Rural Sociology*, 35, 2:295-97.

Black Africa: its peoples and their cultures today, ed. by John Middleton. *Ibid.*, 4: 564-66.

SPITZE, ROBERT G. F., Professor**Articles**

Problems of adequacy in rural human resource development — concepts and accomplishments. In *Benefits and burdens of rural development: some public policy viewpoints*, ed. by Earl O. Heady, Iowa State University Press, Ames, pp. 196-218.

Economic redirections in recent U.S. agricultural policy. *Nobiyuku Nogyo*, 337:5-17.

SWANSON, EARL R., Professor**Articles**

Decision-making processes as related to environmental quality. *Illinois Research*, 12, 4:17.

With W. A. Papst

A linear programming analysis of irrigation in Mason County. *Illinois Agricultural Economics*, 10, 1:15-18.

TAKAYAMA, TAKASHI, Professor
See Economics.

THOMPSON, WILLIAM N., Professor

Books

With O. P. Gautam, J. S. Patel, T. S. Sutton
A method of assessing progress of agricultural universities in India. Indian Council of Agricultural Research, New Delhi, 128 pp.
The Punjab Agricultural University, an assessment of progress to 1970. *Ibid.* 153 pp.

Articles

The problems of direct participation in foreign assignments. In *International animal agriculture*, University of Illinois, College of Agriculture, Special Publication 17, pp. 21-34.

Reviews

Prairie farmer and WLS: the Burrige D. Butler years, by James F. Evans. *The Annals of the American Academy of Political and Social Science*, 387:192-93.

Economics of smallholder farming in Rhodesia: a cross-section analysis of two areas, by Benton F. Massell and R. W. M. Johnson. *American Journal of Agricultural Economics*, 52, 1:173-74.

With S. S. Johl

Modernizing Indian agriculture, report on the Intensive Agricultural District Programme (1960-68), vol. 1, by the Expert Committee on Assessment and Evaluation. *Ibid.*, 2:342-44.

Resource use and productivity on farms, a comparative study of intensive and non-intensive agriculture areas, by T. P. S. Chawdhari, R. N. Tripathy, T. V. S. Rao, and J. N. Sharma. *Ibid.*, 2:342-44.

VAN ARSDALL, ROY N., Professor

Articles

The competitive position of beef in Illinois and the corn belt. *Journal of the American Society of Farm Managers and Rural Appraisers*, 34, 2:53-60.

Bulletins and Technical Reports

With R. A. Gustafson

Cattle feeding in the United States. U.S. Department of Agriculture, Economic Research Service, Agricultural Economics Report No. 186, 93 pp.

VAN ES, JOHANNES C., Assistant Professor

Articles

With R. L. Whittenbarger

Farm ownership, political participation, and other social participation in central Brazil. *Rural Sociology*, 35, 1:15-25.

With E. A. Wilkening

Response stability in survey research: a cross-cultural comparison. *Ibid.*, 2:191-205.

Reviews

Peasants in the modern world, ed. by Philip K. Bock. *Ibid.*, 3:421.

WILKEN, DELMAR F., Associate Professor

Articles

Educational implications of computer solutions to planning problems. In *Computer-assisted planning systems for individual farms*, University of Illinois, College of Agriculture, Special Publication 18, pp. 43-55.

Bulletins and Technical Reports

With R. P. Kesler

1969, 45th annual summary of Illinois farm

business records. University of Illinois, College of Agriculture, Cooperative Extension Service Circular 1019, 24 pp.

WILLIAMS, SHELDON W., Professor

Books

With D. A. Vose, C. E. French, H. L. Cook, A. C. Manchester

Organization and competition in the midwest dairy industry. Iowa State University Press, Ames, 339 pp.

Articles

With J. W. Gruebele

Changing competitive conditions facing the Illinois fluid milk industry. *Illinois Agricultural Economics*, 10, 2-11, 1:1-6.

With J. W. Gruebele, R. F. Fallert

Impact of food chain procurement policies on the fluid milk processing industry. *American Journal of Agricultural Economics*, 52, 3:395-402.

DOCTORAL DISSERTATIONS

Baldwin, Eldon D. (L. D. Hill, Adviser), Optimal market structure adjustments to field shelling of corn.

Barry, Peter J. (C. B. Baker, Adviser), Reservation prices on credit use over time: implications for growth of cash grain farmers.

Birla, Suresh C. (J. T. Scott, Adviser), Regional demand analysis of major foodgrains in India.

Bursch, William G. (R. N. Van Arsdall, Adviser), An analysis of selected aspects of differential pricing in Illinois retail feed markets.

Cruz, Ramon J., Jr. (F. Doving, Adviser), Measuring disguised unemployment by means of labor norms.

Frey, Thomas L. (J. A. Hopkin, Adviser), Optimal asset and liability decisions for a rural bank: an application of multi-period linear programming.

Honhon, Georges L. J. (T. A. Hieronymus, Adviser), An econometric analysis of the corn market in an open economy.

Jindia, Jaswant R. (F. Doving, Adviser), Estimation of costs and returns on Indian farms—sampling problems and production function analysis.

Lytle, Paul W. (L. D. Hill, Adviser), An economic analysis of the optimum combination of resources among and within Illinois country elevators.

Misra, Rama S. (V. I. West, Adviser), Production and market potentials of soybeans in India.

Pant, Shridhar P. (T. Takayama, Adviser), An evaluation of econometric and mathematical programming models useful for planning the agricultural sector in India.

Rojas, Gentil (C. B. Baker, Adviser), An integrated approach for planning optimum farm production, marketing and financial choices in the Cauca Valley of Colombia.

Sullivan, James D. (G. G. Judge, Adviser), Interregional flows of slaughter cattle, carcass, primal, and retail beef in the United States.

Wells, James A. (W. N. Thompson, Adviser), Economic analysis of fluid-mixed fertilizer plants in the midwest area of the United States.

Wills, Ian R. (E. R. Swanson, Adviser), The implications of the green revolution for future production income and employment in agriculture in western Uttar Pradesh, India.

AGRICULTURAL ENGINEERING

BEATY, HAROLD H., Professor

Articles*With G. E. Hall*Grain stirring in a small-scale bin. *Illinois Research*, 12, 1:12-13.**Bulletins and Technical Reports**

Illinois Farm Electrification Council, 17th annual report, 20 pp.

BUTLER, B. JACK, Professor

Articles*With A. A. Amberg*High-speed photography as a tool for spray-droplet analysis. *Transactions of the American Society of Agricultural Engineers*, 13, 5:541-46.

CURTIS, JAMES O., Professor

Articles*With B. A. Jones*Present employment of agricultural engineering graduates of the University of Illinois. *Proceedings of the 7th International Congress of Agricultural Engineering (C.I.G.R.)*, Baden Baden, Germany, 7:53-55, 1969.*With E. L. Hansen*Precast concrete footings and foundation walls for farm buildings. *Ibid.*, 2:30-38.A building system using precast concrete sandwich panels from footing to roof. In *Proceedings of the international symposium on low cost housing problems related to urban renewal and development*, University of Missouri, Rolla, pp. 120-27.*With C. S. Walters, A. H. Jensen*Slotted wood floors for swine. *Agricultural Engineering*, 51, 5:310-11.

DAY, DONALD L., Associate Professor

ArticlesIn-the-building oxidation ditches for livestock wastes. *Water and Wastes Engineering*, 7, 9:E 23-24.Reducing the pollutional potential of livestock wastes with in-the-building oxidation ditches. In *Proceedings of the Cornell agricultural waste management conference*, Rochester, New York, pp. 77-84.*With D. D. Jones, J. C. Converse*Aerobic digestion of swine waste. *Proceedings of the 7th International Congress of Agricultural Engineering (C.I.G.R.)*, Baden Baden, Germany, 2:204-11, 1969.**Bulletins and Technical Reports***With D. D. Jones, A. C. Dale*

Aerobic treatment of livestock wastes. Agricultural Experiment Station, University of Illinois, Urbana, 55 pp.

With D. D. Jones, J. C. Converse

Livestock waste management studies—termination report. Agricultural Experiment Station, University of Illinois, Urbana, 97 pp.

DRABLOS, CARROLL J. W., Assistant Professor

Books Edited

Drainage guide for Illinois. Cooperative Extension Service, University of Illinois, Urbana, 60 pp.

Bulletins and Technical Reports*With B. A. Jones, Jr.*

Illinois highway drainage policy and practice

manual. Department of Public Works and Buildings, Division of Highways, State of Illinois, Springfield, Illinois, 118 pp.

HALL, GLENN E., Assistant Professor

Articles*With L. D. Sands*Screw conveyor damage to shelled corn during transport. *Illinois Research*, 12, 2:17-18.*With W. H. Johnson*Corn kernel crackage induced by mechanical shelling. *Transactions of the American Society of Agricultural Engineers*, 13, 1: 51-55.*With R. D. Brazee, C. W. Hall*Cross-sectional area measurement of alfalfa stems. *Ibid.*, 5:577-80.*With H. H. Beaty*Grain stirring in a small-scale bin. *Illinois Research*, 12, 1:12-13.**Bulletins and Technical Reports**

Humidification control and air conditioning of the home. University of Illinois Cooperative Extension Service, Urbana, 17 pp.

HANSEN, EDWIN L., Professor

Articles*With J. O. Curtis*A building system using precast concrete sandwich panels from footing to roof. In *Proceedings of the international symposium on low cost housing problems related to urban renewal and development*, University of Missouri, Rolla, pp. 120-27.Precast concrete footings and foundation walls for farm buildings. *Proceedings of the 7th International Congress of Agricultural Engineering (C.I.G.R.)*, Baden Baden, Germany, 2:30-38, 1969.

HOAG, DEAN L., Assistant Professor

Articles*With J. R. Hutchinson, R. B. Fridley, A. L. Phillips*Tree vibrations. In *Symposium on structural dynamics*, March 1970, Loughborough University of Technology, Loughborough, Leicestershire, England, 2:D11-D12.

HUNT, DONNELL R., Professor

Articles*With W. E. Larsen, R. R. Yoerger*Vehicle-design concept to fully utilize the potential of hydrostatic drives. *Transactions of the American Society of Agricultural Engineers*, 13, 4:482-84, 488.

JONES, BENJAMIN A., JR., Professor

ArticlesAmerican Society of Agricultural Engineers' headquarters. *Agricultural Engineering*, 51, 4:239.*With J. O. Curtis*Present employment of agricultural engineering graduates of the University of Illinois. *Proceedings of the 7th International Congress of Agricultural Engineering (C.I.G.R.)* Baden Baden, Germany, 7:53-55, 1969.**Bulletins and Technical Reports***With C. J. W. Drablos*

Illinois highway drainage policy and practice manual. Department of Public Works and Buildings, Division of Highways, State of Illinois, Springfield, 118 pp.

LEMBKE, WALTER D., Associate Professor

Articles

With D. A. Bucks

A model study of drain enveloped in a coarse-silt base material. *Transactions of the American Society of Agricultural Engineers*, 13, 5:669-71, 675.

MUEHLING, ARTHUR J., Associate Professor

Articles

Gasses and odors from stored swine wastes. *Journal of Animal Science*, 3, 4:526-31.

OLVER, ELWOOD F., Professor

Articles

Considerations and objectives for work in less developed countries. In *Review of international agricultural programs*, College of Agriculture, University of Illinois, Urbana, pp. 29-31.

Bulletins and Technical Reports

Agricultural engineering education in developing countries. University of Illinois, Urbana, 85 pp.

SHOVE, GENE C., Associate Professor

Articles

Harvesting, conditioning, and storage. In *Corn: culture, processing, products*, ed. by G. E. Inglett, The AVI Publishing Co., Inc., Westport, Connecticut, pp. 60-72.

Potential energy use in low-temperature grain conditioning. *Transactions of the American Society of Agricultural Engineers*, 13, 1: 58-60.

High-quality corn results from low-temperature drying with electric heat. *Illinois Research*, 12, 3:19.

WEBER, ARTHUR J., Professor

Articles

With L. W. Sprinkle, T. D. Langston, N. M. Sharov

A similitude study with static and dynamic parameters in an artificial soil. *Transactions of the American Society of Agricultural Engineers*, 13, 5:580-86.

YOERGER, ROGER R., Professor

Articles

With W. E. Larsen, D. R. Hunt

Vehicle-design concept to fully utilize the potential of hydrostatic drives. *Transactions of the American Society of Agricultural Engineers*, 13, 4:482-84, 488.

DOCTORAL DISSERTATIONS

Bloome, Peter D. (B. A. Jones, Jr., and G. C. Shove, Advisers), Simulation of low temperature drying of shelled corn leading to optimization.

Bubbenzer, Gary D. (B. A. Jones, Jr., Adviser), Effect of drop size and impact velocity on the detachment of soils under simulated rainfall.

Converse, James C. (B. A. Jones, Jr., and D. L. Day, Advisers), Odor control and degradation of swine manure with minimum aeration.

Hammond, Walter C. (B. A. Jones, Jr., and J. O. Curtis, Advisers), Collapse loads of wooden columns with various eccentricities and end restraints.

Hummel, John W. (J. A. Weber, Adviser), Axial-flow fan performance and sound power levels.

Mitchell, James K. (B. A. Jones, Jr., Adviser), Micro-relief surface depression storage.

AGRICULTURAL ENTOMOLOGY

ARMBRUST, EDWARD J., Assistant Professor

Articles

With J. R. DeWitt, S. J. Roberts, C. E. White
Preliminary study of the bionomics of the alfalfa weevil on soybeans. *Journal of Economic Entomology*, 62, 5:1233-34.

With J. E. Fahey, M. C. Wilson

Residues of Supracide and Carbofuran in green and dehydrated alfalfa. *Ibid.*, 63, 2:589-91.

With S. J. Roberts, J. R. DeWitt

Predicting spring hatch of the alfalfa weevil for population management. *Ibid.*, 3:921-23.

With S. J. Roberts, C. E. White

Feeding behavior of alfalfa weevil larvae parasitized by *Bathyplectes curculionis*. *Ibid.*, 5:1689-90.

Mating preference of eastern and western strains of the alfalfa weevil. *Ibid.*, 2:674-75.

With M. C. Wilson

Effect of weather on the toxicity and persistence of some insecticides on alfalfa foliage. *Ibid.*, 1:189-92.

Approach to integrated control of the alfalfa weevil. *Ibid.*, 2:554-57.

HOWE, WAYNE L., Professor

Articles

With C. O. Calkins, J. W. Matteson

Early cutting of corn as a method of reducing populations of corn rootworms. *Journal of Economic Entomology*, 63, 3:976-78.

KOGAN, MARCOS, Assistant Professor

Articles

With R. D. Goeden

The systematic status of *Lema trilineata daturaphila* n.n. with notes on the morphology of chemoreceptors of adults. *Annals of the Entomological Society of America*, 63, 2: 529-37.

The biology of *Lema trilineata daturaphila* with notes on the efficiency of food utilization by the larvae. *Ibid.*, pp. 537-46.

The host-plant range of *Lema trilineata daturaphila*. *Ibid.*, 4:1175-80.

With E. F. Legner

A biosystematic revision of the genus *Muscidifurax* with descriptions of four new species. *Canadian Entomologist*, 102, 10: 1268-90.

With J. W. Smith, Jr., R. D. Goeden

Morphology of the stridulatory organ and analysis of the sound produced by *Lema trilineata daturaphila*. *Annals of the Entomological Society of America*, 63, 5:1285-89.

LA BERGE, WALLACE E., Professor

Articles

A new genus with three new species of Eucerine Bees from Mexico (Hymenoptera: Anthophoridae). *Journal of the Kansas Entomological Society*, 43, 3:321-28.

With J. K. Bouseman

A revision of the bees of the genus *Andrena* of the Western Hemisphere. Part III. *Tylandrena*. *Transactions of the American Entomological Society*, 96:543-605.

LUCKMANN, WILLIAM H., Professor

Articles

With D. B. Broersma

Effects of tarnished plant bug feeding on

soybean. *Journal of Economic Entomology*, 63, 1:253-56.

STANNARD, LEWIS J., JR., Professor

Articles

With J. R. DeWitt, T. C. Vance

The marijuana thrips, *Oxythrips cannabensis*, a new record for Illinois and North America. *Transactions of the Illinois State Academy of Science*, 63, 2:152-56.

With T. H. Wilson

Thysanoptera of South Georgia. *Pacific Insects Monograph*, 23:221-26.

Reviews

Indian Thysanoptera, by T. N. Ananthakrishnan. *Annals of the Entomological Society of America*, 63, 3:916.

UNZICKER, JOHN D., Assistant Professor

See Zoology.

AGRONOMY

ALDRICH, SAMUEL R., Professor

Books

With W. O. Scott

Modern soybean production. *Farm Quarterly*, Cincinnati, Ohio, 186 pp.

Articles

Corn culture. In *Corn: culture, processing, products*, ed. by Inglett, Avi Publishing Co., Westport, Connecticut, pp. 24-59.

The influence of cropping patterns, soil management, and fertilizer on nitrates. In *Twelfth sanitary engineering conference proceedings*, University of Illinois, pp. 153-76.

With W. M. Walker, T. R. Peck, W. R. Oswald

Nutrient levels of corn and soybean fields remain high. *Illinois Research*, 12, 3:16-17.

Bulletins and Technical Reports

With D. W. Graffis, E. L. Knake, W. O. Scott, W. R. Oswald

1970 Illinois agronomy handbook. University of Illinois College of Agriculture Cooperative Extension Service, Circular 1012, 59 pp.

ALEXANDER, DENTON E., Professor

Articles

With J. W. Dudley, R. G. Creech

Corn breeding and genetics. In *Corn: culture, processing, products*, ed. by Inglett, Avi Publishing Co., Westport, Connecticut, pp. 6-23.

With D. L. Garwood, E. J. Weber, R. J. Lambert

Effect of different cytoplasm on oil, fatty acids, plant height and ear height in maize (*Zea mays* L.). *Crop Science*, 10:39-41.

With J. W. Dudley, R. J. Lambert

The modification of protein quality of maize by breeding. *Acta Agronomica Academiae Scientiarum Hungaricae*, 19, 3-4:435-43.

ALEXANDER, JOHN D., Assistant Professor

Articles

With J. W. Geis, W. R. Boggess

Early effects of forest vegetation and topographic position on dark-colored, prairie-derived soils. *Soil Science Society of America Proceedings*, 34:105-11.

With J. B. Fehrenbacher, B. W. Ray

Characteristics of dark-colored soils developed

under prairie in a toposequence in northwestern Illinois. In *Proceedings of a symposium on prairie and prairie restoration*, Knox College Biological Field Station Special Publication No. 3, pp. 34-38.

Bulletins and Technical Reports

With D. C. Hallick

General soil map of Champaign County, Illinois, USDA, SCS, in cooperation with University of Illinois Agricultural Experiment Station, 6 pp. and map.

With J. E. Paschke

Soil survey of Lake County, Illinois. *Ibid.*, Soil Report No. 88, 82 pp.

BOONE, LESTER V., Agronomist

Articles

With W. M. Walker, T. R. Peck, P. E. Johnson
How much do soybean yields vary with leaf composition? *Better Crops with Plant Food*, 54, 2:31-2.

With W. G. Bretzlaff

Corn yields as affected by row fertilizers, planting date and nitrogen level. *Illinois Research*, 12, 1:3-4.

BRAIDS, OLIN C., Assistant Professor

Articles

With M. Sobhan-Ardakani, J. A. E. Molina

Liquid digested sewage sludge. *Illinois Research*, 12, 3:6-7.

BROWN, CHARLES M., Professor

Articles

With S. N. Dubey, A. L. Hooker

Inheritance to field reaction to soil-borne wheat mosaic virus. *Crop Science*, 10:93-95.

With E. J. Weber, C. M. Wilson

Lipid and amino acid composition of developing oats (*Avena sativa* L. cultivar 'Brave'). *Ibid.*, pp. 488-91.

With D. P. Hucklesby, R. H. Hageman

Increasing the yields of high-protein wheat. *Illinois Research*, 12, 3:3-4.

BURGER, AMBROSE W., Professor

Articles

With J. C. Everly, J. C. Steele

The effect of mediated English counseling via auto-tutorial methods on the writing of research reports in a basic field crops instructional system. *The Journal of the National Association of Colleges and Teachers of Agriculture*, 2:35-36.

CARMER, SAMUEL G., Associate Professor

Articles

Number of replications for precise estimation of optimum plant density and maximum corn yield. *Agronomy Journal*, 62:357-59.

With H. C. Barrett, A. M. Rhodes

A taxonomic study of interspecific variation. *Vitis*, 8:177-87.

With A. M. Rhodes, C. Campbell, S. E. Malo

A numerical taxonomic study of the mango *Mangifera indica* (L.). *Journal of American Society of Horticultural Science*, 95, 2: 252-56.

With W. P. Bemis, A. M. Rhodes, T. W. Whitaker

Numerical taxonomy applied to cucurbita relationships. *American Journal of Botany*, 57, 4:404-12.

With E. C. A. Runge, L. E. Tyler

Frequency distribution of average slopes for

160-acre fields in Illinois. *Journal of Soil and Water Conservation*, 25, 4:142-44.

With P. W. Mausel, E. C. A. Runge

Use of sample data and seventh approximation criteria in delineating areas of similar soils. *Soil Science Society of America Proceedings*, 34, 4:657-62.

Accuracy in the identification of subgroups delineated by a sample-based soil association map. *Ibid.*, pp. 662-64.

CHAMBLISS, CARROLL G., Area Agronomist

Articles

With D. A. Miller, J. A. Jackobs

Selection of an alfalfa plant part for phosphorus analysis. *Agronomy Journal*, 62: 294-96.

COOPER, RICHARD L., Associate Professor

Articles

Early lodging—a major barrier to high yields. *Soybean Digest*, 30, 3:12-13, 19.

Influence of lodging on soybean yields. In *Proceedings 1970 Illinois fertilizer conference*, pp. 15-16.

DE WET, JOHANNES M. J., Professor

Articles

With S. Saran

The mode of reproduction in *Dichanthium intermedium* (Gramineae). *Bulletin of the Torrey Botanical Club*, 97, 1:6-13.

With J. R. Harlan, K. M. Rawal, M. R. Felder, W. L. Richardson

Cytogenetic studies in *Cynodon L. C. Rich* (Gramineae). *Crop Science*, 10:288-91.

With J. R. Harlan

Apomixis, polyploidy and speciation in *Dichanthium*. *Evolution*, 24:270-77.

Bothriochloa intermedia—a taxonomic dilemma. *Taxon*, 19, 3:339-40.

Biosystematics of *Cynodon L. C. Rich* (Gramineae). *Ibid.*, 4:565-69.

With R. J. Lambert, J. R. Harlan, S. M. Naik

Stable triploid hybrids among *Zea-Tripsacum-Zea* backcross populations. *Caryologia*, 23: 183-87.

Chromosome pairing within genomes in maize-tripsacum hybrids. *Science*, 167:1247-48.

With J. R. Harlan, E. G. Price

Origin of variability in the spontanea complex of *Sorghum bicolor*. *American Journal of Botany*, 57, 6:704-7.

With J. R. Harlan, K. M. Rawal

Origin and evolution of the *Selencidus* race of *Cynodon dactylon*. *Euphytica*, 19, 4:457-61.

Bulletins and Technical Reports

With J. R. Harlan, W. W. Huffine, J. R. Deakin

A guide to the species of *Cynodon* (Gramineae). *Oklahoma State University Agricultural Experiment Station Bulletin B-673*.

DILLON, JOHN E., Associate Agronomist

Bulletins and Technical Reports

With D. W. Graffis, G. L. Ross

1970 performance of commercial soybeans in Illinois (with 1969-1970 averages). University of Illinois College of Agriculture Cooperative Extension Service, Circular 1030, 8 pp.

1970 performance of corn hybrids in Illinois (with 1968-1969 averages). *Ibid.*, Circular 1032, 52 pp.

DUDLEY, JOHN W., Professor

Articles

With D. E. Alexander, R. G. Creech

Corn breeding and genetics. In *Corn: culture, processing, products*, ed. by Inglett, Avi Publishing Co., Westport, Connecticut, pp. 6-23.

With D. E. Alexander, R. J. Lambert

The modification of protein quality of maize by breeding. *Acta Agronomica Academiae Scientiarum Hungaricae*, 19, 3-4:435-43.

EARLY, ERNEST B., Professor

Articles

With F. W. Slife

Effect of etrel on growth and yield of soybeans. *Agronomy Journal*, 62, 3:434-35.

FEHRENBACHER, JOE B., Professor

Articles

With C. J. Frasee, W. C. Krumbein

Loess distribution from a source. *Soil Science Society of America Proceedings*, 34, 2:296-301.

With L. J. Bushue, B. W. Ray

Exhumed paleosols and associated modern till soils in western Illinois. *Ibid.*, pp. 665-69.

With R. L. Hurelbrink

Soils and stratigraphy of a portion of the Gola River Fan of Uttar Pradesh, India. *Ibid.*, 5:911-16.

With J. D. Alexander, B. W. Ray

Characteristics of dark colored soils developed under prairie in a toposequence in northwestern Illinois. In *Proceedings of a symposium on prairie and prairie restoration*, Knox College Biological Field Station Special Publication No. 3, pp. 34-38.

GRAFFIS, DON W., Associate Professor

Articles

Succeed with summer alfalfa seedlings. *Hoard's Dairyman*, 15, 14:779.

With S. R. Aldrich, E. L. Knake, W. O. Scott, W. R. Oshwald

1970 Illinois agronomy handbook. University of Illinois College of Agriculture Cooperative Extension Service, Circular 1012, 59 pp.

With J. E. Dillon, G. L. Ross

1970 performance of commercial soybeans in Illinois (with 1969-1970 averages). *Ibid.*, Circular 1030, 8 pp.

1970 performance of commercial hybrids in Illinois (with 1968-1969 averages). *Ibid.*, Circular 1032, 52 pp.

HAGEMAN, RICHARD H., Professor

Articles

With T. C. Hsiao, E. H. Tyner

Effects of potassium nutrition on protein and total free amino acids in *Zea mays*. *Crop Science*, 10:78-82.

With L. I. Croy

Relationship of nitrate reductase activity to grain protein production in wheat. *Ibid.*, pp. 280-85.

With D. P. Hucklesby, C. M. Brown

Increasing the yields of high-protein wheat. *Illinois Research*, 12:3-4.

HARLAN, JACK R., Professor

Articles

Evolution of cultivated plants. In *Genetic resources in plants: their exploration and con-*

- ervation, ed. by Frankel and Bennett, Blackwell Scientific Publications, Oxford and Edinburgh, pp. 19-32.
- Cynodon species and their value for grazing and hay. *Herbage Abstracts*, 40, 3:233-39.
- World survey of genetic resources of Sorghum. *Plant Introduction Newsletter* (FAO) Rome, 23:19-20.
- With J. M. J. DeWet, K. M. Rawal, M. R. Felder, W. L. Richardson
Cytogenetic studies in *Cynodon* L. C. Rich (Gramineae). *Crop Science*, 10:183-87.
- With J. M. J. DeWet
Apomixis, polyploidy and speciation in *Dichanthium*. *Evolution*, 24:270-77.
- Bothriochloa intermedia*—a taxonomic dilemma. *Taxon*, 19, 3:339-40.
- Biosystematics of *Cynodon* L. C. Rich (Gramineae). *Ibid.*, 4:565-69.
- With J. M. J. DeWet, R. J. Lambert, S. M. Naik
Stable triploid hybrids among *Zea-Tripsacum-Zea* backcross populations. *Caryologia*, 23: 183-87.
- Chromosome pairing within genomes in Maize-tripsacum hybrids. *Science*, 167:1247-48.
- With J. M. J. DeWet, E. G. Price
Origin of variability in the spontanea complex of *Sorghum bicolor*. *American Journal of Botany*, 57, 6:704-7.
- With J. M. J. DeWet, K. M. Rawal
Origin and distribution of the selucidus race of *Cynodon dactylon* (L.) Pers. var. *dactylon* (Gramineae). *Euphytica*, 19:457-61.
- Bulletins and Technical Reports**
With W. D. Clayton
The genus *Cynodon* L. C. Rich. in tropical Africa. *Kew Bulletin, Royal Botanic Gardens*, London, 24, 1:185-89.
- With J. M. J. DeWet, W. W. Huffine, J. R. Deakin
A guide to the species of *Cynodon* (Gramineae). *Oklahoma State University Agricultural Experiment Station Bulletin*, B-673, 37 pp.
- Reviews**
The domestication and exploitation of plants and animals, ed. by P. J. Ucko, G. W. Dimbleby. *Social Biology*, 17, 2:1.
- HINESLY, THOMAS D.**, Assistant Professor
Articles
The utilization and disposal of municipal sewage waste. *Illinois Research*, 12, 4:6-7.
- HYMOWITZ, THEODORE**, Assistant Professor
Articles
On the domestication of the soybean. *Economic Botany*, 24:408-21.
- With R. W. Clark, D. W. Mies
Distribution of a trypsin inhibitor variant in seed proteins of soybean varieties. *Crop Science*, 10:486-87.
- With F. I. Collins, V. E. Sedgwick, R. W. Clark
The oil and fatty acid content of some accessions of *Glycine wightii* (R. Grah. ex Wight et Arn.) Verdcourt. *Tropical Agriculture*, 47:265-69.
- With W. M. Walker
Leaf analysis as a selection index for soybean seed oil and protein. *Agronomy Journal*, 62:631-32.
- With J. T. Yen, I. Spilisbury, J. D. Brooks, A. H. Jensen
Utilization by rats of protein from a trypsin-inhibitor variant soybean. *Animal Science*, 31:214.
- JACKOBS, JOSEPH A.**, Professor
Articles
With C. Chambliss, D. A. Miller
Selection of an alfalfa plant part for phosphorus analysis. *Agronomy Journal*, 62: 294-96.
- JOHNSON, PERCY E.**, Assistant Professor
Articles
With W. M. Walker, T. R. Peck, L. V. Boone
How much do soybean yields vary with leaf composition? *Better Crops with Plant Food*, 54, 2:31-32.
- JONES, ROBERT L.**, Associate Professor
Articles
With C. C. Weir
Spectrophotometric determination of boron in plant and soil samples. *Tropical Agriculture*, 47, 3:261-64.
- With C. C. Weir, I. Hosein
The influence of citrus rootstocks on the nutrient composition of "Valencia" orange leaves. *Ibid.*, 4:331-34.
- With C. W. Davis, N. Ahmad
Weight loss on ignition and K fixation in clays. *Soil Science Society of America Proceedings*, 34:345-47.
- KNAKE, ELLERY L.**, Professor
Articles
Incorporating preemergence soil-applied herbicides. *Agrichemical Age*, 13, 5:6-10.
- Marijuana—search and destroy. *Ibid.*, 11: 6-9.
- Don't do half a job this season! Strive for full season weed control. *Farm Technology*, 26, 1:20-22.
- Early season weed control better than any other time. *Crops and Soils*, 22, 5:29.
- With E. W. Stroube, G. R. Miller, E. P. Sylvester, M. A. Ross
Selective control of smartweed in soybeans. *Farm Technology*, 26, 2:7-10.
- Bulletins and Technical Reports**
With S. R. Aldrich, D. W. Graffis, W. O. Scott, W. R. Oschwald
1970 Illinois agronomy handbook. University of Illinois College of Agriculture Cooperative Extension Service, Circular 1012, 59 pp.
- With M. D. McGlamery, F. W. Slife
1970 weed control guide. *Ibid.*, 12 pp.
- KOEPPE, DAVID E.**, Assistant Professor
Articles
With R. J. Miller
Lead effects on corn mitochondrial respiration. *Science*, 167:1376-78.
- With L. M. Rohrbaugh, E. L. Rice, S. H. Wender
Tissue age and caffeoylquinic acid concentration in sunflower. *Phytochemistry*, 9:297-301.
- The effect of x-radiation on the concentration of scopolin and caffeoylquinic acids in tobacco. *Radiation Botany*, 10:261-65.
- The effect of age and chilling temperatures on the concentration of scopolin and caffeoylquinic acids in tobacco. *Ibid.*, 23:258-66.
- With S. W. Dumford, R. J. Miller
Corn mitochondrial responses to gramicidin. *Plant Physiology*, 46:38.

- Effects of gramicidin on corn mitochondria. *Ibid.*, pp. 471-74.
- With R. J. Miller, S. W. Dumford, J. B. Hanson
Divalent cation stimulation of substrate oxidation by corn mitochondria. *Ibid.*, 45:649-53.
- KURTZ, LESTER T.**, Professor
Articles
The fate of applied nutrients in soils. *Journal of Agricultural and Food Chemistry*, 18: 773-80.
- With K. N. Paulson
Michaelis constant of soil urease. *Soil Science Society of America Proceedings*, 34:70-71.
- LAMBERT, ROBERT J.**, Associate Professor
Articles
With J. R. Harlan, J. M. J. deWet, S. M. Naik
Chromosome pairing within genomes in maize-triposacum hybrids. *Science*, 167:1247-48.
Stable triploid hybrids among *Zea-Tripsacum-Zea* backcross populations. *Caryologia*, 23: 183-87.
- With D. E. Alexander, J. W. Dudley
The modification of protein quality of maize by breeding. *Acta Agronomica Academiae Scientiarum Hungaricae*, 19, 3-4:435-43.
- With D. L. Garwood, E. J. Weber, D. E. Alexander
Effect of different cytoplasm on oil, fatty acids, plant height, and ear height in maize (*Zea mays* L.). *Crop Science*, 10:39-41.
- With W. A. Feist
Changes in six different opaque-2 genotypes of *Zea mays* L. during successive generations of backcrossing. *Ibid.*, pp. 663-65.
- With D. E. Cochran
Use of R-Alleles in obtaining the modified protein double mutant (Opaque-2, Floury-2) in *Zea mays* L. *Ibid.*, pp. 715-17.
- LENG, EARL R.**, Professor
Articles
U.S. soybeans perform well in India. *Illinois Research*, 11, 4:10-11.
- McGLAMERY, MARSHAL D.**, Associate Professor
Articles
Tank-mixed agricultural chemical combinations. *Crops and Soils*, 22, 7:10-12.
Five years of the Illinois weed control survey. *North Central Weed Control Conference Proceedings*, 23:31.
- Bulletins and Technical Reports
With E. L. Knake, F. W. Slife
1970 weed control guide. University of Illinois College of Agriculture Cooperative Extension Service, 12 pp.
- MILLER, DARRELL A.**, Associate Professor
Articles
With C. G. Chambliss, J. A. Jackobs
Selection of an alfalfa plant part for phosphorus analysis. *Agronomy Journal*, 62:294-96.
- MILLER, RAYMOND J.**, Professor
Articles
With A. R. Overman, G. H. Lorimer
Diffusion and osmotic transfer in corn mitochondria. *Plant Physiology*, 45:126-32.
With S. W. Dumford, D. E. Koeppe, J. B. Hanson
Divalent cation stimulation of substrate oxidation by corn mitochondria. *Ibid.*, pp. 649-53.
- With S. W. Dumford, D. E. Koeppe
Effects of gramicidin on corn mitochondria. *Ibid.*, 46:471-74.
- With D. E. Koeppe
Lead effects on corn mitochondrial respiration. *Science*, 167:1376-78.
- With J. R. Freney
Investigation of the clay mineral protection theory for non-hydrolysable nitrogen in soil. *Journal of the Science of Food and Agriculture*, 21:57-61.
- With A. R. Overman, J. M. King
Non-linear water flow through sintered glass membranes. *Soil Science*, 110, 2:140-45.
- With W. R. Boggess
Improving environmental quality—a major goal of agricultural research. *Illinois Research*, 12:3.
- MILLINGTON, RICHARD J.**, Professor
Articles
With D. C. Reicosky, D. B. Peters
A salt sensor for use in saturated and unsaturated soils. *Soil Science Society of America Proceedings*, 34, 2:214-17.
A comparison of three methods for estimating root length. *Agronomy Journal*, 62, 4:451-53.
- With F. D. Whisler, A. Klute
Analysis of radial, steady-state solution and solute flow. *Ibid.*, 3:382-87.
- With D. B. Peters
Transport in the soil-plant-atmosphere continuum with particular reference to water. *Scientia*, 105, 693-94:26-52.
- With E. R. Perrier, D. B. Peters, R. J. Luxmoore
Wind structure above and within a soybean canopy. *Ibid.*, 5:615-18.
- With R. J. Luxmoore, D. B. Peters
SYMAP and net radiation in a soybean canopy. *Ibid.*, 6:830-31.
- ODELL, RUSSELL T.**, Professor
Articles
With T. E. Fenton, F. D. Hole, F. C. Westin
Soil yield potential. *Crops and Soils*, 22, 5:7-10.
- Bulletins and Technical Reports
With W. R. Oschwald
Productivity of Illinois soils. University of Illinois College of Agriculture Cooperative Extension Service, Circular 1016, 18 pp.
- OSCHWALD, WILLIAM R.**, Associate Professor
Articles
Erosion and sedimentation as causes of pollution. *Illinois Research*, 12, 4:12-13.
With W. M. Walker, T. R. Peck, S. R. Aldrich
Nutrient levels of corn and soybean fields remain high. *Ibid.*, 3:16-17.
With W. W. Moschler, D. L. Myhre, D. M. Van Doren, Jr.
No-tillage round table. *Crops and Soils*, 22, 3:14-19.
- Bulletins and Technical Reports
Soil associations of Perry County, Illinois. University of Illinois College of Agriculture Cooperative Extension Service, Circular 1018, 27 pp.
With S. R. Aldrich, D. W. Graffis, E. L. Knake, W. O. Scott
1970 Illinois agronomy handbook. *Ibid.*, Circular 1012, 59 pp.

- With R. T. Odell
Productivity of Illinois soils. *Ibid.*, Circular 1016, 18 pp.
- PECK, THEODORE R., Associate Professor
- Articles
- With W. M. Walker
Early-season chemical analyses of corn and soybean plants are not good indicators of analyses in midseason. *Illinois Research*, 12, 1:18.
Plant and soil survey: soil test summary. *Proceedings of 1970 Illinois fertilizer conference*, pp. 48-50.
1969 survey of nutrient content of corn and soybean plants. *Ibid.*, pp. 51-52.
- With W. M. Walker, S. R. Aldrich, W. R. Oschwald
Nutrient levels of corn and soybean fields remain high. *Ibid.*, 3:16-17.
- With M. R. Swanson, W. M. Walker
Relationship between corn yield and chemical composition of the ear leaf measured with different regression models. *Communications in Soil Science and Plant Analysis*, 1, 3: 123-30.
- With W. M. Walker, P. E. Johnson, L. V. Boone
How much do soybean yields vary with leaf composition? *Better Crops with Plant Food*, 54, 2:31-32.
- PENDLETON, JOHNNY W., Professor
- Articles
- Versatility of the soybean plant. *Soybean Digest*, 30, 12:32-33.
- With M. E. Bauer
Corn yields are not increased by alternation of plant populations. *Illinois Research*, 11, 4: 15.
- With T. J. Johnston, D. B. Peters, D. R. Hicks
Influence of supplemental light on apparent photosynthesis, yield, and yield components of soybeans. *Crop Science*, 9:577-81.
- With J. J. Hammond
Relative photosynthetic potential for grain yield of various leaf canopy levels of corn. *Agronomy Journal*, 61:911-13.
- With D. B. Egli, D. B. Peters
Photosynthetic rate of three soybean communities as related to carbon dioxide levels and solar radiation. *Ibid.*, 62:411-14.
- With S. R. Winter
Results of changing light and temperature regimes in a corn field and temperature effects on the apparent photosyntheses of individual leaves. *Ibid.*, pp. 181-84.
- PETERS, DOYLE B., Professor
- Articles
- With D. C. Reicosky, R. J. Millington
A salt sensor for use in saturated and unsaturated soils. *Soil Science Society of America Proceedings*, 34, 2:214-17.
A comparison of three methods for estimating root length. *Ibid.*, 4:451-53.
- With R. J. Millington
Transport in the soil-plant-atmosphere continuum with particular reference to water. *Scientia*, 105, 693-94:26-52.
- With D. B. Egli, J. W. Pendleton
Photosynthetic rate of three soybean communities as related to carbon dioxide levels and solar radiation. *Agronomy Journal*, 62, 3: 411-14.
- With E. R. Perrier, R. J. Millington, R. J. Luxmoore
Wind structure above and within a soybean canopy. *Ibid.*, 5:615-18.
- With R. J. Luxmoore, R. J. Millington
SYMAP and net radiation in a soybean canopy. *Ibid.*, 6:830-31.
- RAY, BURTON W., Associate Professor
- Articles
- With L. J. Bushue, J. B. Fehrenbacher
Exhumed paleosols and associated modern till soils in western Illinois. *Soil Science Society of America Proceedings*, 34, 4:665-69.
- Bulletins and Technical Reports
- With J. D. Alexander, J. B. Fehrenbacher
Characteristics of dark colored soils developed under prairie in a toposequence in northwestern Illinois. In *Proceedings of a symposium on prairie and prairie restoration*, Knox College Biological Field Station Special Publication No. 3, pp. 34-38.
- With C. C. Miles, W. R. Oschwald
Soil associations of Perry County, Illinois. University of Illinois College of Agriculture Cooperative Extension Service, Circular 1018, 28 pp.
- RINNE, ROBERT W., Associate Professor
- Articles
- With C. A. Adams
Agronomic significance and genetic variability of ATP sulfurylase activity in soybeans (*Glycine max* (L.) Merr.). *Crop Science*, 10:193-96.
- ROSS, GERALD L., Assistant Agronomist
- Bulletins and Technical Reports
- With D. W. Graffis, J. E. Dillon
1970 performance of commercial soybeans in Illinois (with 1969-1970 averages). University of Illinois College of Agriculture Cooperative Extension Service, Circular 1030, 8 pp.
1970 performance of corn hybrids in Illinois (with 1968-1969 averages). *Ibid.*, Circular 1032, 52 pp.
- RUNGE, EDWARD C. A., Associate Professor
- Articles
- Use weather to predict your corn yields. *Crops and Soils*, 22:11-13.
- With T. M. Ballagh
Clay-rich horizons over limestone — illuvial or residual. *Soil Science Society of America Proceedings*, 34, 3:534-36.
- With P. W. Mausel, S. G. Carmer
Use of sample data and seventh approximation criteria in delineating areas of similar soils. *Ibid.*, 4:657-62.
Accuracy in the identification of subgroups delineated by a sample-based soil association map. *Ibid.*, 4:662-64.
- With S. G. Carmer, L. E. Tyler
Frequency distribution of average slopes for 160-acre fields in Illinois. *Journal of Soil and Water Conservation*, 25:142-44.
- SCOTT, WALTER O., Professor
- Books
- With S. R. Aldrich
Modern soybean production. Farm Quarterly, Cincinnati, Ohio, 186 pp.
- Bulletins and Technical Reports
- With S. R. Aldrich, D. W. Graffis, E. L. Knake, W. R. Oschwald
1970 Illinois agronomy handbook. University

of Illinois College of Agriculture Cooperative Extension Service, Circular 1012, 59 pp.

SLIFE, FRED W., Professor

Articles

With L. Thompson, Jr.

Root and foliar absorption of atrazine applied postemergence to broadleaf weeds. *Weed Science*, 18, 3:349-51.

With H. D. Coble

Development and control of honeyvine milkweed. *Ibid.*, pp. 352-56.

With E. Easler, J. W. Long

Some effects of humidity on the translocation of 2, 4, 5-T in bean plants. *Ibid.*, pp. 396-98.

With L. Thompson, Jr., H. S. Butler

Environmental influence on the tolerance of corn to atrazine. *Ibid.*, pp. 509-14.

With V. M. Bhan, E. W. Stoller

Toxicity, absorption, translocation, and metabolism of 2,4-D in yellow nutsedge. *Ibid.*, pp. 733-37.

With E. B. Earley

Effect of ethrel on growth and yield of soybeans. *Agronomy Journal*, 62:434-35.

Bulletins and Technical Reports

With E. L. Knake, M. D. McGlamery

1970 weed control guide. University of Illinois College of Agriculture Cooperative Extension Service, 12 pp.

STEVENSON, FRANK J., Professor

Articles

Chemistry of nitrogen in soils. In *Agricultural practices and water quality*, ed. by Willrich and Smith, Iowa State University Press, Ames, pp. 125-41.

With S. N. Tilo

Nitrogenous constituents of deep-sea sediments. *Advances in Organic Geochemistry, International Monography in Earth Sciences*, 32:229-73.

With C.-N. Cheng

Amino acids in sediments: release by acid hydrolysis and quantitative estimation by a colorimetric procedure. *Geochimica et Cosmochimica Acta*, 34, 1:77-88.

With R. M. Harrison, R. Wetselaar, R. A. Leeper

Nitrosation of soil organic matter, III: Nature of gases produced by reaction of nitrite with lignins, humic substances, and phenolic constituents under neutral and slightly acidic conditions. *Soil Science Society of America Proceedings*, 34, 3:430-35.

With C. E. Clapp, J. A. E. Molina

Occurrence of amino sugars in extracellular polysaccharides of the genus *Rhizobium* and some observations regarding their distribution in somatic components. *Ibid.*, 5:759-62.

STOLLER, EDWARD W., Assistant Professor

Articles

With E. J. Weber

Lipid constituents of some common weed seeds. *Journal of Agricultural and Food Chemistry*, 18:361-64.

TYNER, EDWARD H., Professor

Articles

With B. R. Tripathi, H. L. S. Tandon

Native inorganic phosphorus forms and their relation to some chemical indices of phosphate availability for soils of Agra District, India. *Soil Science*, 109:93-101.

With T. C. Hsiao, R. H. Hageman

Effects of potassium nutrition on protein and total free amino acids in *Zea mays*. *Crop Science*, 10:78-82.

With M. P. Cescas, J. K. Syers

Distribution of apatite and other mineral inclusions in a rhyolitic pumice ash and beach sands from New Zealand: an electron-microprobe study. *The Journal of Soil Science*, 21:78-84.

With M. P. Cescas, R. S. Harmer III

Ferromanganiferous soil concretions: a scanning electron microscope study of their microper structures. *Soil Science Society of America Proceedings*, 34, 4:641-44.

WALKER, WILLIAM M., Associate Professor

Articles

With T. R. Peck, S. R. Aldrich,

W. R. Oschwald

Nutrient levels of corn and soybean fields remain high. *Illinois Research*, 12, 3:16-17.

With T. R. Peck, P. E. Johnson, L. V. Boone

How much do soybean yields vary with leaf composition? *Better Crops with Plant Food*, 54, 2:31-32.

With T. Hymowitz

Leaf analysis as a selection index for soybean seed oil and protein. *Agronomy Journal*, 62: 631-32.

With T. R. Peck

Early-season chemical analyses of corn and soybean plants are not good indicators of analyses in midseason. *Illinois Research*, 12, 1:18.

Plant and soil survey: soil test summary. In *Proceedings of the 1970 Illinois fertilizer conference*, pp. 48-50.

1969 survey of nutrient content of corn and soybean plants. *Ibid.*, pp. 51-52.

With M. R. Swanson, T. R. Peck

Relationship between corn yield and chemical composition of the ear leaf measured with different regression models. *Communications in Soil Science and Plant Analysis*, 1, 3: 123-30.

WAX, LOYD M., Assistant Professor

Articles

With W. R. Nave

Where do soybean losses occur? *Soybean News*, 21:1-2,6.

With W. C. Carlson

Factors influencing the phytotoxicity of chloroxuron. *Weed Science*, 18:98-101.

WEBER, EVELYN J., Assistant Professor

Articles

Lipids of maturing grain of corn (*Zea mays* L.), II: Changes in polar lipids. *Journal of the American Oil Chemists' Society*, 47, 9:340-43.

With D. L. Garwood, R. J. Lambert,

D. E. Alexander

Effect of different cytoplasm on oil, fatty acids, plant height, and ear height in maize (*Zea mays* L.). *Crop Science*, 10:39-41.

With C. M. Brown, C. M. Wilson

Lipid and amino acid composition of developing oats (*Avena sativa* L. cultivar 'Brave'). *Ibid.*, pp. 488-91.

With E. W. Stoller

Lipid constituents of some common weed seeds. *Journal of Agricultural and Food Chemistry*, 18, 3:361-64.

WELCH, LOUIS F., Professor

Articles

Plant nutrients as water pollutants. *Illinois Research*, 12, 4:10-11.

With G. W. Colliver

Toxicity of preplant anhydrous ammonia to germination and early growth of corn, I: Field studies. *Agronomy Journal*, 62:341-46.

Toxicity of preplant anhydrous ammonia to germination and early growth of corn, II: Laboratory. *Ibid.*, pp. 346-48.

With T. D. Hughes

Potassium azide as a nitrification inhibitor. *Ibid.*, pp. 595-99.

2-chloro-6-(trichloromethyl) pyridine as a nitrification inhibitor for anhydrous ammonia applied in different seasons. *Ibid.*, pp. 821-25.

With G. W. Colliver

Corn damaged when planted too close to ammonia zone. *Crops and Soils*, 22, 7:21-22.

WILSON, CURTIS M., Associate Professor

Articles

With L. Sodek, S. T. C. Wright

Effect of EDTA on two RNases from wheat leaves. *Plant and Cell Physiology*, 11:167-71.

With L. Sodek

Incorporation of Leucine-¹⁴C and Lysine-¹⁴C into protein in the developing endosperm of normal and Opaque-2 corn. *Archives of Biochemistry and Biophysics*, 140:29-38.

With C. M. Brown, E. J. Weber

Lipid and amino acid composition of developing oats (*Avena sativa* L. cultivar 'Brave'). *Crop Science*, 10:488-91.

DOCTORAL DISSERTATIONS

Agrawal, Rameshwar P. (J. A. Jackobs, Adviser), The effect of planting patterns and population densities on growth and yield of maize and wheat.

Bauer, Marvin E. (J. W. Pendleton, Adviser), Influence of canopy shape and terminal bud removal on seed yield, components of yield, and morphological characteristics of soybeans (*Glycine max* (L.) Merrill).

Buerlein, James E. (J. W. Pendleton, Adviser), The effects of lodging on soybean yields, canopy structure, light use efficiency and other physiological factors.

Coble, Harold D. (F. W. Slife, Adviser), Ecological and physiological factors involved in the control of honeyvine milkweed.

Deckard, Edward L. (R. H. Hageman, Adviser), Nitrate reductase activity and its relationship to yields of grain and grain protein in normal and opaque-2 corn (*Zea mays* L.) hybrids.

Dubey, Bhagwati P. (D. A. Miller and J. A. Jackobs, Advisers), Influence of cutting frequency and starter fertilizer on the yield and protein production of alfalfa *Medicago sativa* L.

Elmore, Carroll D. (D. E. Alexander, Adviser), Some effects of opaque-2 and floury-2 on kernel characteristics and the performance of counterpart maize (*Zea mays* L.) hybrids.

Follmer, Leon Robert (E. C. A. Runge and R. T. Odell, Advisers), Soil distribution and stratigraphy in the mollic albaqualf region of Illinois.

Ghorashy, Seyed R. (J. W. Pendleton, Adviser), The effect of leaf pubescence on leaf water potential, apparent photosynthetic rate and

yield of three isogenic lines of soybeans (*Glycine max* (L.) Merrill).

Gupta, Phool C. (J. A. Jackobs and D. A. Miller, Advisers), Influence of variety, environment and threshing methods on seed quality and effects of flooding on growth, yield and composition of soybeans, *Glycine max* (L.) Merrill.

Gupta, Ram K. (R. J. Millington, Adviser), Hydrodynamic dispersion in unsaturated porous media.

Herbek, James H. (J. W. Pendleton, Adviser), Evaluation of single-ear and multiple-ear corn types with respect to plant population, plant competition, and light on agronomic characteristics and utilization of stalk soluble solids.

Hsu, Susan H. (H. H. Hadley, Adviser), Carbohydrates in soybeans (*Glycine max* (L.) Merrill).

Naik, Shubbada M. (J. R. Harlan, Adviser), Cytomorphological studies of hybrids between maize and tetraploid *Tripsacum dactyloides* (L.) L. and their backcross derivatives.

Rai, She Darshan (D. A. Miller and J. A. Jackobs, Advisers), Influence of cutting frequency on dry matter yield and root reserves of alfalfa, *Medicago sativa* L.

Rawal, Kantilal M. (J. R. Harlan, Adviser), Part I: Biosystematic studies of the genus *Cynodon* L. C. rich. Part II: Cytogenetic analyses of wild emmer populations.

Smeck, Neil E. (R. T. Odell and E. C. A. Runge, Advisers), Factors influencing development of mollic albaqualfs: comparisons within and between two soil development sequences in Illinois.

Thompson, Lafayette, Jr. (F. W. Slife, Adviser), The toxicity and selectivity of atrazine to plants as affected by the environment.

ANIMAL SCIENCE

ALBERT, WACO W., Assistant Professor

Bulletins and Technical Reports

Feeding suggestions for horses. University of Illinois, Urbana, 20 pp.

BAKER, DAVID H., Associate Professor

Articles

With D. E. Becker

Swine management. In *Diseases of swine*, ed. by H. W. Dunne, Iowa State University Press, Ames, pp. 1077-95.

With G. L. Allee

Influence of dietary carbohydrate on assessment of the leucine need for maintenance of adult swine. *Journal of Nutrition*, 100, 3:277-80.

Limiting nitrogenous factors in corn protein for adult female swine. *Journal of Animal Science*, 30, 5:748-52.

With M. Sugahara

Nutritional investigation of the metabolism of glycine and its precursors by chicks fed a crystalline amino acid diet. *Poultry Science*, 49, 3:756-61.

With M. Sugahara, B. G. Harmon, A. H. Jensen

Effect of ambient temperature on performance and carcass development in young swine. *Journal of Animal Science*, 31, 1:59-62.

With B. G. Harmon, J. Simon, D. E. Becker, A. H. Jensen

The effect of source and level of dietary phosphorus on structure and composition of turbinates and long bones. *Ibid.*, 30, 5: 742-47.

With A. H. Jensen, J. T. Yen, M. M. Gehring, D. E. Becker, B. G. Harmon

Effects of space restriction and management on pre- and postpubertal response of female swine. *Ibid.*, 31, 4:745-50.

With D. E. Becker, A. H. Jensen, B. G. Harmon

Protein source and level for pregnant gilts: a comparison of corn, opaque-2 corn and corn-soybean meal diets. *Ibid.*, 30, 3:364-68.

Reproductive performance and progeny development in swine as influenced by protein restriction during various portions of gestation. *Ibid.*, 31, 3:526-31.

Nicotinic acid-tryptophan nutrition and immunologic implications in young swine. *Ibid.*, 31, 2:339-43.

With D. C. Mahan, B. G. Harmon, A. H. Jensen, D. E. Becker

Use of an inflatable catheter for the collection of urine from adult female swine. *Canadian Journal of Animal Science*, 50, 2:403-4.

With N. K. Allen, J. Boomgaardt, G. Graber
Failure of excess dietary glycine to aggravate choline-deficiency perosis in the young chick. *Poultry Science*, 49, 6:1753-54.

BECKER, DONALD E., Professor and Head of Department

Articles

With D. H. Baker

Swine management. In *Diseases of swine*, ed. by H. W. Dunne, Iowa State University Press, Ames, pp. 1077-95.

With B. G. Harmon, J. Simon, D. H. Baker, A. H. Jensen

The effect of source and level of dietary phosphorus on structure and composition of turbinate and long bones. *Journal of Animal Science*, 30, 5:742-47.

With A. H. Jensen, J. T. Yen, M. M. Gehring, D. H. Baker, B. G. Harmon

Effects of space restriction and management on pre- and postpubertal response of female swine. *Ibid.*, 31, 4:745-50.

Protein source and level for pregnant gilts: a comparison of corn, opaque-2 corn and corn-soybean meal diets. *Ibid.*, 30, 3:364-68.

Reproductive performance and progeny development in swine as influenced by protein restriction during various portions of gestation. *Ibid.*, 31, 3:526-31.

Nicotinic acid-tryptophan nutrition and immunologic implications in young swine. *Ibid.*, 31, 2:339-43.

With D. H. Baker, D. C. Mahan, B. G. Harmon, A. H. Jensen

Use of an inflatable catheter for the collection of urine from adult female swine. *Canadian Journal of Animal Science*, 50, 2:403-4.

BRAY, DONALD J., Professor

Articles

With G. A. Leveille

The lack of effect of dietary inositol in depressing liver lipids in the hen. *Poultry Science*, 49, 1:327-29.

The isoleucine and valine nutrition of young laying pullets as influenced by excessive dietary leucine. *Ibid.*, 5:1334-41.

CARLISLE, GEORGE R., Professor

Bulletins and Technical Reports

Your hog business—ration suggestions. University of Illinois, Urbana, 16 pp.

CURTIS, STANLEY E., Assistant Professor

Articles

Environmental-thermoregulatory interactions and neonatal piglet survival. *Journal of Animal Science*, 31, 3:576-87.

With J. C. Rogler

Thermoregulatory ontogeny in piglets: sympathetic and adipokinetic responses to cold. *American Journal of Physiology*, 218, 1: 149-52.

With F. J. Grommers, G. I. Christison

Estimating animal-floor contact areas. *Journal of Animal Science*, 30, 4:552-55.

With G. I. Christison, W. D. Robertson

Effects of acute cold exposure and age on respiratory quotients in piglets. *Proceedings of the Society for Experimental Biology and Medicine*, 134, 1:188-91.

With F. J. Grommers, H. W. Antonisse, G. I. Christison

Swine-floor contact area as a function of body weight and posture. *Journal of Animal Science*, 31, 6:1232-34.

DOANE, BENNIE B., Associate Animal Scientist

Articles

With A. D. Leman, P. J. Dziuk

Synchronization of estrus and shortening of the interval between lambings by induction of estrus and of ovulation during anestrous. *Journal of the American Veterinary Medical Association*, 157, 11:1574-76.

DZIUK, PHILIP J., Professor

Articles

Estimation of optimum time for insemination of gilts and ewes by double mating at certain times relative to ovulation. *Journal of Reproduction and Fertility*, 22, 2:277-82.

With G. D. Niswender, C. C. Kaltenbach, H. W. Norton

Local effects of embryos and the uterus on corpora lutea in gilts. *Journal of Animal Science*, 30, 3:225-28.

With J. F. Roche, F. J. Karsch, D. L. Foster, S. Takagi

Effect of pinealectomy on estrus, ovulation and luteinizing hormone in ewes. *Biology of Reproduction*, 2, 2:251-54.

With J. F. Roche, D. L. Foster, F. J. Karsch, B. Cook

Levels of luteinizing hormone in sera and pituitaries of ewes during the estrous cycle and anestrous. *Endocrinology*, 86, 3:568-72.

With R. D. Baker

Aerial transport of fertilized pig ova. *Canadian Journal of Animal Science*, 50:215-16.

With G. D. Niswender, J. Graber, C. C. Kaltenbach

Function of the corpus luteum in the ewe following relocation of the uterus or embryo. *Journal of Animal Science*, 30, 6:935-40.

With C. Polge

Time of cessation of intrauterine migration of pig embryos. *Ibid.*, 31, 2:565-66.

With A. D. Leman, B. E. Doane

Synchronization of estrus and shortening of the interval between lambings by induction of estrus and of ovulation during anestrous. *Journal of the American Veterinary Medical Association*, 157, 11:1574-76.

With J. F. Roche, D. L. Foster, F. J. Karsch

Effect of castration and infusion of melatonin

on levels of luteinizing hormone in sera and pituitaries of ewes. *Endocrinology*, 87, 6:1205-10.

FORBES, RICHARD M., Professor

Articles

With M. Jacob

Effect of vitamin D deficiency and the role of citrate in kidney calcification of magnesium-deficient rats. *Journal of Nutrition*, 100, 2:228-34.

GARRIGUS, UPSON S., Professor

Articles

The need for sulfur in the diet of ruminants. In *Symposium; sulfur in nutrition*, ed. by C. H. Muth and J. E. Oldfield, Avi Publishing Co., Inc., Westport, Connecticut, pp. 126-52.

With S. L. Davis, F. C. Hinds

Metabolic effects of growth hormone and diethylstilbestrol in lambs, I: Acute effects of ovine growth hormone on plasma metabolite levels in fasted lambs. *Journal of Animal Science*, 30, 2:229-35.

Metabolic effects of growth hormone and diethylstilbestrol in lambs, II: Effects of daily ovine growth hormone injections on plasma metabolites and nitrogen and nitrogen retention in fed lambs. *Ibid.*, pp. 236-40.

Metabolic effects of growth hormone and diethylstilbestrol in lambs, III: Metabolic effects of DES. *Ibid.*, pp. 241-44.

With R. J. Vatthauer, F. C. Hinds

Continuous *in vitro* culture system for ruminant research, I: Design. *Ibid.*, 4:618-23.

Continuous *in vitro* culture system for ruminant research, II: Biological characterization. *Ibid.*, pp. 624-33.

With W. M. Knight, F. N. Owens

Ruminants can utilize large amounts of urea. *Illinois Research*, 12, 3:18-19.

With E. E. Hatfield, K. O. Nimrick,

J. Kaminski, L. K. Majewski, and others
Aminokiselinska ishrana prezivara (Amino acid nutrition of the ruminant). In *Proceedings first Yugoslav international conference of animal production*, Novi Sad, Yugoslavia, pp. 165-77.

Bulletins and Technical Reports

With H. W. Norton, A. L. Pope, C. F. Parker, J. M. Lewis

Improvement of lamb meat production through breeding. *North Central Regional Research Publication 198, 1035*, Ohio Agricultural Research and Development Center, Wooster, Ohio, pp. 1-37.

GRABER, JEAN W., Research Assistant
Professor

Articles

With G. D. Niswender, P. J. Dziuk, C. C. Kaltbach

Function of the corpus luteum in the ewe following relocation of the uterus or embryo. *Journal of Animal Science*, 30, 6:935-40.

Bulletins and Technical Reports

With R. R. Graber, E. L. Kirk

Illinois birds: Minidae, Illinois Natural History Survey, Urbana, 38 pp.

HARMON, BUD G., Associate Professor

Articles

With D. H. Baker, D. E. Becker, A. H. Jensen
Protein source and level for pregnant gilts: a comparison of corn, opaque-2 corn and

corn-soybean meal diets. *Journal of Animal Science*, 30, 3:364-68.

Nicotinic acid tryptophan nutrition and immunologic implications in young swine. *Ibid.*, 31, 2:339-43.

With J. Simon, D. H. Baker, A. H. Jensen, D. E. Becker

The effect of source and level of dietary phosphorus on structure and composition of turbinates and long bones. *Ibid.*, 30, 5:742-47.

With M. Sugahara, D. H. Baker, A. H. Jensen

Effect of ambient temperature on performance and carcass development in young swine. *Ibid.*, 31, 1:59-62.

With A. H. Jensen, J. T. Yen, M. M. Gehring, D. H. Baker, D. E. Becker

Effects of space restriction and management of pre- and postpubertal response of female swine. *Ibid.*, 31, 4:745-50.

HATFIELD, EFTON E., Professor

Articles

With K. O. Nimrick, J. Kaminski,

L. K. Majewski, R. J. Condon, and others
Amino acid nutrition of the ruminant. In *Proceedings of first Yugoslav international conference of animal production*, Novi Sad, Yugoslavia, pp. 165-77.

With A. Driedger, R. J. Condon, K. O. Nimrick

A modified technique for abomasal and rumen cannulation. *Journal of Animal Science*, 31, 4:772-75.

With K. O. Nimrick, J. Kaminski, F. N. Owens

Qualitative assessment of supplemental amino acid needs for growing lambs fed urea as the sole nitrogen source. *Journal of Nutrition*, 100, 11:1293-1300.

Quantitative assessment of supplemental amino acid needs for growing lambs fed urea as the sole nitrogen source. *Ibid.*, pp. 1301-6.

HINDS, FRANK C., Associate Professor

Articles

With S. L. Davis, U. S. Garrigus

Metabolic effects of growth hormone and diethylstilbestrol in lambs, I: Acute effects of ovine growth hormone on plasma metabolite levels in fasted lambs. *Journal of Animal Science*, 30, 2:229-35.

Metabolic effects of growth hormone and diethylstilbestrol in lambs, II: Effects of daily ovine growth hormone injections on plasma metabolites and nitrogen-retention in fed lambs. *Ibid.*, pp. 236-40.

Metabolic effects of growth hormone and diethylstilbestrol in lambs, III: Metabolic effects of DES. *Ibid.*, pp. 241-44.

With R. J. Vatthauer, U. S. Garrigus

Continuous *in vitro* culture system for ruminant research, I: Design. *Ibid.*, 4:618-23.

Continuous *in vitro* culture system for ruminant research, II: Biological characterization. *Ibid.*, pp. 624-33.

JENSEN, ALDON H., Professor

Articles

Effect of feed processing on swine performance. In *Feed manufacturing technology*, ed. by H. B. Pfost and C. E. Swinchart, American Feed Manufacturers Association, Chicago, pp. 20-25.

With J. T. Yen, M. M. Gehring, D. H. Baker, D. E. Becker, B. G. Harmon

Effects of space restriction and management

- on pre- and postpubertal response of female swine. *Journal of Animal Science*, 31, 4: 745-50.
- With D. H. Baker, D. E. Becker, B. G. Harmon
Reproductive performance and progeny development in swine as influenced by protein restriction during various portions of gestation. *Ibid.*, 3:526-31.
- Nicotinic acid-tryptophan nutrition and immunologic implications in young swine. *Ibid.*, 2:339-43.
- Protein source and level for pregnant gilts: a comparison of corn, opaque-2 corn and corn-soybean meal diets. *Ibid.*, 30, 3:364-68.
- With M. Sugahara, D. H. Baker, B. G. Harmon
Effect of ambient temperature on performance and carcass development in young swine. *Ibid.*, 31, 1:59-62.
- With Members of North Central Region-42
Committee on Swine Nutrition
Cooperative regional studies with growing swine: effects of unidentified factor ingredients on rate and efficiency of gain of growing swine. *Ibid.*, 31, 5:900-906.
- With B. G. Harmon, J. Simon, D. E. Becker, D. H. Baker
The effect of source and level of dietary phosphorus on structure and composition of turbinates and long bones. *Ibid.*, 30, 5: 742-47.
- JOHNSON, DONALD E., Assistant Professor
Articles
With L. S. Bull, J. T. Reid
Energetics of sheep concerned with the utilization of acetic acid. *Journal of Nutrition*, 100, 2:262-76.
- LEVEILLE, GILBERT A., Professor
Articles
Nibble your way to better health. *Illinois Research*, 12, 2:6-7.
- Adipose tissue metabolism: influence of periodicity of eating and diet composition. *Federation Proceedings*, 29, 3:1294-1301.
- With D. J. Bray
The lack of effect of dietary inositol in depressing liver lipids in the hen. *Poultry Science*, 49, 1:327-29.
- With K. L. Muiruri
Metabolic adaptations in meal-fed rats: effects of increased meal frequency or ad libitum feeding in rats previously adapted to a single daily meal. *Journal of Nutrition*, 100, 4:450-60.
- In vitro* fatty acid synthesis and enzyme activity in liver and adipose tissue of the mouse (*Mus musculus*). *The International Journal of Biochemistry*, 1, 2:254-56.
- With J. H. Wiley
Influence of periodicity of eating on the activity of adipose tissue and muscle glycogen synthesizing enzymes in the rat. *Journal of Nutrition*, 100, 1:85-93.
- Significance of insulin in the metabolic adaptation of rats to meal ingestion. *Ibid.*, 9: 1073-80.
- With Y.-Y. Yeh
Hepatic fatty acid synthesis and plasma free fatty acid levels in chicks subjected to short periods of food restriction and refeeding. *Ibid.*, 12:1389-98.
- With T. K. Akinbami, C. O. Ikediobi
Fructose absorption and metabolism by the growing chick. *Proceedings of the Society for Experimental Biology and Medicine*, 135, 2:483-86.
- With E. K. O'Hea, M. Sugahara
Lipogenesis and enzyme activity in pig adipose tissue as influenced by dietary protein and fat. *The International Journal of Biochemistry*, 1, 2:173-78.
- With Y.-Y. Yeh, J. H. Wiley
Influence of dietary lipid on lipogenesis and on the activity of malic enzyme and citrate cleavage enzyme in liver of the growing chick. *Journal of Nutrition*, 100, 8:917-24.
- With E. K. O'Hea
Studies on the response of pig adipose tissue to insulin. *International Journal of Biochemistry*, 1, 5:605-11.
- LOHMAN, TIMOTHY G., Assistant Professor
Articles
With R. C. Dieter, H. W. Norton
Biological and technical sources of variability in bovine carcass lean tissue composition. I: Technical variation in measurement of potassium, nitrogen and water. *Journal of Animal Science*, 30, 1:15-20.
- With R. H. Ball, H. W. Norton
Biological and technical sources of variability in bovine carcass lean tissue composition. II: Biological variation in potassium, nitrogen and water. *Ibid.*, 1:21-26.
- With H. F. Murphy, L. Oscai, M. Pollock
Measurement of body potassium by whole-body counting and its application to physical education research. In *Exercise and fitness*, ed. by B. D. Franks, The Athletic Institute, Chicago, pp. 225-33.
- MISTRY, SORAB P., Professor
Articles
With J. C. Arinze
Hepatic acetyl CoA carboxylase, propionyl CoA carboxylase and pyruvate carboxylase activities during embryonic development and growth in chickens. *Proceedings of the Society for Experimental Biology and Medicine*, 135, 2:553-56.
- With A. D. Deodhar
Regulation of glycolysis in biotin-deficient rat liver. *Life Sciences*, 9, 13:581-88.
- With M. M. Madappally
Protection of chicken liver pyruvate carboxylase by sulphate ions against avidin inhibition. *Life Sciences*, 9, 14:833-39.
- With M. S. Patel
Glycogen synthesis in biotin-deficient rat liver. *Proceedings of the Society for Experimental Biology and Medicine*, 134, 1:264-68.
- NALBANDOV, ANDREW V., Professor
Articles
Endocrinology of parturition. In *Parturient hypocalcemia*, ed. by John J. B. Anderson, Academic Press, New York, pp. 25-31.
- Endocrine background of light action. In *Colloques internationaux du centre national de la recherche scientifique*, ed. by Jacques Benoit, Ivan Assenmacher, Centre National de la Recherche Scientifique, Paris, pp. 29-52.
- Comparative aspects of corpus luteum function. *Biology of Reproduction*, 2, 1:1-13.
- With M. H. M. Salem
A study of ACTH and CRF in chickens. *General and Comparative Endocrinology*, 14, 2:270-80.
- With M. H. M. Salem, H. W. Norton
The role of vasotocin and of CRF in ACTH-release in the chicken. *General and Comparative Endocrinology*, 14, 2:281-89.

With M. A. El-Fowly, B. Cook, M. Nekola
Role of the ovum in follicular luteinization. *Endocrinology*, 87, 2:288-93.

With F. J. Karsch, J. W. Noveroske,
J. F. Roche, H. W. Norton
Maintenance of ovine corpora lutea in the absence of ovarian follicles. *Ibid.*, 6:1228-36.

NORTON, HORACE W., Professor

Articles

Analysis of data in a study of nest parasitism, productivity, and clutch size in purple martins. *Science*, 170:1112.

With T. G. Lohman, R. C. Dieter

Biological and technical source of variability in bovine lean tissue composition, I: Technical variation in measurement of potassium, and water. *Journal of Animal Science*, 30, 1:15-20.

With T. G. Lohman, R. H. Ball

Biological and technical sources of variability in bovine carcass lean tissue composition, II: Biological variation in potassium, nitrogen and water. *Ibid.*, 1:21-26.

With G. D. Niswender, P. J. Dziuk,
C. C. Kaltenbach

Local effects of embryos and the uterus on corpora lutea in gilts. *Ibid.*, 2:225-28.

With M. H. M. Salem, A. V. Nalbandov

A study of ACTH and CRF in chickens. *General and Comparative Endocrinology*, 14, 2:270-80.

The role of vasotocin and of CRF in ACTH release in the chicken. *Ibid.*, p. 281.

With F. J. Karsch, J. W. Noveroske,
J. F. Roche, A. V. Nalbandov

Maintenance of ovine corpora lutea in the absence of ovarium follicles. *Endocrinology*, 87, 6:1228-36.

With B. Bereskin, C. E. Shelby, K. E. Rowe,
W. E. Rempel, A. E. Detmers

Monte Carlo studies of selection and inbreeding in swine, III: Gene frequency. *Journal of Animal Science*, 31, 5:828-36.

OWENS, FREDRIC N., Assistant Professor

Articles

With J. C. Meiske, R. D. Goodrich

Corn silage fermentation, I: Effects of crude protein sources and sodium bisulfite on energy constituents. *Journal of Animal Science*, 30, 3:455-61.

Corn silage fermentation, II: Effects of crude protein sources and sodium bisulfite on nitrogenous constituents. *Ibid.*, pp. 462-66.

Effects of calcium sources and urea on corn silage fermentation. *Journal of Dairy Science*, 52, 11:1817-22.

With K. O. Nimrick, E. E. Hatfield,
J. Kaminski

Qualitative assessment of supplemental amino acid needs for growing lambs fed urea as the sole nitrogen source. *Journal of Nutrition*, 100, 11:1293-1300.

Quantitative assessment of supplemental amino acid needs for growing lambs fed urea as the sole nitrogen source. *Ibid.*, pp. 1301-6.

RASMUSEN, BENJAMIN A., Professor

Articles

With G. J. Brewer, C. E. Coan, J. W. Eaton,
D. C. Shreffler, and others

Blood groups and sodium potassium stimulated ATPase. In *Blood and tissue antigens*, ed.

by Aminoff, Academic Press, New York, pp. 51-64.

With P. K. Lauf, P. G. Hoffman,
P. B. Dunham, P. H. Cook, and others

Stimulation of active potassium transport in LK sheep red cells by blood group-L antiserum. *Journal of Membrane Biology*, 3, 1:1-13.

RICKETTS, GARY E., Associate Professor

Bulletins and Technical Reports

Profitable ewe flock management. University of Illinois, College of Agriculture, Urbana, 48 pp.

ROBSON, RICHARD M., Assistant Professor

Articles

With N. Arakawa, D. E. Goll

An improved method for the preparation of α -actinin from rabbit striated muscle. *Biochimica et Biophysica Acta*, 200, 2:284-95.

With D. E. Goll, N. Arakawa, M. H. Stromer

Purification and properties of α -actinin from rabbit skeletal muscle. *Ibid.*, pp. 296-318.

With D. E. Goll, N. Arakawa, M. H. Stromer,
W. A. Busch

Chemistry of muscle proteins as a food. In *Physiology and biochemistry of muscle as a food*, 2, ed. by E. J. Briskey, University of Wisconsin Press, Madison, pp. 755-800.

RUSSELL, HARRY G., Professor

Bulletins and Technical Reports

With G. R. Carlisle

Your hog business—ration suggestions. Circular 1023, Cooperative Extension Service, College of Agriculture, University of Illinois, Urbana, 16 pp.

With B. A. Weichenthal

Beef cattle feeding suggestions. Circular 1025, Cooperative Extension Service, College of Agriculture, University of Illinois, Urbana, 20 pp.

Beef cattle management suggestions. Circular 1026, Cooperative Extension Service, College of Agriculture, University of Illinois, Urbana, 19 pp.

WEICHENTHAL, B. A., Assistant Professor

Bulletins and Technical Reports

With H. G. Russell

Beef cattle feeding suggestions. Circular 1025, Cooperative Extension Service, College of Agriculture, University of Illinois, Urbana, 20 pp.

Beef cattle management suggestions. Circular 1026, Cooperative Extension Service, College of Agriculture, University of Illinois, Urbana, 19 pp.

WILEY, JOYCE H., Research Associate

Articles

With G. A. Leveille

Influence of periodicity of eating on the activity of adipose tissue and muscle glyco-gen synthesizing enzymes in the rat. *Journal of Nutrition*, 100, 1:85-93.

Significance of insulin in the metabolic adaptation of rats to meal ingestion. *Ibid.*, 9: 1073-80.

With Y.-Y. Yeh, G. A. Leveille

Influence of dietary lipid on lipogenesis and on the activity of malic enzyme and citrate cleavage enzyme in liver of the growing chick. *Ibid.*, 8:917-24.

DOCTORAL DISSERTATIONS

- Driedger, Arno (E. E. Hatfield, Adviser), Biological investigations of selected plant polyphenols in ruminants.
- Karsch, Fred J. (A. V. Nalbandov, Adviser), Role of the pituitary gland and ovarian follicles on maintenance of the corpus luteum of the ewe.
- Netke, Shirang P. (H. M. Scott, Adviser), Weight gains and plasma amino acid titers as criteria for estimating the availability of amino acids in soybean oil meal.
- Noveroske, James W. (A. V. Nalbandov, Adviser), Interrelationship between ovarian follicles and corpora lutea on maintenance of pregnancy in miniature pigs.

ANTHROPOLOGY

BRUKMAN, JAN C., Instructor

Reviews

- Koya: an outline grammar, by Stephen A. Tyler. *American Anthropologist*, 72, 5: 1165-66.

BUTTERWORTH, DOUGLAS S., Assistant Professor

Articles

- From royalty to poverty: the decline of a rural Mexican community. *Human Organization*, 29, 1:5-11.
- Wealth differences in a Mexican community. *Journal of the Steward Anthropological Society*, 1, 1:41-62.

Reviews

- Las comunidades Alteñas en la América Latina, by William Mangin. *American Anthropologist*, 7, 4:769-70.

CUNNINGHAM, CLARK E., Associate Professor

Books Edited

- With T. C. Doege, H. Na Bangxang*
Studies of health problems and health behavior in Saraphi district, North Thailand. Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, 177 pp.

Articles

- The treatment of Saraphi people at Chiang Mai health facilities, 1967. In *Studies of health problems and health behavior in Saraphi District, North Thailand*, ed. by T. C. Doege, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, pp. 22-47.
- Diagnoses of Saraphi patients admitted to Chiang Mai hospital from 1961-1968. *Ibid.*, pp. 48-56.
- Experiences of illnesses in two Saraphi villages during July, 1969. In *Studies of health problems and health behavior in Saraphi District, North Thailand*, ed. by B. Yoddumnurn and W. Ratanasupa, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, pp. 59-77.
- Origins, illnesses, and payments of patients at the Saraphi first-class health station during July, 1969. In *Studies of health problems and health behavior in Saraphi District, North Thailand*, ed. by P. Deswadi, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, pp. 78-95.
- Saraphi patients at Chiang Mai private clinics: a one-month survey, 1968. *Ibid.*, pp. 96-105.
- Geographical origins of inpatients at two large upcountry hospitals of Thailand: Phit-

sanulok and Chiang Mai. In *Studies of health problems and health behavior in Saraphi District, North Thailand*, ed. by T. Buraparata, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, pp. 106-38.

A survey of traditional practitioners in Saraphi. *Ibid.*, pp. 152-56.

Aspects of maternity and birth control in two villages of Saraphi. In *Studies of health problems and health behavior in Saraphi District, North Thailand*, ed. by B. Yoddumnurn and W. Ratanasupa, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand, pp. 157-74.

Thai 'injection doctors': antibiotic mediators. *Social Science and Medicine*, 4, 1:1-24.

Reviews

Agricultural change and peasant choice in a Thai village, by Michael Moerman. *American Anthropologist*, 72, 3:673-74.

GIBBON, GUY E., Assistant Professor

Articles

A brief history of Oneota research in Wisconsin. *Wisconsin Magazine of History*, 53, 4:278-93.

The midway village: an orr phase Oneota site in the upper Mississippi River Valley. *The Wisconsin Archeologist*, 51, 3:79-162.

GILES, EUGENE, Associate Professor

Articles

Discriminant function sexing of the human skeleton. In *Personal identification in mass disasters*, ed. by T. D. Stewart, Smithsonian Institution, Washington, D.C., pp. 99-109.

Culture and genetics. *Bulletins of the American Anthropological Association*, 3, 3, Part 2:87-98.

Sexing crania by discriminant function analysis: effects of age and number of variables. *Proceedings of the 8th International Congress of Anthropological and Ethnological Sciences*, 1:59-61.

With J. M. McCullough

Human cerumen types in Mexico and New Guinea: a humidity-related polymorphism in "Mongoloid" peoples. *Nature*, 226, 5244: 460-62.

With S. Wyber, R. J. Walsh

Microevolution in New Guinea: additional evidence for genetic drift. *Archaeology and Physical Anthropology in Oceania*, 5, 1: 60-72.

GROVE, DAVID C., Associate Professor

Articles

The San Pablo pentheon mound: a middle preclassic site in Morelos, Mexico. *American Antiquity*, 35, 1:62-73.

Bulletins and Technical Reports

The Olmec paintings of Oxtotitlan Cave, Guerrero, Mexico. *Studies in Pre-Columbian Art and Archaeology*, No. 6. Dumbarton Oaks Research Library and Collection, Washington, D.C., 36 pp.

Los Murales de la Cueva de Oxtotitlan, Acatlan, Guerrero. *Serie Investigaciones*, No. 23, Instituto Nacional de Antropología e Historia, Mexico, 96 pp.

LATHRAP, DONALD W., Professor

Books

The Upper Amazon, no. 70 ancient peoples and places. Thames and Hudson, London, 256 pp.

- Reviews**
 Archaeologische untersuchungen am mittlern Amazonas, by Peter Paul Hilbert. *American Antiquity*, 35, 4:499-501.
- LEHMAN, F. K., Professor**
Articles
 On Kachin and Chin marriage regulations. *Man*, 5, 1:118-25.
- Reviews**
 A ceremonial ox of India, by F. Simoons. *Journal of Asian Studies*, 29, 1:198-99.
 Pronominal reference in Thai, Burmese and Vietnamese, by J. Cooke. *Ibid.*, 3:733-34.
- LEWIS, OSCAR, Professor**
Books
 Anthropological essays. Random House, New York, 540 pp.
- Articles**
 A composite of excerpts from La Vida. In *Minority responses*, ed. by Minako Kurokawa, Random House, New York, pp. 219-26.
 Puerto Rican life in New York. In *The American experience: a radical reader*, ed. by Harold Jaffe and John Tytell, Harper and Row, New York, pp. 96-101.
 I'm proud to be poor. In *The Ghetto reader*, ed. by David P. Demarest and Lois S. Lamdin, Random House, New York, pp. 226-29.
 In New York you get swallowed by a horse. In *Channel one: reading for subject and form*, ed. by John C. Bushman and Marvin Laser, Dickenson Publishing Co., California, pp. 3-10.
 Even the Saints cry. In *Awakening minorities*, ed. by John R. Howard, Aldine Publishing Co., Chicago, pp. 135-50.
 The death of Dolores. *Ibid.*, pp. 167-89.
 Gloria and spiritism. *New York Magazine*, 3, 6:32-39.
 Reminiscences of an aging Puerto Rican. *Caribbean Review*, 2, 3:1-3.
- MCGREGOR, JOHN C., Professor**
Reviews
 Studies in Ohio archaeology, ed. by Prufer and McKenzie. *Archaeology*, 23, 3:258-59.
- PLATH, DAVID W., Professor and Head of Department**
Reviews
 Naked festival: a photo-essay, by Tamotsu Yato. *American Anthropologist*, 72, 2:396.
- ROSS, HAROLD M., Assistant Professor**
Articles
 Stone adzes from Malaita Solomon Islands: an ethnographic contribution to Melanesian archaeology. *Journal of the Polynesian Society*, 79, 4:411-20.
- SCHILDKROUT, ENID, Assistant Professor**
Articles
 Government and chiefs in Kumasi Zongo. In *West African chiefs*, ed. by Crowder and Ikime, Africana Publishing Co., New York, pp. 370-93.
 Strangers and local government in Kumasi. *The Journal of Modern African Studies*, 8, 2:351-71.
- Reviews**
 Tradition, changement, histoire: les 'somba' du Dahomey septentrional, by Paul Mercier. *Africa*, 40, 2:182-83.
- SHIMKIN, DEMITRI B., Professor**
Books
 With N. Nelson
 Man's health and the environment: some research needs. U.S. Department of Health, Education and Welfare, Washington, D.C., 258 pp.
- Articles**
 Man, ecology and health. *Archives of Environmental Health*, 20:111-27.
 National traditions and technological determinants in Soviet society. *Naval War College Review*, 22, 8:12-19.
- With R. M. Reid
 Socio-cultural persistence among Shoshoneans of the Carson River Basin (Nevada). In *Languages and cultures of Western North America*, ed. by Earl H. Swanson, Jr., The Idaho State University Press, Pocatello, pp. 172-200.
- With E. M. Shimkin
 Radiocarbon dates of Institute of Archaeology, II. *Radiocarbon*, 12:130-55.
- Bulletins and Technical Reports**
 Space, congestion crowding and isolation: a preliminary analysis of problems and potential research. National Library of Medicine, Bethesda, Maryland, 23 pp.
- Reviews**
 Oral epics of Central Asia, by Nora K. Chadwick and Victor Zhirmunsky. *American Anthropologist*, 72:411.
- WHITTEN, NORMAN E., JR., Associate Professor**
Books Edited
 With J. F. Szwed
 Afro-American anthropology: contemporary perspectives. Free Press, Collier-McMillan, New York, London, 468 pp.
- Articles**
 Personal networks and musical contexts in the Pacific Lowlands of Colombia and Ecuador. In *Afro-American anthropology*, ed. by Whitten and Szwed, Free Press, Collier-McMillan, New York, London, pp. 203-17.
 Strategies of adaptive mobility in the Colombian-Ecuadorian littoral. *Ibid.*, pp. 329-44.
 Network analysis and processes of adaptation among Ecuadorian and Nova Scotian Negroes. In *Marginal natives: anthropologists at work*, ed. by Freilich, Harper and Row, New York, pp. 339-402, 609-12.
 Ecología de las relaciones raciales al noroeste del Ecuador. *América Indígena*, 30, 2: 345-58.
 Network analysis in Ecuador and Nova Scotia: some critical remarks. *Canadian Review of Sociology and Anthropology*, 7, 4:269-80.
- Reviews**
 The Negro in Brazilian society, by Florestan Fernandes. *American Anthropologist*, 72, 6:1511-12.
- ZUIDEMA, REINER T., Associate Professor**
Articles
 Social versus structural change in Quechua society of Southern Peru. In *Anniversary contributions to anthropology*, ed. by E. J. Brill, Ethnological Society W.D.O., Leiden, Holland, pp. 153-58.
 El estudio arqueológico etnohistórico y antropológico social en unas comunidades del Rio Pampas. *Verhandlungen des XXXVIII Internationalen Amerikanistenkongresses*, 2: 503-5.

DOCTORAL DISSERTATIONS

Arnold, Dean E. (D. W. Lathrap, Adviser),
The emics of pottery design from Quinua,
Peru.

Braroe, Niels W. (E. M. Bruner, Adviser),
Change and identity: patterns of interaction
in an Indian-white community.

Fowler, Loretta K. (D. B. Shimkin, Adviser),
Political process and socio-cultural change
among the Arapaho Indians.

Myers, Thomas P. (D. W. Lathrap, Adviser),
The late prehistoric period at Yarinacocha,
Peru.

Pilcher, William W. (J. H. Steward, Adviser),
The Portland longshoremen: the values, atti-
tudes, and origins of an occupational sub-
culture.

Puritt, Paul (E. M. Bruner, Adviser), The
Meru of Tanzania: a study of their social
and political organization.

Thompson, Stephen I. (J. B. Casagrande, Ad-
viser), San Juan Yacapani: a Japanese pi-
oneer colony in eastern Bolivia.

ARCHITECTURE

FRANCESCATO, GUIDO, Associate
Professor

Reviews

The Italian landscape, by Guido Ferrara.
Landscape Architecture, 61, 1:82-83.

HUTCHINGS, BRUCE L., Instructor

Articles

Mobility and environmental quality. *Journal
of Aesthetic Education*, 4, 4:119-24.

Reviews

Landscape into cityscape, by Albert Fein.
Ibid., pp. 147-48.

WINKELHAKE, CLAUDE A., Professor

Articles

Generating ecological models. *Journal of
Aesthetic Education*, 4, 4:97-110.

The professional event. *Ibid.*, 1:133-39.

Design linguistics. *Objective*, 3, 1:22-23.

Scales of perception. *Journal of the National
Art Education Association*, 23, 7:24-29.

Is pattern language? *Design Methods Group
Newsletter*, 4, 10:3-4.

Reviews

The modern metropolis: essays by Hans Blu-
menfeld, ed. by Paul D. Spreieregen. *Journal
of Aesthetic Education*, 4, 4:149-51.

Planning and architecture: essays to Arthur
Korn, ed. by Dennis Sharp. *Ibid.*, pp. 151-
52.

Apollo in the democracy: the cultural obliga-
tion of the architect, by Walter Gropius.
Ibid., 3, 4:176-77.

ART

JOHNSON, WALTER M., Professor

Reviews

New directions in British architecture, by
Royston Landau. *Art Education: Journal
of the National Art Education Association*,
23, 1:42.

New directions in German architecture, by
Gunther Feuerstein. *Ibid.*

New directions in Italian architecture, by
Vittorio Gregotti. *Ibid.*

New directions in Japanese architecture, by
Robin Boyd. *Ibid.*

LANSING, KENNETH M., Professor
See Education.

RAE, EDWIN C., Professor

Articles

Irish sepulchral monuments of the later mid-
dle ages, I: The Ormond Group. *Journal
of the Royal Society of Antiquaries of Ire-
land*, 100, 1:1-38.

The Rice monument in Waterford cathedral.
Proceedings of the Royal Irish Academy,
69, 1:1-14.

The tomb of Bishop Walter Wellesley at
Great Connell Priory, County Kildare.
*Journal of the County Kildare Archaeologi-
cal Society*, 14, 5:544-63.

ZAGORSKI, EDWARD J., Professor

Articles

Design games. *Journal of the Industrial De-
signers Society of America*, 3, 3:55-60.

ASIAN STUDIES, CENTER FOR

CHENG, CHIN-CHUAN, Assistant Professor
See Linguistics.

CRAWFORD, ROBERT B., Associate
Professor

Articles

Chang Chü-cheng's Confucian legalism. In
Self and society in Ming thought, ed. by
Wm. Theodore deBary, Columbia University
Press, New York, pp. 367-413.

Reviews

Chinese government in Ming times: seven
studies, ed. by Charles O. Hucker. *The
Journal of Asian Studies*, 29, 4:917-18.

MAKINO, SEIICHI, Assistant Professor

Articles

Two proposals about Japanese polite expres-
sions. In *Studies presented to Robert B.
Lees by his students*, ed. by Jerrold M.
Sadock and Anthony L. Vanek, Linguistic
Research, Inc., Edmonton, Canada/Cham-
paign, Illinois, pp. 163-87.

ASTRONOMY

DICKEL, JOHN R., Associate Professor of
Astronomy

Articles

With J. J. Degioanni, G. C. Goodman

The microwave spectrum of Jupiter. *Radio
Science*, 5, 2:517-27.

With H. J. Wendker, K. S. Yang, and others

A survey of the sky at 610.5 MHz. III. The
region between declination +22° and +27°.
Astronomical Journal, 75, 2:148-57.

KALER, JAMES B., Associate Professor of
Astronomy

Articles

Chemical abundances and the parameters of
planetary nebulae. *Astrophysical Journal*,
160, 3:887-913.

MAY, THOMAS L., Visiting Lecturer

Articles

With G. C. McVittie

Uniform model universes containing matter
and blackbody radiation. *Monthly Notices
Royal Astronomical Society*, 148, 4:407-16.

McVITTIE, GEORGE C., Professor of Astronomy

Articles

Interplanetary radar time delays in general relativity. *Astronomical Journal*, 75, 4:287-96.

General relativity and time in the solar system. *Studium Generale*, 23:197.

With M. E. Cahill

Spherical symmetry and mass-energy in general relativity, I: General theory. *Journal of Mathematical Physics*, 11, 4:1382-91.

Spherical symmetry and mass-energy in general relativity, II: Particular cases. *Ibid.*, 4:1392-1401.

With T. L. May

Uniform model universes containing matter and blackbody radiation. *Monthly Notices Royal Astronomical Society*, 148, 4:407-16.

With R. R. Ringenberg

The evolution function and the interpretation of radio source-counts. *Ibid.*, 149, 4:341-63.

RUBIN, ROBERT H., Research Associate in Astronomy

Articles

Radio observations of planetary nebulae and possible planetary nebulae. *Astronomy and Astrophysics*, 8, 2:171-80.

With T. J. Bohuski, M. G. Smith

An optical radio velocity for NGC 6857. *Publications of the Astronomical Society of the Pacific*, 82, 488:914-16.

With E. Churchwell, P. Mezger, E. Reifenstein III, B. Turner

Detection of the H65 α radio recombination line in Orion A. *Astrophysical Letters*, 5: 157-60.

With P. G. Mezger

A recombination line of mapping the H II region W3 (IC 1795). *Astronomy and Astrophysics*, 5, 3:407-12.

SWENSON, GEORGE W., JR., Professor of Astronomy

See Electrical Engineering.

YANG, KWANG-SKI, Senior Research Engineer

Articles

With J. R. Dickel, H. J. Wendker, and others

A survey of the sky at 610.5 MHz. III. The region between declination +22° and +27°. *Astronomical Journal*, 75, 2:148-57.

DOCTORAL DISSERTATIONS

May, Thomas L. (G. C. McVittie, Adviser), Uniform model universes containing matter and black-body radiation.

Melvin, Peter J. (G. C. McVittie, Adviser), On deviations from linear wave motion in classical hydrodynamics.

ATMOSPHERIC RESEARCH, LABORATORY FOR

GELLER, MARVIN A., Assistant Professor

Articles

An investigation of the lunar semidiurnal tide in the atmosphere. *Journal of Atmospheric Sciences*, 27, 2:202-18.

OGURA, YOSHIMITSU, Professor and Director of Laboratory

Articles

With A. Yagihashi

A numerical study of finite-amplitude time-

dependent convection induced by time-independent internal heating; truncated groups. *Journal of the Meteorological Society of Japan*, 48, 1:1-17.

With H. Kondo

A linear stability of convective motion in a thermally unstable layer below a stable region. *Ibid.*, 3:204-16.

With H. Tsu

An experimental study of the wave number selection for the finite amplitude Rayleigh convection. *Ibid.*, 5:400-404.

TAKAHASHI, TSUTOMU, Visiting Associate Professor

Articles

Electric surface potential of growing ice crystals. *Journal of the Atmospheric Sciences*, 27, 3:453-62.

VERGEINER, IGNAZ, Visiting Research Associate

Articles

With D. K. Lilly

The dynamic structure of lee wave flow as obtained from balloon and airplane observations. *Monthly Weather Review*, 98, 3:220-32.

AVIATION, INSTITUTE OF

ALVARES, KENNETH M., Assistant Professor

Articles

With G. B. Graen, J. B. Orris, J. A. Martilla

The contingency model of leadership effectiveness: antecedent and evidential results. *Psychological Bulletin*, 74, 4:285-96.

ROSCOE, STANLEY N., Professor

Articles

Navigation displays for the 1970s. In *Geographic orientation in air operations*, ed. by J. J. McGrath, Office of Naval Research, Alexandria, Virginia, pp. 107-12.

WILLIGES, ROBERT C., Assistant Professor

Bulletins and Technical Reports

With W. J. Huffman

Effects of alcohol on decision-making behavior in a visual detection task. Highway Traffic Safety Center, University of Illinois, Urbana, 25 pp.

BIOCHEMISTRY

CONRAD, H. EDWARD, Associate Professor

Articles

With J. E. Shively

Stoichiometry of the nitrous acid deaminative cleavage of model amino sugar glycosides and glycosaminoglycans. *Biochemistry*, 9, 1:33-43.

DUS, KARL M., Assistant Professor

Articles

With M. Bruschi, J. LeGall

C-type cytochromes of *Desulfovibrio vulgaris*. Amino acid composition and end groups of cytochrome C₅₅. *Biochemical and Biophysical Research Communications*, 38:607.

With T. Flatmark, H. de Klerk, M. D. Kamen
Isolation and chemical properties of two

cytochromes *c* of *Rhodospirillum molischianum*. *Biochemistry*, 9:1984-90.

Comparative study of the physicochemical properties of two cytochromes *c* of *Rhodospirillum molischianum*. *Ibid.*, pp. 1991-96.

With M. Katagiri, C.-A. Yu, D. L. Erbes, I. C. Gunsalus

Chemical characterization of cytochrome P-450_{cam}. *Biochemical and Biophysical Research Communications*, 40:1423.

GUNSALUS, I. C., Professor

Articles

The use and universality of microbial genetics. In Proceedings of the 20th international tuberculosis conference. *Excerpta Medica Congress Series*, 205:201.

With K. Tsai, C.-A. Yu, J. Peisach, W. Blumberg, and others

Spin state changes on binding between cytochrome P-450_{cam} and its specific substrate. *Proceedings of the National Academy of Science*, 66:1157-63.

With A. M. Chakrabarty

Transduction and genetic homology between the pseudomonas species: aeruginosa and putida. *Journal of Bacteriology*, 103:830-32.

With K. Dus, M. Katagiri, C.-A. Yu, B. L. Erbes

Chemical characterization of cytochrome P-450_{cam}. *Biochemical and Biophysical Research Communications*, 40:1423-30.

With C.-A. Yu

Crystalline cytochrome P-450_{cam}. *Ibid.*, pp. 1431-36.

With S. F. Queener

Anthranilate synthase enzyme system and complementation in *Pseudomonas* species. *Proceedings of the National Academy of Science*, 67:1225-32.

HAGER, LOWELL P., Professor and Head of Department

Articles

With P. Warme

Heme sulfuric anhydrides, I: Synthesis and reactions of mesoheme sulfuric anhydride. *Biochemistry* 9:1599-1605.

Heme sulfuric anhydrides, II: Properties of heme models prepared from mesoheme sulfuric anhydrides. *Ibid.*, pp. 1606-14.

Affinity labeling of myoglobin with mesoheme sulfuric anhydride. *Ibid.*, pp. 4237-43.

Mesoheme sulfuric anhydride as a heme protein structure probe: reaction with cytochrome b₅₆₂. *Ibid.*, pp. 4244-51.

With J. A. Thomas, D. R. Morris

Chloroperoxidase, VII: Classical peroxidatic, catalatic, and halogenating forms of the enzyme. *Journal of Biological Chemistry*, 245:3129-34.

Chloroperoxidase, VIII: Formation of peroxide and halide complexes and their relation to the mechanism of the halogenation reaction. *Ibid.*, pp. 3135-42.

With M. Pasternak, P. G. Debrunner, G. DePasquali, L. Yeoman

Application of ¹²⁵I Mossbauer effect to biological systems: studies with heme models. *Proceedings of the National Academy of Science*, 66:1142-49.

With Y. Y. Chang

Inhibition of colicin E2 activity by bacterial lipopoly-saccharide. *Journal of Bacteriology*, 104:1106-9.

NYSTROM, ROBERT F., Professor

Articles

With J. P. Kapoor, R. L. Metcalf, G. K. Sangha

Comparative metabolism of methoxychlor, methiochlor and DDT in mouse, insects, and in a model ecosystem. *Agricultural and Food Chemistry*, 18, 6:1145-52.

SCHMIDT, PAUL G., Assistant Professor
See Chemistry.

SCHROEPPER, GEORGE J., JR., Professor

Articles

With C. B. Hirschberg, A. Kiscic

Enzymatic formation of dihydrosphingosine-1-phosphate. *Journal of Biological Chemistry*, 245:3084-90.

With J. A. Martin, S. Huntoon

Enzymatic conversion of 14 α -methyl-cholest-7-en-3 β , 15-diol to cholesterol. *Biochemical and Biophysical Research Communications*, 39:1170-74.

With W. G. Niehaus, Jr., A. Kiscic, A. Torkelson, D. J. Bednarczyk

Stereospecific hydration of the Δ^8 -double bond of oleic acid. *Journal of Biological Chemistry*, 245:3790-97.

Stereospecific hydration of cis- and trans-9, 10-epoxyoctadecanoic acids. *Ibid.*, pp. 3802-9.

With W. G. Niehaus, Jr., J. A. McCloskey

Enzymatic conversion of linoleic acid to 10D-hydroxy- Δ^{12} -cis-octadecenoic acid. *Ibid.*, pp. 3798-3801.

With S. Huntoon

Enzymatic conversion of cholest-8(14)-en-3 β , 15 α -diol and cholest-8(14)-en-3 β , 15 β -diol to cholesterol. *Biochemical and Biophysical Research Communications*, 40:476-80.

With F. Albright

L-trans- α , 3-epoxysuccinate. A new substrate for fumarase. *Ibid.*, pp. 661-66.

With B. N. Lutsky

Enzymatic conversion of $\Delta^8,14$ -cholestadien-3 β -ol to cholesterol. *Ibid.*, 33:492-96.

Studies on the enzymatic conversion of 5 α -cholesta-8, 14-dien-3 β -ol to cholesterol. *Journal of Biological Chemistry*, 245:6449-55.

SWITZER, ROBERT L., Assistant Professor

Articles

Regulation and mechanism of phosphoribosylpyrophosphate synthetase, II: Exchange reactions catalyzed by the enzyme. *Journal of Biological Chemistry*, 245, 3:483-95.

TEIPEL, JOHN W., Assistant Professor

See Chemistry.

WEBER, GREGORIO, Professor

Articles

Fluorescence methods in the study of protein conformation. In *Spectroscopic approaches to biomolecular conformation*, ed. by D. W. Urry, American Medical Association, Chicago, pp. 23-31.

Molecular complexes of biological interest. *Proceedings of the Fourth International Congress on Pharmacology*, 3:180-91.

With R. D. Spencer

Influence of Brownian rotations and energy transfer upon the measurements of fluorescence lifetime. *Journal of Chemical Physics*, 52:1654-63.

With M. Shinitzky

Failure of energy transfer between identical aromatic molecules on excitation at the long wave edge of the absorption spectrum. *Proceedings of the National Academy of Sciences*, 65:823-30.

With T. G. Scott, R. D. Spencer, N. J. Leonard

Emission properties of NADH. Studies of fluorescence lifetimes and quantum efficiencies of NADH, AcPyADH, or simplified synthetic models. *Journal of the American Chemical Society*, 92:687-95.

With C. G. Rosen

Dimer formation from 1-Anilino-8-naphthalene-sulfonate catalyzed by bovine serum albumin. A new fluorescent molecule with exceptional binding properties. *Biochemistry*, 8:3915-20.

With W. M. Vaughan

Oxygen quenching of pyrenebutyric acid fluorescence in water. A dynamic probe of the microenvironment. *Ibid.*, 9:464-73.

With S. R. Anderson, M. Brunori

Fluorescence studies of alypsia and sperm whale apomyoglobins. *Ibid.*, pp. 4723-29.

With A. Jonas

Partial modification of bovine serum albumin with dicarboxylic anhydrides. Physical properties of the modified species. *Ibid.*, pp. 4729-35.

Limited digestion of citraconylated bovine serum albumin with α -Chymotrypsin. *Ibid.*, pp. 5092-99.

WOOD, JOHN M., Associate Professor**Articles****With A. Toms**

The metabolism of *trans* ferulic acid by pseudomonas acidovorans. *Biochemistry*, 9: 337-45.

Early intermediates in the degradation of α conidrin by pseudomonas multivorans. *Ibid.*, pp. 733-40.

With M. W. Penley, D. G. Brown

Chemical and biological studies with fluoro-alkylcobalamins. *Ibid.*, pp. 4302-10.

BIOLOGY**DOCTORAL DISSERTATIONS**

Cho, Paula L. (D. L. Nanney, Adviser), The genetics of *Glaucoma*.

Darding, Roger L. (T. K. Hodges, Adviser), Gramicidin stimulated ion fluxes in plant roots.

Fisher, James D. (T. K. Hodges, Adviser), Ion sensitive ATPases and ion transport in plant roots.

Kirk, Betty I. (J. B. Hanson, Adviser), Active swelling and contraction in corn mitochondria.

Morris, Paul W. (J. Gorski, Adviser), The effects of luteinizing hormone on sterol metabolism in the ovary.

BIOPHYSICS**DOCTORAL DISSERTATIONS**

Fowler, Charles F. (C. Sybesma, Adviser), Light-induced electron transport in photosynthetic bacteria.

Jayaraman, Swaminathan (H. S. Ducoff, Adviser), Radiation damage and repair after

whole-body or partial-body irradiations of *Tenebrio molitor* larvae.

Kokjer, Kenneth J. (H. M. Von Foerster, Adviser), Real-time display techniques for the neurophysiological laboratory.

Mangel, Walter F. (S. Spiegelman, Adviser), *In vitro* experiments on the specificity of viral RNA replication.

BOTANY**ARNTZEN, CHARLES J., Assistant Professor****Articles**

With F. L. Crane, J. D. Hall, F. J. Ruzicka, R. A. Dilley

Binary membranes in mitochondria and chloroplasts. In *Membrane biosynthesis*, Biochimica et Biophysica Acta Library Series, The Netherlands.

BAZZAZ, FAKHRI A., Assistant Professor**Articles**

Succession and species distribution in relation to erosion in southern Illinois. *Transactions of the Illinois State Academy of Science*, 62, 4:430-35.

Secondary seed dormancy in the common ragweed *Ambrosia artemisiifolia*. *Bulletin of Torrey Botanical Club*, 97:302-5.

With D. J. Paolillo, R. H. Jagels

Photosynthesis and respiration of forest and alpine populations of *Polytrichum juniperinum*. *The Bryologist*, 73:579-85.

With A. W. Haney

Some ecological implications of the distribution of hemp (*Cannabis sativa* L.) in the United States of America. In *The botany and chemistry of Cannabis*, ed. by C. R. B. Joyce and S. H. Curry, J. and A. Churchill, London, pp. 39-48.

BLACK, LINDSAY M., Professor**Articles**

Wound tumor virus. In *Descriptions of plant viruses*, ed. by B. D. Harrison and A. J. Gibbs, Commonwealth Mycological Institute and Association of Applied Biologists, Kew, England, 34: 4 pp.

Potato yellow dwarf virus. *Ibid.*, 35: 4 pp.

With R. J. Chiu, H. Y. Liu, R. MacLeod

Potato yellow dwarf virus in leafhopper cell culture. *Virology*, 40:387-96.

With D. Peters

Infection of primary cultures of aphid cells with a plant virus. *Ibid.*, pp. 847-53.

BOYER, JOHN S., Associate Professor**Articles**

Leaf enlargement and metabolic rates in corn, soybean, and sunflower at low leaf water potentials. *Plant Physiology*, 46:223-35.

Differing sensitivity of photosynthesis to low leaf water potentials in corn and soybean. *Ibid.*, pp. 236-39.

With B. L. Bowen

Inhibition of oxygen evolution by chloroplasts isolated from leaves with low water potentials. *Ibid.*, 45:612-15.

With D. G. Despain, L. C. Bliss

Carbon dioxide exchange in *Saguaro* seedlings. *Ecology*, 51, 5:912-14.

DE WET, JOHANNES M. J., Professor

See Agronomy.

DICKINSON, DAVID B., Associate Professor
See Horticulture.

GABAY, SUSAN J., Research Associate

Articles

With J. R. Laughnan

Observations on genetic properties of intra-chromosomal recombination. *Molecular and General Genetics*, 108:93-96.

Genetic analysis of the aberrant behavior of an X-chromosome duplication in the germ line of *Drosophila melanogaster* males. *Genetics*, 65, 2:249-65.

GOVINDJEE, Professor

Articles

With G. Döring, R. Govindjee

The active chlorophyll a_2 in suspensions of lyophilized and Tris-washed chloroplasts. *Biochimica et Biophysica Acta*, 205:303-6.

With R. Govindjee, J. Lavorel, J. M. Briantais

Fluorescence characteristics of lyophilized maize chloroplasts suspended in buffer. *Ibid.*, pp. 361-70.

With F. Cho

Fluorescence spectra of chlorella in the 295-77° K range. *Ibid.*, pp. 371-78.

Low temperature (4-77° K) spectroscopy of chlorella; temperature dependence of energy transfer efficiency. *Ibid.*, 216:139-50.

Low temperature (4-77° K) spectroscopy of anacystis; temperature dependence of energy transfer efficiency. *Ibid.*, pp. 151-61.

With P. Mohanty, J. C. Munday, Jr.

Time dependent quenching of chlorophyll a fluorescence from (pigment) System II by (pigment) System I of photosynthesis in chlorella. *Ibid.*, 223:198-200.

HANEY, ALAN W., Assistant Professor

Articles

With F. A. Bazzaz

Some ecological implications of the distribution of hemp (*Cannabis sativa L.*) in the United States of America. In *The botany and chemistry of Cannabis*, ed. C. R. B. Joyce and S. H. Curry, J. and A. Churchill, London, pp. 39-48.

HANSON, JOHN B., Professor and Head of Department

Articles

With S. S. Malhotra

Picloram sensitivity and nucleic acids in plants. *Weed Science*, 18:1-4.

With R. J. Miller, W. S. Dumford, D. E. Koeppe

Divalent cation stimulation of substrate oxidation by corn mitochondria. *Plant Physiology* 45:649-53.

HOFFMAN, LARRY R., Associate Professor

Articles

Observations on the fine structure of *Oedogonium*, VI: The striated component of the compound flagellar "roots" of *O. cardiacum*. *Canadian Journal of Botany*, 48, 1:189-96.

LAUGHNAN, JOHN R., Professor

Articles

With S. J. Gabay

Genetic analysis of the aberrant behavior of an X-chromosome duplication in the germ line of *Drosophila melanogaster* males. *Genetics*, 65, 2:249-65.

Observations on genetic properties of intra-

chromosomal recombination. *Molecular and General Genetics*, 108:93-96.

LESNAW, JUDITH A., Research Associate

Articles

With M. E. Reichmann

Identity of the 5'-terminal RNA nucleotide sequence of the satellite tobacco necrosis virus and its helper virus: possible role of the 5'-terminus in the recognition by virus-specific RNA replicase. *Proceedings of the National Academy of Sciences*, 66: 140-45.

Determination of molecular weights of plant viral protein subunits by polyacrylamide gel electrophoresis. *Virology*, 42:724-31.

With M. E. Reichmann, B. Wolf

A mechanism of the irreversible inactivation of bovine pancreatic ribonuclease by diethylpyrocarbonate: a general reaction of diethylpyrocarbonate with proteins. *European Journal of Biochemistry*, 13:519-25.

With M. E. Reichmann, B. Wolf, P. Michelin-Lausarot

Preparation of polymeric protein markers and an investigation of their behavior in dodecyl sulfate-polyacrylamide gel electrophoresis. *Biochimica et Biophysica Acta*, 200:180-83.

MAC LEOD, RODERICK, Assistant Professor

Articles

With R. Chiu, H. Liu, L. M. Black

Potato yellow dwarf virus in leafhopper cell culture. *Virology*, 40:387-96.

With D. L. Knudson

Mycoplasma Pneumoniae and Mycoplasma Salvarium: electron microscopy of colony growth in agar. *Journal of Bacteriology*, 101:609-17.

PAOLILLO, DOMINICK J., JR., Professor

Articles

With F. A. Bazzaz, R. H. Jagels

Photosynthesis and respiration of forest and alpine populations of *Polytrichum juniperinum*. *The Bryologist* 73:579-85.

PAYNE, WILLARD W., Associate Professor

Articles

Ambrosia L. Ragweed. In *Manual of the vascular plants of Texas*, by D. S. Correll and M. C. Johnston, Texas Research Foundation, Renner, Texas, pp. 1630-33.

The sunflower or composite family (Compositae) — the ragweed tribe (Ambrosieae). In *A manual of clinical allergy*, by J. M. Sheldon, R. G. Lovell, and K. P. Mathews, W. B. Saunders Co., Philadelphia, Pennsylvania, pp. 358-62.

Survey for eleven American journals. In *Biosystematic literature; contributions to a biosystematic literature index (1945-1964)*, ed. by O. T. Solbrig and Th. W. J. Gadda, International Association for Plant Taxonomy, Regnum vegetabile 69, Utrecht, Netherlands, pp. 1-566.

Preliminary reports on the flora of Wisconsin no. 62. Compositae VI. Composite family VI. The genus *Ambrosia* — the ragweeds. *Wisconsin Academy of Science, Arts, and Letters*, 58:353-71.

Helicocytic and allelocytic stomata: unrecognized patterns in the Dicotyledonae. *American Journal of Botany*, 57, 2:140-47.

With J. J. Skvarla

Electron microscope study of *Ambrosia* pollen (Compositae: Ambrosieae). *Grana*, 10, 2: 89-100.

PETERSON, JEAN F., Research Associate

Articles

Electron microscopy of soil-borne wheat mosaic virus in host cells. *Virology*, 42, 2: 304-10.

PHILLIPS, TOM L., Associate Professor

Articles

Morphology and evolution of *Botryopteris*, a Carboniferous age fern. I: Observations on some European species. *Palaeontographica*, 130-B:137-72.

With S.W. Rosso

Spores of *Botryopteris globosa* and *Botryopteris americana* from the Pennsylvanian. *American Journal of Botany*, 57, 5:543-51.

REDDY, DODLA V. RAGHAVA, Research Associate

Articles

With K. N. Rao, A. Appa Rao

A ring spot strain of Potato Virus X on chilli. *Indian Phytopathology*, 23:69-73.

Effect of different molarities and pH of potassium phosphate buffer on infectivity of PVX. *Ibid.*, pp. 131-33.

REICHMANN, MANFRED E., Professor

Articles

With J. A. Lesnaw

Identity of the 5'-terminal RNA nucleotide sequence of the Satellite Tobacco Necrosis Virus and its helper virus: possible role of the 5'-terminus in the recognition by virus-specific RNA replicase. *Proceedings of the National Academy of Sciences*, 66: 140-45.

Determination of molecular weights of plant viral protein subunits by polyacrylamide gel electrophoresis. *Virology*, 42:724-31.

With N. J. Leonard, J. J. McDonald

Reaction of diethylpyrocarbonate with nucleic acid components. I: Adenine. *Proceedings of the National Academy of Sciences*, 67:93-98.

With P. Michelin-Lausarot, C. Ambrosino, R. L. Steere

The protein of some strains of Tomato Bushy Stunt Virus. *Virology*, 41:160-65.

With A. Klein

Isolation and characterization of two species of double-stranded RNA from tobacco leaves doubly infected with Tobacco Necrosis and Satellite Tobacco Necrosis Viruses. *Ibid.*, 42:269-72.

With B. Wolf, J. A. Lesnaw

A mechanism of the irreversible inactivation of bovine pancreatic ribonuclease by diethylpyrocarbonate: a general reaction of diethylpyrocarbonate with proteins. *European Journal of Biochemistry* 13:519-25.

With B. Wolf, P. Michelin-Lausarot, J. A. Lesnaw

Preparation of polymeric protein markers and an investigation of their behaviour in dodecyl sulfate-polyacrylamide gel electrophoresis. *Biochimica et Biophysica Acta*, 200: 180-83.

SEIGLER, DAVID S., Assistant Professor

Articles

With K. L. Mikolajczak, C. R. Smith, Jr., I. A. Wolf, R. B. Bates

Structure and reactions of a cyanogenetic lipid from *Cordia Verbenacea* DC seed oil. *Chemistry and Physics of Lipids*, 4:147-61.

STEFFENSEN, DALE M., Professor

Articles

With D. E. Wimber

Localization of 5S RNA genes on *Drosophila* chromosomes by RNA-DNA hybridization. *Science*, 170:639-41.

SYBESMA, CHRISTIAAN, Professor

See Physiology and Biophysics.

TUVESON, ROBERT W., Associate Professor

Articles

With J. Mangan

A UV-sensitive mutant of *Neurospora* defective for photoreactivation. *Mutation Research*, 9:455-66.

VANDERHOEF, LARRY N., Assistant Professor

Articles

With R. F. Bohannon, J. L. Key

Purification of transfer RNA and studies on aminoacyl-tRNA synthetases from higher plants. *Phytochemistry*, 9:2291-2304.

With J. L. Key

The fractionation of transfer RNA from roots of pea seedlings. *Plant Physiology*, 46: 294-98.

DOCTORAL DISSERTATIONS

Johnson, Karen L. (L. C. Bliss, Adviser), Alpine vegetation and soils of Mesa Seco Plateau, San Juan Mountains, Colorado.

Kreitner, Gerald L. (Z. B. Carothers, Adviser), The ultrastructure of spermatogenesis in the liverwort, *Marchantia polymorpha*.

Moser, John W. (Z. B. Carothers, Adviser), An ultrastructural study of spermatogenesis in *Phaeoceros laevis* subsp. *Carolinianus*.

Sieren, David J. (G. N. Jones, Adviser), A taxonomic revision of the genus *Euthamia* (Compositae).

Wise, E. Spencer (L. C. Bliss, Adviser), A study of energy fixation and net production of plant communities in salt marshes of Back River, Virginia.

Zinsmeister, Dorothy D. (Z. B. Carothers, Adviser), An ultrastructural and histochemical study of oogenesis in *Marchantia polymorpha*.

BUSINESS ADMINISTRATION

ALBANESE, ROBERT, Visiting Associate Professor

Articles

Overcoming resistance to stability. *Business Horizons*, 13, 2:35-42.

Comparative study of undergraduate business majors with undergraduate non-business majors. *Training and Development Journal*, 24, 10:34-39.

Management and common sense. *Advanced Management Journal*, 35, 2:77-81.

BEDFORD, NORTON M., Professor

See Accountancy.

BERHOLD, MARVIN H., Assistant Professor

Articles

It's permutations or combinations. *Decision Sciences*, 1, 3-4:513-15.

BLACK, ROBERT L., Associate Professor

Articles

Warranties under the uniform commercial

- code. *The Practical Accountant*, 1970, 5-6: 54-55.
 Forged indorsements on checks. *Ibid.*, 7-8: 50-51.
- COHEN, JOEL B., Associate Professor
 Articles
 With M. E. Goldberg
 The dissonance model in post-decision product evaluation. *Journal of Marketing Research*, 8:315-21.
- COOPER, JAMES R., Assistant Professor
 See Finance.
- CORLEY, ROBERT N., Professor
 Articles
 "Blue sky" takes many forms. *American Business Law Journal*, 1970, Fall:53-63.
- FERBER, ROBERT, Research Professor of Economics and Marketing
 Books Edited
 Readings in marketing research. Agency for International Development, United States Department of State, Mexico City, 645 pp. In Spanish.
 Articles
 The responsibilities of marketing. *Journal of Business Administration*, 2, 1:43-48.
 The expanding role of marketing. *Journal of Marketing*, 34, 1:29-30.
 Further reflections on consumer panels. *British Journal of Marketing*, 4, 1:29-34.
- Reviews
 Purchasing behavior and personal attributes, by William F. Massy, Ronald E. Frank, Thomas M. Lodahl. *Journal of Economic Literature*, 2, 2:483-85.
- GARDNER, DAVID M., Associate Professor
 Articles
 An experimental investigation of the price quality relationship. *Journal of Retailing*, 46, 3:25-41.
 The distraction hypothesis in marketing. *Journal of Advertising Research*, 10, 6:25-30.
 With K. M. Rowland
 A self-tailored approach to incentives. *Personnel Journal*, 49, 11:907-12.
 With J. L. Simon
 Le "nuove proteine" e i problemi alimentari mondiali. *Mercurio*, 12, 5:45-48.
- HILL, RICHARD M., Professor
 Bulletins and Technical Reports
 Profit by your wholesalers' services. Small Business Administration, Washington, D.C., 6 pp.
- HUME, ROBERT B., Lecturer
 See Economics.
- RAGO, LOUIS J., Associate Professor
 Books
 Mathematische modelle der programmierung. Dr. Max Gehlen Verlag, Baden-Baden und Bad Homburg, 150 pp.
 Operations research in der productionspraxis. Dr. Th. Gabler Verlag, Wiesbaden, 321 pp.
- ROWLAND, KENDRITH M., Associate Professor
 Articles
 With D. M. Gardner
 A self-tailored approach to incentives. *Personnel Journal*, 49, 11:907-12, 917.
- With W. E. Scott, Jr.
 The generality and significance of semantic differential scales as measures of "morale." *Organizational Behavior and Human Performance*, 5, 1:576-91.
- With D. M. Gardner, S. M. Nealey
 Business gaming in education and research: an empirical investigation. In *Proceedings, 13th annual conference, Midwest Academy of Management*, pp. 273-97.
- Reviews
 Is scientific management possible? A critical examination of Glacier's theory of management, by J. Kelly. *Personnel Psychology*, 22, 4:524-26.
- SCHOENFELD, HANS MARTIN W., Professor
 See Accountancy.
- SHETH, JAGDISH N., Associate Professor
 Articles
 With J. S. Armstrong
 Factor analysis of marketing data: a critical evaluation. In *Marketing involvement in society and the economy*, ed. by Phillip R. McDonald, American Marketing Association, Chicago, pp. 137-44.
 Multivariate analysis of marketing data. *Journal of Advertising Research*, 10, 1: 29-40.
 Are there differences in post-decision dissonance reduction between housewives and students? *Journal of Marketing Research*, 7, 2:243-45.
 Measurement of multidimensional brand loyalty of a consumer. *Ibid.*, 3:348-54.
 Multivariate revolution in marketing research. *Journal of Marketing*, 35, 1:13-19.
- Reviews
 Purchasing behavior and personal attributes, by William F. Massy, Ronald Frank, James Lodahl. *Journal of Marketing Research*, 7, 3:403-4.
- SIMON, JULIAN L., Professor
 Books
 Issues in the economics of advertising. University of Illinois, Urbana, 371 pp.
 Articles
 The concept of causality in economics. *Kyklos*, 23, 2:226-54.
 A plan to improve the attribution of scholarly articles. *American Sociologist*, 5:265-67.
 The per-capita-income criterion and natality policies in poor countries. *Demography*, 7: 369-78.
 Family planning prospects in less developed countries and a cost-benefit analysis of various alternatives. *Economic Journal*, 80: 58-71.
- With D. J. Aigner
 Cross-sectional budget studies, aggregate time-series studies, and the permanent hypothesis. *American Economic Review*, 60, 6:341-51.
 A specification bias interpretation of cross-section vs. time series parameter estimates. *Western Economic Journal*, 8:144-61.
- SUDMAN, SEYMOUR, Associate Professor
 Books
 With N. Bradburn, G. Gockel
 Racial integration in American neighborhoods. National Opinion Research, Chicago, 599 pp.
 Articles
 The multiple uses of primary sampling areas

of national probability samples. *Journal of the American Statistical Association*, 65, 1:61-70.

Reviews

The logic of survey analysis, by Morris Rosenberg. *American Journal of Sociology*, 75, 4:574-75.

DOCTORAL DISSERTATIONS

Anderson, Peggy E. (D. P. Flanders, Adviser), Managerial input composition under conditions of differentiated oligopoly in personnel management.

Kanchanadul, Veeravat (N. M. Bedford, Adviser), The applicability of systems concepts in the decision making of certain private enterprises in Thailand.

McNamara, Carlton P. (F. M. Jones, Adviser), Adoption and implementation of the marketing concept by American industry.

Montasser, Saadia H. (D. P. Flanders, Adviser), A comparative study of single-equation estimation methods using prior information: a Monte Carlo study.

Watson, Charles E. (K. M. Rowland, Adviser), Staffing management positions in U.S. owned business subsidiaries in Brazil.

CERAMIC ENGINEERING

ALLEN, ALFRED W., Professor

Articles

With A. W. Nutt, Jr., J. H. Handwerk

Elastic and anelastic response of polycrystalline UO_2-PuO_2 . *Journal of the American Ceramic Society*, 53, 4:205-10.

BERGER, RICHARD L., Associate Professor

See Civil Engineering.

BERGERON, CLIFTON G., Professor

Articles

With R. J. Eagan, J. P. De Luca

Crystal growth in the system $PbO-B_2O_3$. *Journal of the American Ceramic Society*, 53, 4:214-19.

With J. A. Laird

A chain-folding mechanism for growth of a $BaO \cdot 2B_2O_3$ crystal in its melt. *Ibid.*, 9: 482-85.

Boron coordination in $PbO \cdot 2B_2O_3$ and $BaO \cdot 2B_2O_3$ melts. *Ibid.*, 7:410-12.

With S. R. Nagel, R. J. Eagan

Enthalpy of fusion of $SrO \cdot 2B_2O_3$. *Ibid.*, 4: 227-28.

Reviews

Inorganic crystal chemistry, by Istvan Naray-Szabo. *American Ceramic Society Ceramic Abstracts*, 1:31.

BROWN, SHERMAN D., Associate Professor

Articles

With G. Y. Onoda, Jr.

Low-silica glasses based on calcium aluminates. *Journal of the American Ceramic Society*, 53, 6:311-16.

COOK, RALPH L., Professor

Articles

With K. Hanna, D. L. Kanro

Hydration of dibarium silicate, I: Stoichiometry of hydration. *Journal of Applied Chemistry*, 20:334-40.

Hydration of dibarium silicate, II: Rate of hydration. *Ibid.*, pp. 341-45.

FRIEDBERG, ARTHUR L., Professor and Head of Department

Articles

With R. R. Tummala

Thermal expansion of composites as affected by the matrix. *Journal of the American Ceramic Society*, 53, 7:376-80.

Stresses in glass-crystal composites. *Journal of Nuclear Materials*, 32, 2:354-56.

Residual stresses in glass-crystal composites. *Journal of Materials Science*, 1970, August: 713-14.

Internal stresses in glass-crystal composites. *Ibid.*, pp. 7, 13, 14.

Thermal expansion of composite materials. *Journal of Applied Physics*, 41, 13:5104-7.

With G. G. Paulson

Coalescence and agglomeration of gold films. *Thin Solid Films*, 5:47-52.

KENNER, GERRY H., Assistant Professor

Articles

Vascular changes in bones following bone-seeking radionuclides. In *Delayed effects of bone-seeking radionuclides*, ed. by C. W. Mays, W. S. S. Jee, R. D. Lloyd, University of Utah, Salt Lake City, pp. 437-55.

With D. L. Berliner, M. H. Bartley,

W. S. S. Jee

Activity of anti-inflammatory steroids upon fibroblasts and bone. *British Journal of Dermatology*, 82, Supplement 6:53-61.

With W. S. S. Jee, H. Z. Park, W. E. Roberts

Corticosteroid and bone. *American Journal of Anatomy*, 129, 4:477-80.

Bulletins and Technical Reports

Cortisol and mineral transport. *Research in Radiobiology*, Salt Lake City, Utah, AEC-COO-119-241, 10 pp.

WILLIAMS, WENDELL S., Professor

See Physics.

DOCTORAL DISSERTATIONS

Hang, Kenneth W. (R. L. Cook, Adviser),

Phase transitions in the lead hafnate-lead titanate system.

CHEMICAL ENGINEERING

DRICKAMER, HARRY G., Professor

Articles

Revised calibration for high pressure electrical resistance cell. *Review of Scientific Instruments*, 41:1667.

Electronic structure and electronic transitions at high pressure. *Comments on Solid State Physics*, 3:53-59.

With S. C. Fung

The effect of pressure on the C-Fe bond in Ferrocyanides and Ferricyanides. *Journal of Chemical Physics*, 51:4353-59.

The effect of pressure on the C-Fe bond in substituted cyanides. *Ibid.*, pp. 4360-64.

With D. C. Fisher, D. C. Grenoble

Effect of pressure on the oxidation state and spin state of iron. In *Les Propriétés Physiques des Solides sous Pression*, Centre National de la Recherche Scientifique, Paris, pp. 55-65.

With V. C. Bastron, D. C. Fisher,

D. C. Grenoble

The high pressure chemistry of iron. *Journal of Solid State Chemistry*, 2:94-105.

ECKERT, CHARLES A., Associate Professor

Articles

With L. G. Schornack

The effect of pressure on the density and dielectric constant of polar solvents. *Journal of Physical Chemistry*, 74:3014.

With R. A. Grieger

On the volume of Diels-Alder transition states. *Journal of the American Chemical Society*, 92:2918.

Mechanistic evidence for the Diels-Alder reaction from high-pressure kinetics. *Ibid.*, p. 7149.

Solvent effects on the activation volume of a Diels-Alder reaction. *Transactions of the Faraday Society*, 66:2579.

A new technique for chemical kinetics at high pressure. *American Institute of Chemical Engineers Journal*, 16:766.

With J. R. McCabe, R. A. Grieger

Solvent effects on the volume of a transition state. *Industrial and Engineering Chemistry Fundamentals*, 9:156.

With K. F. Wong

Solution thermodynamics and kinetic solvent effects on a Diels-Alder reaction. *Transactions of the Faraday Society*, 66:2313.

Pseudo-thermodynamic techniques for the estimation of chemical reaction rates and equilibria. *Industrial and Engineering Chemistry*, 62, 9:16.

With J. Jonas, T. E. Bull

High-pressure sample cell for the NMR relaxation time measurements in liquids. *Review of Scientific Instruments*, 41:1240.

HANRATTY, THOMAS J., Professor

Articles

With D. P. Siegarth

Computational and experimental study of the effect of secondary flow on the temperature field and primary flow in a heated horizontal tube. *International Journal of Heat and Mass Transfer*, 13:27.

With K. K. Sivkar

Limiting behavior of the turbulent transverse velocity component close to a wall. *Journal of Fluid Mechanics*, 44:605.

Relation of turbulent mass transfer to a wall at high Schmidt numbers to the velocity field. *Ibid.*, p. 589.

QUINN, JOHN A., Professor

Articles

With J. L. Anderson

The transition to slug flow in bubble columns. *Chemical Engineering Science*, 25:338-40.

Bubble columns: flow transitions in the presence of trace contaminants. *Ibid.*, pp. 373-80.

SANI, ROBERT L., Associate Professor

Articles

With P. M. Gresho

Direct method for inverting symmetric tri-diagonal and quasitri-diagonal matrices. *Transactions of the American Society of Mechanical Engineers: Journal of Applied Mechanics*, 37, 4:1194-95.

The effects of gravity modulation on the stability of a heated fluid layer. *Journal of Fluid Mechanics*, 40, 4:783-806.

With G. S. Charlson

Thermoconvective instability in a bounded cylindrical fluid layer. *International Journal of Heat and Mass Transfer*, 13, 9: 1479-95

SCHMITZ, ROGER A., Associate Professor

Articles

Heat flux through a strip heated flat plate. *Journal of Heat Transfer*, 92:201-2.

With R. B. Root

An experimental study of unstable states in a loop reactor. *American Institute of Chemical Engineers Journal*, 16, 3:356-58.

With S. A. Vejtasa

An experimental study of steady-state multiplicity and stability in an adiabatic stirred reactor. *Ibid.*, pp. 410-19.

With R. C. Lindberg

Multiplicity of states with surface reaction on a blunt object in a convective system. *Chemical Engineering Science*, 25:901-4.

WESTWATER, JAMES W., Professor and Head of Department

Articles

With J. R. Bragg

Film boiling of immiscible liquid mixtures on a horizontal plate. In *Proceedings of fourth international heat transfer conference*, ed. by Ulrich Grigull and Erich Hahne, Verein Deutscher Ingenieure, Dusseldorf, Germany, Paper B7.1, 11 pp.

With W. L. Heitz

Extension of the numerical method for melting and freezing problems. *International Journal of Heat and Mass Transfer* 13, 8: 1371-75.

With R. E. Tower

Effect of plate inclination on heat transfer during dropwise condensation of steam. *Chemical Engineering Progress Symposium Series*, 66, 102:21-25.

DOCTORAL DISSERTATIONS

Bernhardt, Steven H. (J. W. Westwater, Adviser), Condensation of immiscible mixtures.

Bondurant, David L. (J. W. Westwater, Adviser), Performance of transverse fins for boiling heat transfer.

Cook, Gerald W. (T. J. Hanratty, Adviser), Turbulent flow over solid wavy surfaces.

Fang, Ming (R. A. Schmitz, Adviser), An experimental study of the carbon monoxide flame in stagnation flow.

Grieger, Richard A. (C. A. Eckert, Adviser), High-pressure kinetic studies of Diels-Alder reactions.

Heitz, Walter L. (J. W. Westwater, Adviser), Hydrodynamic stability of water and its effect on melting and freezing.

Karabelas, Anastasius J. (T. J. Hanratty, Adviser), Flow through regular assemblies of spheres.

Kim, Young Y. (T. J. Hanratty, Adviser), Non-linear effects in wave motion.

Klein, George J. (J. W. Westwater, Adviser), Heat transfer from multiple fins to boiling liquids.

Miya, Masayoshi (T. J. Hanratty, Adviser), Properties of roll waves.

Stone, Frederick C. (R. A. Schmitz, Adviser), The stability and control of an adiabatic loop reactor.

Sump, Gary D. (J. W. Westwater, Adviser), Boiling heat transfer from horizontal cylinders to immiscible liquid-liquid mixtures.

Wong, Kin F. (C. A. Eckert, Adviser), Molecular thermodynamics and solvent effects on the Diels-Alder reaction.

CHEMICAL PHYSICS

DOCTORAL DISSERTATIONS

Bull, Thomas E. (J. Jonas, Adviser), Nuclear magnetic relaxation in liquids under high pressure.

CHEMISTRY

APPLEQUIST, DOUGLAS E., Professor

Articles

With M. R. Johnston, F. Fisher

The synthesis and deamination of a deuterium-labeled spiropentylamine. *Journal of the American Chemical Society*, 92:4614-17.

BAILAR, JOHN C., JR., Professor

Articles

Moses Gomberg. *Biographical Memoirs of the National Academy of Sciences*, 41:141-73.

The selective homogeneous hydrogenation of soybean methyl esters. *Journal of the American Oil Chemists Society*, 47, 12:475-77.

With B. W. Baylis

Proton magnetic resonance and infrared studies on bis-(o-phenylenebisdimethylarsine)-cobalt(III) complexes. *Inorganic Chemistry*, 9:641-48.

With I. O. Hartwell

Preparation and characterization of tyrosine and lysine metal chelate polyesters and polyamides. *Journal of the American Chemical Society*, 92:1284-89.

With K. S. Patel, K. L. Rinehart, Jr.

Mass spectral studies of some β -Diketones and their beryllium complexes. *Organic Mass Spectrometry*, 3:1239-54.

Studies of Schiff's bases and their metal complexes. *Ibid.*, 4:441-51.

BAREFIELD, E. KENT, Assistant Professor

Articles

With L. T. Taylor

Copper(II) and nickel(II) complexes of bis-(2-aminoethyl) sulfide. *Journal of Inorganic and Nuclear Chemistry*, 31:3831.

With B. H. Busch

Oxidation of Ni(II) to Ni(III) with nitrosyl tetrafluoroborate. *Chemical Communications*, 9:522.

With G. W. Parshall, F. N. Tebbe

Catalysis of aromatic hydrogen-deuterium exchange by metal hydrides. *Journal of the American Chemical Society*, 92:5234.

BEAK, PETER, Professor

Articles

With T. L. Chaffin

Geminal substitution via steroidal 2- and 4-cyano-3-ones. *Journal of Organic Chemistry*, 35:2275-82.

With D. A. Simpson, S. G. Smith

Intermolecular methyl transfers in the methylation of anisole. *Journal of the American Chemical Society*, 92:1071-73.

With J. W. Worley

The thiophilic addition of phenyllithium to thiobenzophenone. *Ibid.*, 92:4142.

With C. R. Payet

Reductive dimerization of difunctional aryl imines on photolysis. *Journal of Organic Chemistry*, 38:3281-86.

BEATTIE, JAMES K., Assistant Professor

Articles

With Sr. H. Elsbernd

Conformational analysis of tris(ethylenediamine) ruthenium(II) ion by proton magnetic resonance. *Journal of the American Chemical Society*, 92:1946-48.

A deprotonated ethylenediamine complex of ruthenium. *Ibid.*, pp. 2598-2600.

With M. J. Carter

The kinetic chelate effect. Chelation of ethylenediamine on platinum(II). *Inorganic Chemistry*, 9:1233-38.

BELFORD, R. LINN, Associate Professor

Articles

With N. D. Chasteen

Triplet state of a binuclear copper d-tartrate and electron paramagnetic resonance of the copper tartrates. *Inorganic Chemistry*, 9, 1:169-75.

With H. So

Electron spin resonance of copper bis dibenzoylmethane. Superhyperfine anomalies. *Ibid.*, pp. 2194-96.

Comment on determination of nuclear quadrupole interactions: copper-doped rutile. *Physical Review*, B2, 10:3810-11.

BROWN, THEODORE L., Professor

Books

With R. S. Drago

Experiments in general chemistry (third ed.). Allyn and Bacon, Inc., Boston, 280 pp.

Core experiments in general chemistry. *Ibid.*, 196 pp.

Articles

With M. Y. Darensbourg, B. Y. Kinura, G. E. Hartwell

Cross-association of t-Butyllithium. *Journal of the American Chemical Society*, 92, 1:1236-42.

With D. L. Tibbetts

Intramolecular exchange in the cation 1,2 bis (diphenylphosphino) ethane(2-Methylallyl) palladium. *Ibid.*, 10:3031-34.

With W. G. McDugle, Jr., L. G. Kent

Vibrational and pure nuclear quadrupole resonance spectra of hexahalometallates. *Ibid.*, 12:3645-53.

With H. L. Lewis

Association of alkyl lithium compounds in hydrocarbon media. Alkyl lithium-base interactions. *Ibid.*, 15:4664-70.

With L. G. Kent

Temperature dependences of chlorine and bromine nuclear quadrupole resonances in hexahalometallates. *Journal of Physical Chemistry*, 74, 20:3672-79.

With D. D. Spencer, J. L. Kirsch

Cobalt-59 nuclear quadrupole resonance spectra of tetracarbonyl cobalt-tin compounds. *Inorganic Chemistry*, 9, 1:235-38.

CHANDLER, DAVID, Assistant Professor

Articles

With H. C. Andersen

Molecular expansion in equilibrium statistical mechanics. I: General theory and application to the classical electron gas. *Journal of Chemical Physics*, 53, 2:547-54.

With J. D. Weeks

Equilibrium structure of simple liquids. *Physical Review Letters*, 25, 3:149-52.

COATES, ROBERT M., Assistant Professor

Articles

With S. L. Melvin, Jr.

Total synthesis of (\pm)-karhana ether. *Journal of Organic Chemistry*, 35:865-67.

With J. E. Shaw

Stereoselective total synthesis of (\pm)-eremoligenol, (\pm)-eremophilene, (\pm)-valerianol, and (\pm)-valencene. *Ibid.*, pp. 2597-2601.

Reduction of β -ketoester methoxymethyl enol ethers to saturated esters with lithium in liquid ammonia. *Ibid.*, pp. 2601-5.

Total synthesis of (\pm)-calarene. *Journal of the American Chemical Society*, 92:5657-64.

With R. M. Freidinger

Total synthesis of (\pm)-sesquicarene. *Tetrahedron*, 26:3487-93.

With J. L. Kirkpatrick

Cyclopropane participation and degenerate rearrangement in the solvolysis of 9-pentacyclo[4.3.0.0^{2,4}.0^{3,8}.0^{5,7}]nonyl *p*-nitrobenzoate. *Journal of the American Chemical Society*, 92:4883-92.

With J. P. Chen

Tricyclic olefins from solvolysis of longicamphenyl tosylate. *Chemical Communications*, pp. 1481-82.

CURTIN, DAVID Y., Professor

Articles

With J. D. McCullough, Jr., L. L. Miller, I. C. Paul, D. B. Pendergrass, Jr.

Loss of solvent from a molecular crystal. *Molecular Crystals and Liquid Crystals*, 11: 407-12.

With D. A. Dieterich, I. C. Paul

Crystal structure of nitrosobenzene dimer cisazobenzene dioxide. *Chemical Communications*, pp. 1710-11.

DRAGO, RUSSELL S., Professor

Books

Chemical thermodynamics. Bogden and Quigley, Inc., New York, 25 pp.

With T. L. Brown

Experiments in general chemistry (third ed.). Allyn and Bacon, Inc., Boston, 280 pp.

Core experiments in general chemistry. *Ibid.*, 196 pp.

Articles

With W. Partenheimer

Preparation and thermodynamic data for adducts of bases with some Cu(II) β -diketonates. *Inorganic Chemistry*, 9:47-52.

With W. D. White

Semiempirical calculations of some ^2H and ^{14}N nuclear quadrupole coupling constants. *Journal of Chemical Physics*, 52:4717-23.

With R. E. Cramer

Nuclear magnetic resonance contact shift and delocalization mechanisms in octahedral nickel(II) complexes. *Journal of the American Chemical Society*, 92:66-70.

With R. E. DiSimone

Magnetic resonance studies of some low-spin d^5 tris diimine complexes. *Ibid.*, pp. 2343-52.

With D. G. Brown

Fermi contact shifts in ion pairing systems. *Ibid.*, pp. 1871-75.

With S. E. Anderson, Jr.

Electron delocalization and bonding in some paramagnetic bisarene complexes. I: Nuclear magnetic resonance contact shift studies. *Ibid.*, pp. 4244-54.

With J. I. Zink

Nuclear magnetic resonance contact shift infrared and electronic spectroscopic study of bis(stilbenediamine)-nickel(II) complexes. *Ibid.*, pp. 5339-47.

With N. O'Bryan, G. C. Vogel

A frequency shift-enthalpy correlation for a given donor with various hydrogen-bonding acids. *Ibid.*, pp. 3924-29.

With G. C. Vogel

Hydrogen bonding of sulfur donors with various phenols. *Ibid.*, pp. 5347-51.

With M. S. Nosari

Spectral and calorimetric studies of hydrogen bonding with pyrrole. *Ibid.*, pp. 7086-90.

FLYGARE, WILLIS H., Professor

Articles

With D. VanderHart

The molecular zeeman effect in CH_2Cl , CH_3Br , and CH_3I . *Molecular Physics*, 18, 1:77-93.

With S. L. Hsu

The microwave spectra, barriers to internal rotation of the methyl group, and molecular electric dipole moments in *trans*- and *cis*-1,3-pentadiene. *Journal of Chemical Physics*, 52, 3:1053-60.

With J. M. Pochan, R. G. Stone

The molecular g -values, magnetic susceptibility anisotropies, diamagnetic and paramagnetic susceptibilities, second moment of the charge distribution, and molecular quadrupole moments of H_3CCN and H_3CNC . *Ibid.*, 5:2478-88.

With R. C. Benson

Molecular zeeman effect of dimethyl ether and dimethyl sulfide and comparison of the magnetic susceptibility anisotropies with ethylene sulfide and ethylene oxide. *Ibid.*, 10:5291-5301.

Molecular zeeman effect of cyclopentadiene and isoprene and comparison of the magnetic susceptibility anisotropies. *Journal of the American Chemical Society*, 92:7523-33.

Molecular zeeman effect of cyclobutene, methylene cyclopropane, and methylene cyclobutane. *Journal of Chemical Physics*, 53, 12:4470-79.

With R. C. Benson, H. L. Tigelaar, S. L. Rock

Molecular zeeman effect in trimethylene oxide and trimethylene sulfide. *Ibid.*, 52, 11: 5628-36.

With J. H. S. Wang

The molecular g -values, magnetic susceptibility anisotropies, second moments of the electronic charge distribution, and molecular quadrupole moments in pyridine. *Ibid.*, pp. 5636-42.

The molecular zeeman effect and the determination of the molecular magnetic moments (g -values), magnetic susceptibilities, and molecular quadrupole moments in methyl formate and glycolaldehyde. *Ibid.*, 53, 12: 4479-86.

With S. L. Hsu, A. H. Andrist, T. D. Gierke, R. C. Benson, J. E. Baldwin

The microwave spectrum, structure, molecular dipole and quadrupole moments, and magnetic properties of bicyclo [2.1.0]pent-2-ene. *Journal of the American Chemical Society*, 92:5250-53.

With W. G. Von Holle, J. H. S. Wang, R. S. Scott

Microwave spectroscopy of Li^+ ions in the KCl lattice. *Solid State Communications*, 8: 1363-67.

With R. L. Shoemaker

Molecular g-value, magnetic susceptibility anisotropy, and molecular quadrupole moment in OCSe. *Chemical Physics Letters*, 6, 6:576-81.

With S. G. Kukolich

Molecular zeeman effect in PH₂D and PHD₂ and the molecular g-values, magnetic susceptibilities, and molecular quadrupole moments in PH₃. *Ibid.*, 7, 1:43-49.

With H. L. Tigelaar

The sign of the nuclear spin-rotation constants of H in SiH₄ and GeH₄ and ¹⁹F in CF₄, SiF₄, and GeF₄. *Ibid.*, 7, 2:254-60.

The molecular zeeman effect of cyclobutanone. *Journal of Chemical Physics*, 53, 10: 3943-47.

With R. G. Stone, H. L. Tigelaar

The molecular quadrupole moments of SF₄. *Ibid.*, pp. 3947-51.

FORD, WARREN T., Assistant Professor**Articles**

Solvation of alkali 9-phenylfluorenes in mixtures of tetrahydrofuran and methanol. *Journal of the American Chemical Society*, 92:2857-61.

With R. Raduc, J. A. Walker

Addition of benzene to cyclopentadienyl- and indenylmagnesium bromide. *Chemical Communications*, pp. 966-67.

GUTOWSKY, HERBERT S., Professor, Director of School of Chemical Sciences, and Head of Department of Chemistry**Articles****With C. J. Jameson**

Density dependence of ¹²⁹Xe chemical shifts in mixtures of Xe and other gases. *The Journal of Chemical Physics*, 53, 6:2310-21.

HAIGHT, GILBERT P., JR., Professor**Books****With R. E. Dickerson, H. B. Gray**

Chemical principles. W. A. Benjamin, Inc., New York, 873 pp.

Articles**With T. J. Huang**

A paramagnetic monomeric molybdenum(V)-cysteine complex as a model for molybdenum-enzyme interaction. *Journal of the American Chemical Society*, 92:2336-42.

Bulletins and Technical Reports**With B. Z. Shakhshiri, M. P. Hanson**

General chemistry laboratory manual. Stipes Publishing Company, Champaign, Illinois, 274 pp.

HENDRICKSON, DAVID N., Assistant Professor**Articles****With M. Pelavin, J. M. Hollander, W. L. Jolly**

Phosphorus 2p electron binding energies. Correlation with extended Hückel charges. *Journal of Physical Chemistry*, 74, 5: 1116-21.

With J. M. Hollander, W. L. Jolly

Core-electron binding energies for compounds of boron, carbon, and chromium. *Inorganic Chemistry*, 9, 3:612-15.

With W. L. Jolly

Thermodynamic interpretation of chemical shifts in core-electron binding energies. *Journal of the American Chemical Society*, 92, 7:1863-71.

The proton magnetic resonance spectra of

pentaammine complexes of cobalt(III), rhodium(III), and iridium(III). *Inorganic Chemistry*, 9, 5:1197-1201.

With Y. S. Sohn, H. B. Gray

Electronic structure of ferricenium ion. *Journal of the American Chemical Society*, 92, 10:3233-34.

JONAS, JIRI, Associate Professor**Articles****With T. E. Bull**

¹⁹F Spin-rotational interactions in 1- and 2-trifluoromethyl-naphthalenes in the liquid state. *Journal of Chemical Physics*, 52: 1978-83.

The effect of pressure on the spin-lattice relaxation in liquid acetone. *Ibid.*, pp. 2779-80.

The effect of pressure on the intramolecular and intermolecular contributions to dipolar spin relaxation in benzene and chlorobenzene in the liquid state. *Ibid.*, pp. 4553-58.

Effect of pressure on the anisotropic reorientation of acetonitrile-d₃ in the liquid state. *Ibid.*, 53:3315-17.

With R. G. Parker

Adiabatic fast passage method for spin-lattice relaxation time measurements. *Review of Scientific Instruments*, 41:319-21.

With T. E. Bull, C. A. Eckert

High-pressure sample cell for the NMR relaxation time measurements in liquids. *Ibid.*, pp. 1240-41.

With R. A. Assink

Molecular motions of deuterated isobutylenes in the liquid state. *Journal of Chemical Physics*, 53:3315-17.

KATZENELLENBOGEN, JOHN A.,

Assistant Professor

Articles**With E. J. Corey, H. A. Kirst**

Total synthesis of β-santalol. *Journal of the American Chemical Society*, 92:6314-19.

LAITINEN, HERBERT A., Professor**Articles****With J. H. Carney**

Electrochemical study of exchange reactions of mercuric sulfide monolayers. *Analytical Chemistry Journal*, 42, 4:473-78.

With P. J. Sherwood

Charge separation and its effect on the electroreduction of Codienes(III). *Journal of Physical Chemistry*, 74, 8:1757-64.

With B. Popov

Electrochemical reduction of chromate in the presence of nickel chloride in molten lithium chloride-potassium eutectic. *Journal of the Electrochemical Society*, 117, 4: 482-91.

With D. Elliott, D. L. Zellmer

Electrochemical properties of polycrystalline tin oxide. *Ibid.*, 11:1343-48.

LEONARD, NELSON J., Professor**Articles****With J. C. Coll**

Synthesis and characterization of bicyclo[3.3.3]undecane and 1-azabicyclo[3.3.3]undecane. *Journal of the American Chemical Society*, 92:6685.

With D. B. Dixon

Small charged rings, XII: Aziridinium ring opening by carboxylic acids. *Journal of Organic Chemistry*, 35:3483-87.

With D. B. Dixon, J. R. Keenan

Small charged rings, XIII: Abnormal ring expansion of polycyclic aziridinium salts. *Ibid.*, pp. 3488-94.

With S. M. Hecht, A. S. Gupta

Mass spectra of ribonucleoside components of tRNA, II. *Analytical Biochemistry*, 38: 230-51.

With H. Iwamura, J. Eisinger

Synthetic spectroscopic models related to co-enzymes and base pairs, VII: Stacking interactions in tRNA. The "bend" at dimethylguanosine. *Proceedings of the National Academy of Sciences, U.S.*, 65:1025-32.

With J. J. McDonald, M. E. Reichmann

Reaction of diethylpyrocarbonate with nucleic acid components, I: Adenine. *Ibid.*, 67:93-98.

With S. M. Hecht, R. Y. Schmitz, F. Skoog

Cytokinins: synthesis and growth promoting activity of 2-substituted compounds in the N⁶-isopentenyladenine and zeatin series. *Phytochemistry*, 9:1173-80.

Cytokinins: influence of side chain planarity of N⁶-substituted adenines and adenosines on their activity in promoting cell growth. *Ibid.*, pp. 1907-13.

With T. G. Scott, R. D. Spencer, G. Weber

Emission properties of NADH. Studies of fluorescence lifetimes and quantum efficiencies of NADH, AcPyADH, and simplified synthetic models. *Journal of the American Chemical Society*, 92:687-95.

With S. M. Hecht, R. M. Bock, R. Y. Schmitz, F. Skoog

Cytokinin activity in tRNA^{Phe}. *Biochemical and Biophysical Research Communications*, 41:435-40.

With W. J. Burrows, D. J. Armstrong, M. Kaminek, F. Skoog, and others

The isolation and identification of four cytokinins from wheat germ rRNA. *Biochemistry*, 9:1867-72.

With D. J. Armstrong, P. K. Evans, W. J. Burrows, F. Skoog, and others

Cytokinins: activity and identification in *Staphylococcus epidermidis* transfer RNA. *Journal of Biological Chemistry*, 245: 2922-26.

LOMBARDI, JOHN R., Assistant Professor

Articles

On the correlation between structure and dipole moment in the excited state of substituted benzenes. *Journal of the American Chemical Society*, 92:1831-33.

The 5142 Å transition in thiophosgene ($\pi^* \leftarrow n$); rotational analysis and excited state structure. *Journal of Chemical Physics*, 52:6126-29.

With A. Hartford, Jr.

The 0-0 band of the 2880 Å transition in indene; hybrid character and rotational structure. *Journal of Molecular Spectroscopy*, 34:257-63.

Electronic spectrum of the 2877 Å band of styrene; rotational structure and transition moment. *Ibid.*, 35:413-19.

With A. Hartford, Jr., A. Muirhead

Hybrid character and rotational structure in the $\pi^* \leftarrow \pi$ systems of thionaphthene and benzofuran. *Ibid.*, pp. 199-213.

With K.-T. Huang

The dipole moment of the lowest singlet

$\pi^* \leftarrow \pi$ state of fluorobenzene. *Journal of Chemical Physics*, 52:5613-15.

The Zeeman effect in the visible spectrum of thiophosgene; evidence for the triplet nature of the 5496 Å band. *Ibid.*, p. 460.

MALMSTADT, HOWARD V., Professor

Books

With C. G. Enke

Computer logic. W. A. Benjamin, Inc., New York, 167 pp.

Articles

With G. Horlick

Basic and practical considerations for sampling and digitizing interferograms generated by a Fourier transform spectrometer. *Analytical Chemistry Journal*, 42, 12:1361-67.

MARCUS, RUDOLPH A., Professor

Articles

High order time-dependent perturbation theory for classical mechanics and for other systems of first order ordinary differential equations. *Journal of Chemical Physics*, 52, 9:4803-7.

Relation between state-selected cross-sections of endothermic reactions and rate constants of inverse steps. Application of biomolecular microcanonical activated complex theory. *Ibid.*, 53, 2:604-8.

A fourth picture in quantum mechanics. *Ibid.*, 53, 4:1349-55.

Extension of the WKB method to wave functions and transition probability amplitudes (S-matrix) for inelastic or reactive collisions. *Chemical Physics Letters*, 7, 5:525-32.

With M. Attermeyer

Vibrational-translational energy transfer in the near-adiabatic approximation. *Journal of Chemical Physics*, 52, 1:393-99.

With A. O. Cohen

Rotational-translational energy transfer, II: Comparison of action-angle solution with exact results. *Ibid.*, 52, 6:3140-51.

With J. N. L. Connor

Theory of reactive collisions: conformational transformation. *Ibid.*, 53, 8:3188-93.

With S. F. Wu

Analytical mechanics of chemical reactions, V: Application to the linear reactive H+H₂ systems. *Ibid.*, 53, 10:4026-35.

MARTIN, JAMES C., Professor

Articles

With J. H. Incremona

N-bromosuccinimide. Mechanisms of allylic bromination and related reactions. *Journal of the American Chemical Society*, 92: 627-34.

With J. W. Timberlake

Kinetic studies of reactions leading to cyclopropylcarbonyl radicals. Cyclopropyl-substituted azomethanes and hexacyclopolyethylene. *Ibid.*, pp. 978-83.

With B. R. Ree

Perpendicularly twisted cyclopropylcarbonyl and allyl cations: acetolysis of some 2-substituted derivatives of 1-adamantyl tosylate. *Ibid.*, pp. 1660-66.

Reviews

Structure and mechanism in organic chemis-

try, by C. K. Ingold, *Journal of the American Chemical Society*, 92:2597.

McDONALD, J. D., Assistant Professor

Articles

With Y. T. Lee, P. R. LeBreton,
D. R. Herschbach

Molecular beam reactive scattering with electron bombardment detector. *Review Science Institute*, 40:1402-8.

Molecular beam kinetics: evidence for preferred geometry in interhalogen exchange reactions. *Journal of Chemical Physics*, 51: 455-56.

NATUSCH, DAVID F. S., Assistant Professor

Articles

With L. J. Porter

Direct detection of Mercury (II)-thioether bonding in S-methyl cysteine and Methionine by PMR. *Chemical Communications*, p. 596.

With L. A. McLaughlan, R. H. Newman

A simple addition to a high resolution NMR spectrometer for accumulating relaxation measurements on a time averaging computer. *Journal of Magnetic Resonance*, 3: 489.

PAUL, IAIN C., Associate Professor

Articles

With S.M. Johnson

The perhydromethionide of an unsymmetrical N-carbomethoxyazepine dimer: the crystal and molecular structure. *Journal of the Chemical Society, Sect. B*, pp. 1244-47.

The crystal and molecular structure of the iron tricarbonyl complex of N-carbomethoxyazepine. *Ibid.*, pp. 1783-89.

With S. M. Johnson, M. G. Newton

The crystal and molecular structure of an unsymmetrical 6a-thiathiophthen: the single crystal x-ray analysis of 5-p-bromo-phenyl-3-benzoyl-2-methylthio-6a-thiathiophthen. *Ibid.*, pp. 985-93.

With N. J. Leonard, K. Golankiewicz,

R. S. McCredie, S. M. Johnson

Synthetic spectroscopic models related to coenzymes and base pairs, III: A 1,1¹-trimethylene-linked thymine photodimer of cis-syn structure. *Journal of the American Chemical Society*, 91:5855-62.

With P. L. Johnson

Unequal S-S bond lengths in a symmetrically-substituted thiathiophthen. *Chemical Communications*, pp. 1014-15.

Crystal and molecular structure of dicyclopentamethylenethiuram monosulphide. *Journal of the Chemical Society, Sect. B*, pp. 1296-1303.

With R. M. Coates, R. F. Farney,
S. M. Johnson

The crystal structure of khusimol p-bromobenzoate. *Chemical Communications*, pp. 999-1000.

With S. M. Johnson, G. S. D. King

[16]-annulene: the crystal and molecular structure. *Journal of the Chemical Society, Sect. B*, pp. 643-49.

With J. B. Faught, T. Moeller

Crystal and molecular structure of trimeric phosphonitrilic isothiocyanate. *Inorganic Chemistry*, 9:1656-60.

With M. J. Sabacky, S. M. Johnson,
J. C. Martin

Steric effects in o-substituted triarylmethanes.

Journal of the American Chemical Society, 91:7542-44.

With S. M. Johnson, J. Herrin, S. J. Liu

Crystal structure of a barium complex of antibiotic, X537-A, Ba(C₂₄H₃₃O₈)₂ · H₂O. *Chemical Communications*, pp. 72-73.

The crystal and molecular structure of the barium salt of the antibiotic containing a high proportion of oxygen. *Journal of the American Chemical Society*, 92:4428-35.

With G. N. Schrauzer, H. N. Rabinowitz,
J. K. Frank

Stabilization of a thioketocarbene through π-complex formation: synthesis and structure of trihapto-1, 2-diphenylthiokecarbene-hexacarbonyl-iron. *Ibid.*, pp. 212-14.

With R. J. S. Beer, D. Frew, P. L. Johnson

The molecular structure of an isothiathiophthen system. *Chemical Communications*, pp. 154-55.

With K. I. G. Reid

Some structural observations on molecules with short S—O intramolecular contacts. *Ibid.*, pp. 329-30.

The crystal structure of a dimer of cyclooctatetraene. *Ibid.*, pp. 1106-7.

With D. E. Arrington, T. Moeller

The crystal and molecular structure of monophenylsulphanuric fluoride trimer. *Journal of the Chemical Society, Sect. A*, pp. 2627-31.

With J. S. McKechnie, L. Kubina

The crystal and molecular structure of 6α-bromo-17β-hydroxy-17α-methyl-4-oxa-5α-androstan-3-one. *Ibid.*, Sect. B, pp. 1476-82.

With S. M. Johnson, C. A. Maier

The crystal and molecular structure of 1-acetyl-1-thionia-5-thiacyclooctane perchlorate. *Ibid.*, pp. 1603-8.

With R. Gitany, N. Acton, T. J. Katz

The structure of bis (as-indacenylium). *Tetrahedron Letters*, 31:2723-26.

With G. N. Schrauzer, P. Glockner,
K. I. G. Reid

Octahaptobicyclo [4.2.2] deca-2, 4, 7, 9-tetraendiron hexacarbonyl. The structure of the reaction product of Fe₂(CO)₉ with bullvalene. *Journal of the American Chemical Society*, 92:4479-80.

With J. D. McCullough, Jr., D. Y. Curtin,
L. L. Miller, D. B. Pendergrass, Jr.

The loss of solvent from a molecular crystal solvate. Phenylazotribenzoylmethane hemietherate. *Molecular Crystals and Liquid Crystals*, 11:407-12.

With D. A. Dieterich, D. Y. Curtin

Crystal structure of nitrosobenzene dimer. cis-azobenzene dioxide. *Chemical Communications*, pp. 1710-11.

PIRKLE, WILLIAM H., Associate Professor

Articles

Comments on the use of nuclear magnetic resonance spectroscopy to assign absolute configurations of diastereomeric salts. *Chemical Communications*, pp. 1525-26.

With W. V. Turner, H. Seto

Skeletal rearrangements of 2-pyrones involving 1,5-sigmatropic shifts. *Journal of the American Chemical Society*, 92:6984-85.

With J. C. Stickler

Nitrogen-backed polymers, I. *Ibid.*, pp. 7497-99.

RINEHART, KENNETH L., JR., Professor

Articles

With W. T. Shier, D. Gottlieb

Preparation of two new aminoglycoside antibiotics. *Journal of Antibiotics*, 23:51-53.

With D. C. Schlegel, C. D. Tipton

One-step monobromination of resorcinol ethers. *Journal of Organic Chemistry*, 35:849.

With C. D. Tipton

Lomofungin, I. Degradative studies of a new phenazine antibiotic. *Journal of the American Chemical Society*, 92:1425-26.

With K. S. Patel, J. C. Bailer, Jr.

Mass spectral studies of some β -diketones and their beryllium complexes. *Organic Mass Spectrometry*, 3:1239-54.

Mass spectral studies of Schiff's bases and their metal complexes. *Ibid.*, 4:441-51.

With R. C. Pandey

Polyene antibiotics, V. Characterization of components of the filipin complex by mass spectrometry. *Journal of Antibiotics*, 23:414-17.

With E. J. Hessler, H. K. Jahnke, J. H. Robertson, K. Tsuji, W. T. Shier

Neomycins D, E and F: identify with paramamine, paromomycin I and paromomycin II. *Ibid.*, pp. 464-66.

With G. Leadbetter, R. A. Larson, R. M. Forbis
Nybomycin, III: A revised structure. *Journal of the American Chemical Society*, 92:6994.

With R. M. Forbis

Nybomycin, IV. Total synthesis of deoxynybomycin. *Ibid.*, p. 6995.

With K. Sasaki, G. Slomp, M. F. Grostic, E. C. Olson

Geldanamycin, I: Structure assignment. *Ibid.*, pp. 7591-93.

With D. Cartwright, R. A. Gardiner

Synthesis of slaframine. *Ibid.*, pp. 7615-17.

SCHMIDT, PAUL G., Assistant Professor

Articles

With B. D. Sykes, G. R. Stark

Aspartate transcarbamylase. A study by transient NMR of the binding of succinate to the native enzyme and its catalytic subunit. *Journal of Biological Chemistry*, 245, 5:1180-89.

SECRET, DONALD H., Associate Professor

Articles

On-line use of computers in chemistry. In *Computers and their role in the physical sciences*, ed. by Taug and Fernbach, Gordon and Breach, New York, pp. 437-63.

With M. D. Gordon

Helium-atom-hydrogen-molecule potential surface employing the LCA-MO-SCF and CI methods. *Journal of Chemical Physics*, 52, 1:120-31.

SMITH, STANLEY G., Associate Professor

The use of computers in the teaching of organic chemistry. *Journal of Chemical Education*, 47:608-11.

Solvolysis of trityl derivatives: ethanolysis of tri-*p*-tolymethyl tetrafluoroborate and benzoate. *Tetrahedron Letters*, 52:4547-49.

With J. Billet

Comparison of the reactivity of methylmagnesium chloride and dimethyl-magnesium toward 4-methylmercaptoacetophenone in diethyl ether. *Ibid.*, 51:4467-70.

With D. A. Simpson, P. Beak

Intermolecular methyl transfers in the methylation of anisole. *Journal of the American Chemical Society*, 92:1071-73.

With G. Biale, A. J. Parker, I. P. R. Stevens, S. Winstein

The E2C mechanism in elimination reactions. The absence of an extreme form of merged mechanism for elimination and substitution. A comparison of Saytsoff vs. Hofmann tendencies and of anti vs. syn eliminations. *Ibid.*, pp. 115-22.

With S. E. Rudolph

Products of the reaction of methylmagnesium bromide with benzophenone in diethyl ether. *Chemical Communications*, pp. 1428-29.

Reviews

Experiments in physical organic chemistry, by N. S. Isaacs. *Journal of Chemical Education*, 47:A132.

SNYDER, HAROLD R., Research Professor and Associate Dean of Graduate College

Articles

With K. E. Whitaker

A preparation of 9,10-dicyanoanthracene and 9,10-dicyanophenanthrene by cyanation of the respective 9-cyanoarenes. *Journal of Organic Chemistry*, 35:30-32.

STUCKY, GALEN D., Associate Professor

Articles

With J. L. Atwood

The stereochemistry of polynuclear compounds of the main group elements, XII: The preparation and structure of the ethyleniminodimethylaluminum trimer. *Journal of the American Chemical Society*, 92:285-88.

With S. Patterman, I. L. Karle

π -Complexation in ion-pair bonding: the structure of benzyl lithium triethylenediamine, $C_6H_5CH_2-Li^+N(C_2H_5)_3N$. *Ibid.*, pp. 1150-57.

With J. Toney

The structural properties of dimethylmagnesiumdiquinclidine. *Journal of Organometallic Chemistry*, 22:241-49.

With D. J. Brauer

π -Complexation in ion pair bonding tetra(1,4-epoxybutane)-disodium(I) tetramethyl-bis(1,4-dihydro-1,4-naphthalene dialuminate [$Na(C_8H_8O)_2$] $^+$ -[Al(CH₃)₂C₁₀H₈] $^+$), a novel organoaluminate structure. *Journal of the American Chemical Society*, 92:3956-63.

With J. S. Swanson

New evidence supporting the formation of a diaziridinium cation in the hydrolytic fission of diaziridines. *Journal of Heterocyclic Chemistry*, 7:667-70.

With F. Ross

The geometry and stabilization of the $Ni_2Cl_8^{4-}$ anion in $HN(C_2H_5)_3NCH_3NiCl_4$. *Journal of the American Chemical Society*, 92:4538-44.

With G. L. McPherson, T. J. Kistenmacher

Single crystal paramagnetic resonance studies of V(II), Mn(II), and Ni(II) in $CsMgCl_3$ and the crystal structure of $CsMgCl_3$. *Journal of Chemical Physics*, 52:815-24.

With J. Smith, B. C. Gerstein, S. H. Liu

Linear antiferromagnetism in spin 1 systems, $CsNiCl_3$. *Ibid.*, 53:418-22.

With T. J. Kistenmacher

The structure of N-Methyl-5,5-Dimethyloxazolidine-2,4-Dione. *Acta Crystallographica*, B26:1445-50.

TEIPEL, JOHN W., Assistant Professor

Articles

With D. E. Koshland, Jr.

The effect of NAD⁺ on the catalytic efficiency of glycerolaldehyde-3-phosphate from rabbit muscle. *Biochimica et Biophysica Acta*, 198, 2:183-91.

YARDLEY, JAMES T., III, Assistant Professor

Articles

Vibrational energy transfer in CO-He lasers. *Journal of Chemical Physics*, 52, 8: 3983-89.

Laser action in highly-excited vibrational levels of CO. *Journal of Molecular Spectroscopy*, 35, 2:314-24.

With D. P. Akiit

Far infrared laser emission in gas discharges containing boron trihalides. *Journal of Quantum Electronics*, QE-6, 2:113-16.

With M. N. Fertig, C. B. Moore

Vibrational deactivation in methane mixtures. *Journal of Chemical Physics*, 52, 3:1450-53.

With P. B. Sackett

Radiative lifetime of nitrogen dioxide using a tunable organic dye laser. *Chemical Physics Letters*, 6, 4:323-35.

DOCTORAL DISSERTATIONS

Albright, Fred R. (G. J. Schroepfer, Jr., Adviser), A new substrate for fumarase, L-trans-2,3-epoxysuccinate.

Andrist, Anson H. (J. E. Baldwin, Adviser), Bicyclo[2.1.0]pent-2-ene: structure, molecular properties and mechanism of thermal isomerization.

Baucom, Everett, I. (R. S. Drago, Adviser), The stabilization of unusual oxidation states of nickel with oxime ligands.

Bertram, Edward F. (R. M. Coates, Adviser), Biogenetic-like interconversions of tetra- and pentacarboxylic diterpenoids.

Bilson, Elizabeth J. (P. E. Yankwich, Adviser), Studies in chemical kinetics.

Bloch, Daniel R. (J. C. Martin, Adviser), The dehydrocyclopentadienyl anion: a new aryne.

Burlingame, Terry G. (W. H. Pirkle, Adviser), NMR spectroscopy of enantiomers in chiral solvents: the relationship between solvate physical properties and enantiomericspectral nonequivalence in model amine-alcohol systems.

Davenport, Diane (G. Weber, Adviser), The binding of heme and some fluorescent dyes to apohemoglobin.

Dixon, Daniel B. (N. J. Leonard, Adviser), Abnormal ring expansion and ring opening reactions of polycyclic aziridinium salts.

Engelmann, John H. (D. Y. Curtin, Adviser), 1,3-acyl migrations in ⁹(5H)-phenanthridinone and similar systems.

Fogel, Mildred M. (J. W. Hastings, Adviser), The relationship between soluble and particulate bioluminescence in extracts of the marine dinoflagellate *Gonyaulax polyedra*.

Gardiner, Robert A. (K. L. Rinehart, Adviser), Studies on the alkaloid slaframine and synthesis of model aminoindolizidines.

Garrett, Michael B. (J. G. Kay, Adviser), Flash heating as a technique for high temperature spectroscopy.

Gebauer, Peter A. (D. E. Applequist, Adviser), Identification of the dimer and dihydrodimer of 3,3,6,6-tetramethylcyclohexyne.

Hecht, Sidney M. (N. J. Leonard, Adviser), The basis and scope of cytokinin activity.

Hirschberg, Carlos B. (H. E. Carter and G. J. Schroepfer, Advisers), Structural and metabolic studies of sphingolipids.

Horlick, Gary (H. V. Malmstadt, Adviser), Basic and practical considerations in utilizing a fourier transform spectrometer for spectral measurements.

House, James E., Jr. (J. C. Bailar, Jr., Adviser), Kinetic studies on solid state reactions of chromium complexes.

Hsu, Ming-Chu (R. W. Woody and V. Bloomfield, Advisers), Optical activity of heme proteins.

Hsu, Shih L. (W. H. Flygare, Adviser), Barrier studies by microwave spectroscopy.

Hudson, Earl N. (G. Weber, Adviser), Synthesis, characterization, and application of some covalent fluorescent probes for proteins.

Jackson, Elliot D. (H. V. Malmstadt, Adviser), New approaches to precision spectrophotometry.

Johnson, Edward F. (R. M. Coates, Adviser), Kinetic studies involving potentially aromatic dihydrobenzazocine anions.

Jonas, Ana M., (G. Weber, Adviser), Physicochemical studies on the tertiary structure of bovine serum albumin.

Kasowski, Walter J. (J. C. Bailar, Jr., Adviser), Coordination characteristics of the ligands 1,1,1-tris(dimethylaminomethyl)ethane and 1,1,1-tris(monomethylaminomethyl)ethane.

Kennedy, Frank S. (J. M. Wood, Adviser), Physical and biological studies with free and protein bound vitamin B₁₂.

Kirkpatrick, James W. (H. V. Malmstadt, Adviser), Emission spectrometric determination of the nitrogen isotope ratio.

Kistenmacher, Thomas J. (G. D. Stucky, Adviser), Structural and spectroscopic studies of chloride complexes from non-aqueous solvents.

Klug, James H. (D. E. Applequist, Adviser), Stabilities of cycloalkyl and 1-methylcycloalkyl radicals from quantitative decarbonylation studies.

Koeltzow, Donald E. (H. E. Conrad, Adviser), Structural studies on the lipopolysaccharide of *Aerobacter aerogenes* strain NCTC 243.

Krueger, Spencer M. (J. E. Baldwin, Adviser), Conformational effects on stereoselective photochemical isomerizations.

Kutal, Charles R. (J. C. Bailar, Jr., Adviser), Reactions of coordination compounds in the solid state: the racemization of (+)-[Co(en)₃]X₃ · nH₂O complexes.

Lauver, Richard W. (T. L. Brown, Adviser), Correlation function analysis of infrared band shapes of metal carbonyls.

Li, Kuang-pang (H. V. Malmstadt, Adviser), Fundamental considerations of the photon counting technique and its application in a comparison of flame spectrophotometric techniques.

Lin, Fang-Maw (R. L. Belford, Adviser), Conformation and stability of sulfur rings, cyclododecalsulfur.

McCullough, James D., Jr. (D. Y. Curtin and I. C. Paul, Advisers), The solid state Beckmann rearrangement of benzophenone oxime 0-picryl ethers and the crystal structures of the *syn*- and *anti*-p-bromobenzophenone oxime 0-picryl ethers.

McDaniel, James A. (J. C. Bailar, Jr., Adviser), An investigation of complexes similar

- to and including those in the nickel-tin plating bath.
- Olson, Charles D. (R. L. Belford, Adviser), Single crystal polarized absorption spectra of some copper chelates.
- Payet, Charles R. (P. Beak, Adviser), The search for photochemical intramolecular interactions of imines with other functional groups.
- Peascoe, Warren J. (D. E. Applequist, Adviser), Relative rates of metalation by alkyl-lithium compounds.
- Peavy, Richard E. (J. E. Baldwin, Adviser), Five-membered carbocycles through (3 + 2)-cycloaddition reactions.
- Perry, William D. (R. S. Drago, Adviser), Nuclear magnetic resonance studies of paramagnetic transition metal ion complexes, I: Temperature dependence of the isotropic shift of paramagnetic transition metal ion complexes; II: Study of the ligand exchange reaction of octahedral cobalt(II) by nuclear magnetic resonance techniques.
- Queener, Sherry F. (I. C. Gunsalus, Adviser), Regulation of the anthranilate synthase subunits in *Pseudomonas putida*.
- Sanders, Thomas G. (G. J. Schroepfer, Adviser), The purification, properties and embryonic regulation of pancreatic amylolytic and proteolytic enzymes of the rat.
- Schaffer, Sheldon A. (N. J. Leonard, Adviser), The synthesis and studies of some adenine nucleoside and nucleotide analogs.
- Schlegel, Donald C. (K. Rinehart, Adviser), I: Synthetic and degradative studies of two streptovaricin degradation products, streptovarone and dapmavarone; II: Synthetic and spectral studies of highly substituted 1,4-naphthoquinones.
- Shermer, William D. (J. E. Baldwin, Adviser), A symmetrical carbonyl ylid generated from acetone and 2-diazopropane.
- Shier, Wayne T. (K. L. Rinehart, Adviser), The hybrymycins.
- DeSimone, Richard E. (R. S. Drago, Adviser), Magnetic resonance studies of low-spin d^6 transition metal complexes.
- Simpson, David A. (P. Beak, Adviser), Product studies in the reactions of chloroformates with silver fluoro salts.
- Smith, John L. S. (R. S. Juvet, Adviser), Analysis of polymeric materials by photolysis-gas chromatography.
- So, Hyunsoo (R. L. Belford, Adviser), I: Electron spin resonance study of quadrupole coupling in copper(II) complexes; II: Triplet state ESR spectra of binuclear vanadyl(IV) tartrates.
- Spencer, Richard D. (G. Weber, Adviser), Fluorescence lifetimes: theory, instrumentation, and application of nanosecond fluorometry.
- Thatcher, John (T. L. Brown, Adviser), Coordination chemistry of the AZO group.
- Thompson, Dixon A. R. (D. Y. Curtin, Adviser), 1,3 (N,N) acyl migrations of N-acyl-N-arylbenzamidines.
- Thornburg, Katherine A. (W. H. Pirkle, Adviser), A cycloeliminative approach to the synthesis of optically active allenes.
- Toms, Hazel A. (J. M. Wood, Adviser), The bacterial degradation of lignin model compounds.
- Vanarendonk, Arthur M. (I. C. Gunsalus, Adviser), Interactions of isocyanides and cytochrome $P-450^{cam}$.
- Vogel, Glenn C. (R. S. Drago, Adviser), Lewis acid-base interactions I: The extension and limitations of the frequency shift-enthalpy correlations of hydrogen bonding systems; II: Extension and refinement of the E and C correlation.
- Walter, Marc (A. M. Hartley, Adviser), An electrochemical study of nitroferrocene.
- Watson, Richard N. (P. Beak, Adviser), I: The mechanism of hydrogen-deuterium exchange of 1-methyl-4-pyrimidone and related compounds; II: Synthetic approaches to a model compound suitable for field effect studies.
- Yeoman, Lynn C. (L. P. Hager, Adviser), Active site labeling studies on heme proteins.
- Young, Chung-Chang (H. A. Laitinen, Adviser), Anodic deposition and cathodic stripping of iron in acetate medium.
- Zink, Jeffrey I. (R. S. Drago, Adviser), Magnetic resonance studies of inorganic compounds.

CHILDREN'S RESEARCH CENTER

CAMPIONE, JOSEPH C., Associate Professor

Articles

Optional intradimensional and extradimensional shifts in children as a function of age. *Journal of Experimental Psychology*, 84:296-300.

With D. J. Dickerson, J. F. Wagner

Discrimination shift performance of kindergarten children as a function of variation of the irrelevant shift dimension. *Developmental Psychology*, 3:229-35.

With D. Zeaman, M. Allen

Opposing effects of redundancy in retention of a verbal discrimination. *Journal of Verbal Learning and Verbal Behavior*, 9:607-13.

JOHNSTON, PATRICIA V., Research Assistant Professor

Books

With B. I. Roots

Nerve membranes: a study of biological chemical aspects of neuron-glia relationships. Pergamon Press, New York.

Articles

With B. I. Roots

Neuronal and glial perikarya preparations: an appraisal of present methods. In *International review of cytology*, vol. 29, Academic Press, New York, pp. 265-80.

LOCKE, JOHN L., Research Assistant Professor

Articles

Acoustic vigilance behavior in four-year-olds. *Psychonomic Science*, 21:111-12.

Phonetic analysis of pronounceability. *Psychological Reports*, 27:583-87.

Short-term memory encoding strategies of the deaf. *Psychonomic Science*, 12:233-34.

Subvocal speech and speech. *Asha*, 12:7-14.

The value of repetition in articulation learning. *International Review of Applied Linguistics in Language Teaching*, 8:147-53.

With J. Hoglund

Note on servo theory in children's phonetic learning. *Perceptual and Motor Skills*, 31:417-18.

With F. S. Fehr

Subvocal rehearsal as a form of speech. *Journal of Verbal Learning and Verbal Behavior*, 9:495-98.

Young children's use of the speech code in a recall task. *Journal of Experimental Child Psychology*, 10:367-73.

SCOTT, KEITH G., Research Associate
Professor

Articles

A multiple-choice audio visual discrimination apparatus with quick interchange display and response panels. *Journal of Experimental Child Psychology*, 9:43-50.

SCOTT, MARCIA S., Research Associate

Articles

Transfer in nursery school children between two relational tasks. *Developmental Psychology*, 3:145.

SPRAGUE, ROBERT L., Research Associate
Professor and Director of Children's
Research Center

Articles

Principles of behavior modification, by Bandura. *American Journal of Mental Deficiency*, 75:113-15.

The token economy: a motivational system for therapy and rehabilitation, by Ayllon and Azrin. *Ibid.*, 74:451-52.

With J. S. Werry

Hyperactivity. In *Symptoms of psychopathology*, ed. by C. C. Costello, Wiley, New York, pp. 397-417.

STEINMAN, WARREN M., Research
Assistant Professor

Articles

Generalized imitation and the discrimination hypothesis. *Journal of Experimental Child Psychology*, 10:79-99.

Is free play free? *Educational Product Report*, 3:6-8.

The social control of generalized imitation. *Journal of Applied Behavior Analysis*, 1970:25-33.

WERRY, JOHN S., Research Associate
Professor

Articles

With H. T. Davenport

The effect of anesthesia, surgery and hospitalization on the behavior of children. *American Journal of Orthopsychiatry*, 40: 806-24.

With R. L. Sprague

Hyperactivity. In *Symptoms of psychopathology*, ed. by C. G. Costello, Wiley, New York, pp. 397-417.

Methodology of psychopharmacological studies with the retarded. In *International review of research in mental retardation*, vol. 5, ed. by N. R. Ellis, Academic Press, New York, pp. 148-208.

With R. L. Sprague, G. Weiss, K. Munde

Methylphenidate and thioridazine: learning, reaction time, activity and classroom behavior in emotionally disturbed children. *American Journal of Orthopsychiatry*, 40: 615-28.

CIVIL ENGINEERING, INCLUDING
ENVIRONMENTAL ENGINEERING

AMIN, MOHAMMAD, Associate Professor

Articles

With A. H.-S. Ang, H.-S. Tsao

Significance of nonstationarity of earthquake

motions. *Proceedings of Fourth World Conference on Earthquake Engineering*, Santiago, Chile, 1, A-1:97-113. 1969.

ANG, ALFREDO H.-S., Professor

Articles

Extended reliability basis of structural design under uncertainties. *Annals of Reliability and Maintainability*, 9:642-49.

With M. Amin, H.-S. Tsao

Significance of nonstationarity of earthquake motions. *Proceedings of Fourth World Conference on Earthquake Engineering*, Santiago, Chile, 1, A-1:97-113. 1969.

BAERWALD, JOHN E., Professor

Articles

Accomplishments during four decades of professional traffic engineering. *World Highways*, 21, 12:77-80.

Are we really communicating? *Traffic Engineering*, 40, 12:6.

The decision-making role of the traffic engineer. *Ibid.*, 10:22-24.

National highway needs. *Ibid.*, 10:46-48.

The interdisciplinary development of ambulance design criteria. *Highway Research Record*, 332:54-61.

Recommended ambulance design criteria in the United States of America. In *International seminar on design criteria for the emergency ambulance*, The Medical Commission on Accident Prevention, September, 1969, pp. 12-13.

Professionalism in the 70's. *Technical Papers* — 23rd Annual Meeting, Western Section, Institute of Traffic Engineers, July 19-22, 1970, 1:IC-1-IC-5.

BARENBERG, ERNEST J., Associate
Professor

Articles

Evaluation of remolded field samples of lime-cement fly ash aggregate mixtures. *Highway Research Record*, 315:112-21.

The role of theoretical analyses in the evaluation of paving materials. In *Proceedings of the second inter-American conference on materials technology*, Mexico City, pp. 100-112.

BERGER, RICHARD L., Associate Professor

Articles

With D. S. Cahn, J. D. McGregor

Calcium hydroxide as a binder in portland cement paste. *Journal of the American Ceramic Society*, 53, 1:57-58.

BIRKEMOE, PETER C., Assistant Professor

Articles

With D. C. Herrschaft

Bolted galvanized bridges — engineering acceptance near. *Civil Engineering*, ASCE, 40, 4:42-46.

BROOKS, ALBERT C., Instructor

Articles

With S. J. Fenves

A computer-aided construction management system. *Construction Review*, 16, 7:4-7.

CHAUDHURI, MALAY, Assistant Professor

Articles

With R. S. Engelbrecht

Removal of viruses from water by chemical coagulation and flocculation. *Journal American Water Works Association*, 62, 9:563-67.

CHILTON, ARTHUR B., Professor

See Nuclear Engineering.

CHOW, VEN TE, Professor

Books Edited

Advances in hydrosceince, vol. 6. Academic Press Inc., New York and London, 259 pp.

The progress of hydrology. In *Proceedings of the first international seminar for hydrology*, 3 vols., Department of Civil Engineering, University of Illinois, Urbana, 1295 pp.

Articles

Systems approaches in hydrology and water resources. *Ibid.*, 1:490-509.

Study of watershed hydrology by the watershed experimentation system. *Nature and Resources*, 6, 1:12-14.

With S. J. Kareliotis

Analysis of stochastic hydrologic systems. *Water Resources Research*, 6, 6:1569-82.

Bulletins and Technical Reports

A report on international seminar for hydrology professors, July 13-25, 1969, at University of Illinois, Urbana, 58 pp.

CORDING, EDWARD J., Assistant Professor

Articles

With D. U. Deere

Interrelationship of soil mechanics, rock mechanics, and engineering geology. In *Proceedings of the eighth annual engineering geology and soils engineering symposium*, Idaho State University, Pocatello, pp. 295-313.

DAVISSON, MELVIN T., Associate Professor

Articles

BRD vibratory driving formula. *Foundation Facts*, 6, 1:9-11.

With M. Alizadeh

Lateral load tests on piles — Arkansas River project. *Proceedings of the American Society of Civil Engineers*, 96, *Journal of Soil Mechanics and Foundation Engineering*, SM5:1583-1604.

With J. R. Salley

Model study of laterally loaded piles. *Ibid.*, 96, SM5:1605-27.

DEERE, DON U., Professor

Articles

Indexing rock for machine tunneling. In *Rapid excavation problems and progress*, by Yardley, Society of Mining Engineers of the American Institute of Mining, Metallurgical and Petroleum Engineers, Inc., New York, pp. 32-38.

Discussion. Theme 1, Engineering geological considerations in the design and construction of large underground openings. In *Large permanent underground openings*, ed. by Brekke and Jorstad, Universitetsforlaget, Oslo, p. 127.

With R. L. Nordlund

Collapse of Fargo grain elevator. *Proceedings of the American Society of Civil Engineers*, *Journal of the Soil Mechanics and Foundation Division*, 96, SM2:585-607.

With E. J. Cording

Interrelationship of soil mechanics, rock mechanics, and engineering geology. In *Proceedings of the eighth annual engineering geology and soils engineering symposium*, Idaho State University, Pocatello, pp. 295-313.

With R. B. Peck, J. E. Monsees, H. W. Parker, B. Schmidt

Design of tunnel support systems. *Symposium: Rapid Excavation, Highway Research Record*, 339:26-33.

DEMPSEY, BARRY J., Assistant Professor

Articles

With M. R. Thompson

Quantitative characterization of cyclic freezing and thawing in stabilized pavement materials. *Highway Research Record*, 304: 38-44.

ENGELBRECHT, RICHARD S., Professor

Articles

With J. H. Austin, K. Y. Baliga

Occurrence of nematodes and benthic deposits. *Water Research*, 3:979-93.

With M. W. Hall

Formal discussion on "The pathways of phosphorus in biological treatment" by Jenkins and Menar and "Nutrient removal from sewage effluent by algal activity" by Hemens, Mason and Stander. In *Advances in water pollution*, Fourth International Conference on Water Pollution Research, Prague, Czechoslovakia, Pergamon Press, pp. 691-93.

With M. Chaudhuri

Removal of viruses from water by chemical coagulation and flocculation. *Journal American Water Works Association*, 62, 9:563-67.

EUBANKS, ROBERT A., Professor

Articles

Effect of axial torque on rotor response: an experimental investigation. *Transactions of the American Society of Mechanical Engineers*, 93: 70 WA/DE-14.

EWING, BENJAMIN B., Professor

Articles

Probabilistic consideration in water quality management. *Water and Waste Engineering*, 7, 10:50-53.

With D. D. Meredith

Systems approach to the evaluation of benefits from improved Great Lakes water quality. *Proceedings Twelfth Conference Great Lakes Research*, 12:843-70. 1969.

FAIG, WOLFGANG, Assistant Professor

Articles

Determination of the shape of thin soap membranes by means of photogrammetry. *Proceedings of the 36th Annual Meeting, American Society of Photogrammetry*, 1970:220-46.

FENVES, STEVEN J., Professor

Articles

With A. C. Brooks

A computer-aided construction management system. *Construction Review*, 16, 7:4-7.

With E. L. Murphree, Jr.

A technique for generating interpretive translators for problem-oriented languages. *BIT, The Journal of Information Processing*, 10, 10:310-23.

With N. M. Newmark

Seismic forces and overturning moments in buildings, towers, and chimneys. *Proceedings of Fourth World Conference on Earthquake Engineering*, Santiago, 3, B5:1-12.

With G. A. Morris

Elastic-plastic analysis of frameworks. *Proceedings of the American Society of Civil Engineers, Journal of the Structural Division*, 96, ST5:931-46.

GAMBLE, WILLIAM L., Associate Professor

Articles

Discussion. Proposed revision of ACI-318-63: building code requirements for reinforced concrete. *Journal of the American Concrete Institute*, 67, 9:700.

Field investigation of prestressed concrete I-beam bridges. In *Proceedings of the 11th annual bridge engineering conference*, Colorado State University, pp. 129-59.

GURFINKEL, GERMAN R., Associate Professor

Articles

Welded truss replaces existing wood column. In *Modern welded structures*, vol. 3, ed. by R. A. Wilson, The James F. Lincoln Arc Welding Foundation, Cleveland, pp. H 34-35.

Analysis of footings subjected to biaxial bending. *Proceedings of the American Society of Civil Engineers, Journal of the Structural Division*, 96, ST6:1049-59.

Design of wood columns for flexural and axial loading. *Ibid.*, ST11:2389-2408.

Multistory prefabricated columns. *Proceedings of the American Society of Civil Engineers, Journal of the Construction Division*, 96, C02:137-47.

School building features polygon shape. *Civil Engineering, ASCE*, 40, 12:31-34.

Analysis of shear walls using standard computer programs: discussion. *Journal of the American Concrete Institute*, 67, 6:477.

Discussion. Flexural stresses in rectangular reinforced concrete curved members. *Journal of the American Concrete Institute*, 67, 9:751.

With C. P. Siess

Closure. Longitudinally restrained reinforced concrete beams. *Proceedings of the American Society of Civil Engineers, Journal of the Structural Division*, 96, ST1:126.

HALL, WILLIAM J., Professor

Articles

With N. M. Newmark

Seismic design criteria for nuclear reactor facilities. *Proceedings of Fourth World Conference on Earthquake Engineering*, Santiago, 2, B4:37-50.

HENDRON, ALFRED J., JR., Professor

Articles

With G. Mesri, J. C. Gamble, G. Way

Compressibility characteristics of shales measured by laboratory and *in situ* tests. *American Society for Testing and Materials, Special Technical Publication* 477, "Determination of the *in situ* modulus of deformation of rock," pp. 137-53.

With J. C. Gamble, G. Way

Foundation exploration for Interstate 280 bridge over Mississippi River near Rock Island, Illinois. In *Proceedings of the twentieth annual highway geology symposium*, University of Illinois Engineering Experiment Station, Urbana, 126 pp.

HERRIN, MORELAND, Professor

Articles

With M. O. Khalifa

The behavior of asphaltic concrete con-

structed with large-size aggregates. *Proceedings of the Association of Asphalt Paving Technologists*, 39:345-57.

HILSDORF, HUBERT K., Professor

Articles

Prediction of shrinkage and creep coefficients for structural concrete. In *U.S.-Japan seminar on research on basic properties of concrete*, American Concrete Institute, Detroit, pp. 24-25.

With J. L. Lott

Revibration of retarded concrete for continuing bridge decks. *National Cooperative Highway Research Programs*, 106:67.

HOLLEY, EDWARD R., Associate Professor

Articles

Turbulence measurements near the free surface of an open channel flow. *Water Resources Research*, 6, 3:960-63.

With D. R. F. Harleman, H. B. Fischer

Dispersion in homogeneous estuary flow. *Proceedings of the American Society of Civil Engineers, Journal of the Hydraulics Division*, 96, HY8:1691-1709.

HOLZER, SIEGRIED M., Assistant Professor

Articles

Stability of columns with transient loads. *Proceedings of the American Society of Civil Engineers, Journal of the Engineering Mechanics Division*, 96, EM6:913-30.

Response bounds for columns with transient loads. *Transactions of the American Society of Mechanical Engineers*, 93:70-WA/APM-32.

IRELAND, HERBERT O., Professor

Articles

Soil stabilization. *Proceedings of the American Railway Engineering Association*, 71, 628: 846-55.

With O. Moretto, M. Vargas

The dynamic penetration test: a standard that is not standardized. *Geotechnique*, 20, 2: 185-92.

KARARA, HOUSSAM M., Professor

Articles

New trends in close-range photogrammetry. *Proceedings of the 1971 symposium on close-range photogrammetry*, American Society of Photogrammetry, Falls Church, Virginia, pp. 231-38.

With Y. I. Abdel-Aziz

Direct linear transformation from comparator coordinates into object space coordinates in close-range photogrammetry. *Ibid.*, pp. 1-18.

KARELIOTIS, SOTIRIOS J., Visiting Assistant Professor

Articles

With V. T. Chow

Analysis of stochastic hydrologic systems. *Water Resources Research*, 6, 6:1569-82.

KHACHATURIAN, NARBEGY, Professor

Articles

Basic concepts in structural optimization. In *An introduction to structural optimization*, Solid Mechanics Division, University of Waterloo, Ontario, pp. 1-18.

KESLER, CLYDE E., Professor

See Theoretical and Applied Mechanics.

LAWRENCE, FREDERICK V., JR., Assistant Professor

Articles

With J. B. Radzimiński

Fatigue of high-yield strength steel weldments. *Welding Journal*, 49, 8:365s-75s.

Fatigue crack initiation and propagation in high-yield-strength steel weld metal. *Ibid.*, 10:445s-52s.

With R. C. Jones

The formation of cell structures in fatigued iron crystals. *Metallurgy Transactions*, 1: 367-76.

LELAND, HARRY V., Assistant Professor

Bulletins and Technical Reports

With N. F. Shimp, W. A. White

Distribution of major, minor and trace constituents in unconsolidated sediments from southern Lake Michigan. *Illinois Geological Survey Environmental Geology Note* 32, 19 pp.

With D. L. Gross, J. A. Lineback,

W. A. White, N. J. Ayer, C. Collinson

Preliminary stratigraphy of unconsolidated sediments from the southwestern part of Lake Michigan. *Ibid.*, Note 30, 20 pp.

MAREK, CHARLES R., Assistant Professor

Articles

Estimation of the tensile strength of asphalt cements in thin films. *Journal of Materials, American Society for Testing and Materials*, 5, 1:3-17.

MAXWELL, W. HALL C., Associate

Professor

Articles

Flux development region in submerged jets. *Proceedings of the American Society of Civil Engineers, Journal of the Engineering Mechanics Division*, 96, EM6:1061-79.

With J. R. Weggel

Numerical model for wave pressure distribution. *Proceedings of the American Society of Civil Engineers, Journal of Waterways, Harbors and Coastal Engineering Division*, 96, WW3:623-42.

Experimental study of breaking wave pressures. *Proceedings Offshore Technology Conference*, Dallas, Texas, 11:175-89.

MEREDITH, DALE D., Assistant Professor

Articles

Modeling of the Great Lakes water systems. *Water Resources Bulletin, Journal American Water Resources Association*, 6, 1:55-64.

With B. B. Ewing

Systems approach to the evaluation of benefits from improved Great Lakes water quality. *Proceedings Twelfth Conference Great Lakes Research*, 12:843-70. 1969.

MESRI, GHOLAMREZA, Assistant Professor

Articles

With R. E. Olson

Shear strength of montmorillonite. *Geotechnique*, 20, 3:261-70.

Mechanisms controlling compressibility of clays. *Proceedings of the American Society of Civil Engineers, Journal of the Soil Mechanics and Foundation Division*, 96, SM6:1863-78.

With A. J. Hendron, J. C. Gamble, G. Way

Compressibility characteristics of shales measured by laboratory and in situ tests. In

American Society for Testing and Materials, Special Technical Publication 477, "Determination of the in situ modulus of deformation of rock," pp. 137-53.

MOHRAZ, BIJAN, Assistant Professor

Articles

With W. C. Schnobrich

A lumped parameter element for the analysis of axisymmetric solids of revolution. *Nuclear Engineering and Design*, 11, 2:333-44.

With W. C. Schnobrich, A. E. Gomez

Crack development in a prestressed concrete reactor vessel as determined by a lumped parameter method. *Ibid.*, pp. 286-94.

MUNSE, WILLIAM H., Professor

Articles

Fatigue behavior and fatigue design of steel structures. *J.S.S.C., Society of Steel Construction of Japan*, 6, 50:12-20. In Japanese.

The changing American fatigue design specification. *Proceedings—Fatigue of Welded Structures Conference*, The Welding Institute, Cambridge, England, 3:32-44.

Fatigue failures and fatigue specifications. In *Proceedings—15th structural engineering conference*, University of Kansas, Lawrence, 35 pp.

NEWMARK, NATHAN M., Professor and Head of Department

Articles

Structural synthesis and design. In *Earthquake engineering research*, Report to National Science Foundation by the National Academy of Engineering Committee on Earthquake Engineering Research, National Academy of Sciences, Washington, D.C., pp. 199-232. 1969.

Current trends in the seismic analysis and design of high rise structures. In *Earthquake engineering*, ed. by Robert L. Wiegell, Prentice-Hall, Inc., Englewood Cliffs, New Jersey, pp. 403-24.

Torsion in symmetrical buildings. *Proceedings of Fourth World Conference on Earthquake Engineering*, Santiago, 2, A3:19-32.

With W. J. Hall

Seismic design criteria for nuclear reactor facilities. *Ibid.*, B4:37-50.

With S. J. Fenves

Seismic forces and overturning moments in buildings, towers, and chimneys. *Ibid.*, 3, B5:1-12.

With M. A. Sozen, G. W. Housner

Implications on seismic structural design of the evaluation of damage to the Sheraton-Macuto. *Ibid.*, J2:137-50.

PAUL, STANLEY L., Assistant Professor

Articles

With W. C. Schnobrich, M. A. Sozen

Shear failures in end slabs of prestressed concrete pressure vessels. *Proceedings of gas-cooled reactor information meeting*, ed. by E. R. Taylor, U.S. Department of Commerce, Springfield, Virginia, pp. 387-402.

PEARSON, JOHN E.

See General Engineering.

PECK, RALPH B., Professor

Articles

With D. U. Deere, J. E. Monsees,

H. W. Parker, B. Schmidt

Design of tunnel support systems. *Sym-*

posium: *Rapid Excavation, Highway Research Record*, 339:26-33.

PFEFFER, JOHN T., Professor

Articles

Anaerobic lagoons— theoretical considerations. In *Proceedings of the second international symposium for waste treatment lagoons*, Kansas City, Missouri, pp. 310-20.

RADZIMINSKI, JAMES B., Assistant Professor

Articles

With F. V. Lawrence, Jr.

Fatigue of high-yield strength steel weldments. *Welding Journal*, 49, 8:365s-75s.

Fatigue crack initiation and propagation in high-yield-strength steel weld metal. *Ibid.*, 10:445s-52s.

ROBNETT, QUENTIN L., Assistant Professor

Articles

With M. R. Thompson

Concepts for developing stabilization recommendations for the soils of an area. *Highway Research Record*, 315:1-13.

Bulletins and Technical Reports

Recommendations for stabilization of Illinois soils. *University of Illinois Engineering Experiment Station Bulletin 502*, 225 pp.

SCHNOBRICH, WILLIAM C., Professor

Articles

With S. L. Paul, M. A. Sozen

Shear failures in end slabs of prestressed concrete pressure vessels. In *Proceedings of gas-cooled reactor information meeting*, ed. by E. R. Taylor, U.S. Department of Commerce, Springfield, Virginia, pp. 387-402.

With B. Mohraz, A. E. Gomez

Crack development in a prestressed concrete reactor vessel as determined by a lumped parameter method. *Nuclear Engineering and Design*, 11, 2:286-94.

With B. Mohraz

A lumped parameter element for the analysis of axisymmetric solids of revolution. *Ibid.*, pp. 333-44.

SHAFFER, LOUIS R. Professor

Articles

CPM applied by efficient planning, programming and construction orientation. *IRF Seminar Series*, February 1969:73-84.

Calendar-day CPM. *Civil Engineering*, August 1969:65-68.

Systems analysis cuts the guesswork out of project management. *Roads and Streets*, August:70-73.

SIESS, CHESTER P., Professor

Articles

With G. R. Gurfinkel

Closure. Longitudinally restrained reinforced concrete beams. *Proceedings of the American Society of Civil Engineers, Journal of the Structural Division*, 96, ST1:126.

Bulletins and Technical Reports

With J. P. Callahan, C. E. Kesler

Effect of stress on freeze-thaw durability of concrete bridge decks. *National Cooperative Highway Research Project Report 101*, Highway Research Board, National Research Council, Washington, D.C., 70 pp.

SOZEN, METE A., Professor

Articles

With T. Takeda, N. N. Nielsen

Reinforced concrete response to simulated earthquakes. *Proceedings of the American Society of Civil Engineers, Journal of the Structural Division*, 96, ST12:2556-73.

With S. Otani, P. Gulhan

Response of reinforced concrete frames subjected to simulated earthquakes. *Proceedings Japan Earthquake Engineering Society*, 3, 8:365-72.

With S. L. Paul, W. C. Schnobrich

Shear failures in end slabs of prestressed concrete pressure vessels. In *Proceedings of gas-cooled reactor information meeting*, ed. by E. R. Taylor, U.S. Department of Commerce, Springfield, Virginia, pp. 387-402.

With N. M. Newmark, G. W. Housner

Implications on seismic structural design of the evaluation of damage to the Sheraton-Macuto. *Proceedings of Fourth World Conference on Earthquake Engineering*, Santiago, 3, J2:137-50.

Bulletins and Technical Reports

Bond characteristics of prestressing strand. *University of Illinois Engineering Experiment Station Bulletin 503*, 230 pp.

STALLMEYER, JAMES E., Professor

Bulletins and Technical Reports

Welded highway bridges: an analysis of inspection factors. *National Research Council, Highway Research Board Special Report 114*, 85 pp.

STUKEL, JAMES J., Assistant Professor

See Mechanical Engineering.

TANG, WILSON H., Assistant Professor

Articles

With H. S. Shah

Statistical evaluation of load factors in structural design. *Annals of Reliability and Maintainability — 1970*, 9:650-58.

THOMPSON, MARSHALL R., Professor

Articles

Suggested method for mixture design for lime-treated soils. In *Special procedures for testing soil and rock for engineering purposes*, American Society for Testing and Materials, STP479, pp. 430-40.

Properties of lime-treated soils. In *Proceedings of 20th annual highway geology symposium*, pp. 99-126.

With Q. L. Robnett

Concepts for developing stabilization recommendations for the soils of an area. *Highway Research Record*, 315:1-13.

With B. J. Dempsey

Quantitative characterization of cyclic freezing and thawing in stabilized pavement materials. *Ibid.*, 304:38-44.

With J. L. Eades

Evaluation of quick test for lime stabilization. *Proceedings of the American Society of Civil Engineers, Journal of the Soil Mechanics and Foundations Division*, 96, SM2:795-800.

Bulletins and Technical Reports

Recommendations for stabilization of Illinois soils. *University of Illinois Engineering Experiment Station Bulletin 502*, 225 pp.

THORNBURN, THOMAS H., Professor

Articles

With T. K. Liu

Soils of Illinois and their engineering characteristics. In *Proceedings 20th annual highway geology symposium*, pp. 1-13.

Bulletins and Technical Reports

With D. J. Hagerty, T. K. Liu

Engineering soil report, Will County, Illinois. *University of Illinois Engineering Experiment Station Bulletin 501*, 195 pp.

With T. K. Liu, E. T. Misiasek

Engineering soil report, DeWitt County, Illinois. *Ibid.*, *Bulletin 505*, 103 pp.

WENZEL, HARRY G., JR., Assistant Professor

Articles

With R. J. Brungaber, T. E. Stelson

The viscosity of high expansion foam. *Journal of Materials*, American Society for Testing and Materials, 5, 2:396-412.

With B. C. Yen

Dynamic equations for spatially varied flow. *Proceedings of the American Society of Civil Engineers, Journal of the Hydraulics Division*, 96, HY3:801-4.

With M. J. Mathews

Photomicroscopic sublayer velocity measurement. *Ibid.*, HY12:2467-80.

Bulletins and Technical Reports

With R. C. T. Wang

The mechanics of a drop after striking a stagnant water layer. Water Resources Center, University of Illinois, Research Report No. 30, 140 pp.

With K. C. Chang

Microscopic open channel boundary layer velocity measurements using virtual image method. *Ibid.*, Report No. 31, 38 pp.
The effect of raindrop impact and surface roughness on sheet flow. *Ibid.*, Report No. 34, 125 pp.

Reviews

With R. C. T. Wang

Laminar and turbulent overland flow hydrographs. (Discussion.) *Proceedings of the American Society of Civil Engineers, Journal of the Hydraulics Division*, 96, HY7:1660-63.

WONG, KAM W., Assistant Professor

Articles

Fidelity of space TV. *Photogrammetric Engineering*, 36, 5:491-97.

WOODHEAD, RONALD W., Professor

Books

With J. M. Antill

Critical path methods in construction practice (second ed.), John Wiley and Sons, New York, 403 pp.

WRIGHT, RICHARD N., Professor

Articles

Interaction of bents with box girders. *Proceedings of the American Society of Civil Engineers, Journal of the Structural Division*, 96, ST6:1265-69.

YEN, BEN C., Associate Professor

Articles

Risks in hydrologic design of engineering projects. *Proceedings of the American Society of Civil Engineers, Journal of the Hydraulics Division*, 96, HY4:959-66.

With H. G. Wenzel, Jr.

Dynamic equations for steady spatially varied

flow. *Proceedings of the American Society of Civil Engineers, Journal of the Hydraulics Division*, 96, HY3:801-14.

With T. L. McGillivray

Velocity measurement with radioactive spheres. *Water Resources Research*, 6, 2: 609-13.

YOUNG, JAMES F., Assistant Professor

Articles

Effect of organic compounds on the interconversions of calcium aluminate hydrates. Hydration of monocalcium aluminate. *Cement and Concrete Research*, 1, 1:113-22.

DOCTORAL DISSERTATIONS

Benson, Raymond P. (D. U. Deere, Adviser), Rock mechanics aspects in the design of the Churchill Falls underground powerhouse, Labrador.

Ben-Zvi, Arie (V. T. Chow, Adviser), On the relationship between rainfall and surface runoff on laboratory watersheds.

Berg, William D. (M. Herrin, Adviser), An analysis of the local rural road administrative system in Illinois.

Cecil, Owen S., III (D. U. Deere, Adviser), Correlations of rock bolt-shotcrete support and rock quality parameters in Scandinavian tunnels.

Coulson, James H. (D. U. Deere, Adviser), The effects of surface roughness on the shear strength of joints in rock.

Criswell, Marvin E. (M. A. Sozen, Adviser), Strength and behavior of reinforced concrete slab-column connections subjected to static and dynamic loadings.

Garlanger, John E. (R. E. Olson, Adviser), Pore pressures in partially saturated soils.

Goel, Surendra K. (S. J. Fenves, Adviser), Computer-aided processing of structural design specifications.

Harris, John F. (A. R. Robinson, Adviser), Numerical methods for the analysis of buckling and postbuckling behavior of arch structures.

Hatfield, Frank J. (S. J. Fenves, Adviser), An information organizer for coordinating modular programs.

Heidari, Manoutchehr (V. T. Chow, Adviser), A differential dynamic programming approach to water resources systems analysis.

Higashionna, Ryokichi (W. C. Schnobrich, Adviser), Lumped-parameter analysis for shear failure in the end slab of cylindrical prestressed concrete pressure vessels.

Hofmayer, Charles H. (C. P. Siess, Adviser), Analytical study of flat plate floors with irregular column layouts.

Karelhotis, Sotirios J. (V. T. Chow, Adviser), Modeling of a stochastic watershed system.

Kassawara, Robert P. (W. J. Hall, Adviser), Earthquake response of light multiple-degree-of-freedom secondary systems by spectrum techniques.

Kohnke, Peter C. (W. C. Schnobrich, Adviser), A finite element analysis of eccentrically stiffened circular cylindrical shells.

McCutcheon, William J. (S. J. Fenves, Adviser), A general formulation for the optimum design of framed structures.

Monsees, James E. (D. U. Deere, Adviser), Design of support systems for tunnels in rock.

Neubauer, Charles H., Jr. (M. R. Thompson, Adviser), The use of lime-soil stabilization as a construction expedient.

Ottsen, Henning (W. H. Munse, Adviser), Three-dimensional photoelastic investigation of simulated weld discontinuities.

Painter, William T. (R. E. Olson, Adviser), Some engineering properties of kaolinite slurries.

Parola, Jerry F. (M. T. Davisson, Adviser), Mechanics of impact pile driving

Pazwash, Hormoz (V. T. Chow, Adviser), Drag forces on bodies moving through aqueous clay suspensions.

Phillips, Monte L. (T. H. Thornburn, Adviser), Quantitative differentiation of soil association areas using aerial photographs.

Rosenblad, John L. (D. U. Deere, Adviser), Geomechanical model study of the failure modes of jointed rock masses.

Tsao, Hsueh-Sheng (A. H.-S. Ang, Adviser), Examination of stochastic models for seismic design.

Wang, Raymond C. (V. T. Chow, Adviser), The mechanics of a drop after striking a stagnant water layer.

Windsor, James S. (V. T. Chow, Adviser), Mathematical model of a farm irrigation system.

Wood, Robert F. (R. S. Engelbrecht, Adviser), The effect of sludge characteristics upon the flotation of bulked activated sludge.

Wortman, Robert H. (J. E. Baerwald, Adviser), A study of terminals as a component of the transportation system.

Yoon, Yong N. (H. G. Wenzel, Adviser), The effect of rainfall on the mechanics of steady spatially varied sheet flow on a hydraulically smooth boundary.

CLASSICS

ALLEN, HUBERT L., Assistant Professor

Articles

Excavations at Morgantina (Serra Orlando), 1967-69 preliminary report X. *American Journal of Archaeology*, 74:359-83, plates 91-98.

HELLER, JOHN L., Professor

Articles

Linnaeus's *bibliotheca botanica*. *Taxon*, 19, 3:363-411.

JACOBSON, HOWARD, Assistant Professor

Articles

Joyce and the *Iliad*: a suggestion. *James Joyce Quarterly*, 7, 2:141-42.

MARCOVICH, MIROSLAV, Professor

Articles

Displacement in Hippolytus' *Refutatio*. In *Memorial Philip Merlan*, ed. by Robert B. Palmer, Martinus Nijhoff, The Hague, pp. 240-44.

Bacchylides' Ode VII. *Greek, Roman and Byzantine Studies*, 11:181-84.

Callimachus' Epigram XIII. *Revue des Etudes Grecques*, 83:69-73.

On the *Odyssey* XVII, 593-94. *Platon*, 21: 297-301.

Tanta moles. *La Parola del Passato*, 134:347.

NAOUMIDES, MARK, Professor

Reviews

The ptolemaic papyri of Homer, by Stephanie West. *American Journal of Philology*, 91: 375-78.

NEWMAN, JOHN K., Associate Professor

Articles

Romanitas. *Latinitas*, 18, 2:141-49.

SCANLAN, RICHARD T., Associate Professor

Articles

Computer assisted instruction in the humanities. *Illinois Journal of Education*, 61, 2: 33-36.

It's superlegatus. *Quinto Lingo*, 8, 8-9:40L-40R.

SCHOEDEL, WILLIAM R., Professor

Articles

Scripture and the seventy-two heavens of the first apocalypse of James. *Novum Testamentum*, 12, 2:118-29.

Reviews

Recherches sur Simon le mage, vol. 1: L'Apophysis megale, by J. M. A. Salles-Dabadie. *Journal of Biblical Literature*, 89, 3:382-83.

COMMUNICATIONS RESEARCH, INSTITUTE OF

CAREY, JAMES W., Research Associate
Professor and Director of Institute

Articles

With J. J. Quirk

The myths of the electronic revolution, I. *American Scholar*, 39, 2:219-41.

The myths of the electronic revolution, II. *Ibid.*, 3:395-424.

Reviews

Dwight MacDonald on movies, by Dwight MacDonald. *Journalism Quarterly*, 47, 1: 181-82.

FISHBEIN, MARTIN, Research Professor

See Psychology.

GUBACK, THOMAS H., Research Associate
Professor

Articles

Business and the arts. *Journal of Aesthetic Education*, 4, 3:131-37.

Reviews

Theater in America, by Jack Poggi. *Ibid.*, 2:166-68.

MERRITT, RICHARD L., Research Professor

See Political Science.

OSGOOD, CHARLES E., Research Professor

Articles

Interpersonal verbs and interpersonal behavior. In *Language and thought*, ed. by J. Cowan, University of Arizona Press, Tucson, pp. 133-228.

Speculations on the structure of interpersonal intentions. *Behavioral Science*, 15, 3:237-54.

SIMONS, RITA J., Research Professor

See Sociology.

WIGGINS, NANCY A., Research Associate
Professor

Articles

With J. R. Hackman, A. Bass

Prediction of long-term success in doctoral work in psychology. *Educational and Psychological Measurement*, 30: 365-74.

With F. Snyder

Affective meaning systems: a multivariate ap-

proach. *Multivariate Behavioral Research*, 5:453-68.

Reviews

Handbook of measurement and assessment in behavioral sciences, by D. K. Whitla. *Journal of the American Statistical Association*, 65:1683-85.

DOCTORAL DISSERTATIONS

Callanan, Thomas P. (J. W. Carey, Adviser), Political dissent of the New York literary intellectuals: from the *Masses* to the *New York Review of Books* — 1910 to 1969.

Hadley, John S. (A. M. Barban, Adviser), The interaction of personality, products and strategic communications as viewed through a framework of perceived risk.

Halverson, Roy K. (J. W. Jensen, Adviser), Trends in daily newspaper circulation.

Kelling, Kent W. (H. S. Maclay, Adviser), Scalar characteristics of antonymous adjectival meanings in English: a theoretical and empirical investigation.

Lakner, Edward W. (C. E. Osgood, Adviser), Recognition of numerals imbedded in words, pronounceable nonwords, and random sequences of letters.

Nogle, Lawrence E. (H. S. Maclay, Adviser), Method and theory in the semantics and cognition of kinship terminology.

Owen, Philip J. (W. R. Ashby, Adviser), Variety as economic value: an approach to welfare through information theory.

Robinovitch, Sidney P. (J. W. Carey, Adviser), Information and utopia: the aesthetic transformation of man's symbolic environment.

Russell, John T. (H. S. Maclay, Adviser), Consumer perception and recall as a function of selected variables.

Smith, Larry R. (J. W. Carey, Adviser), The Beatles as act: a study of control in a musical group.

COMPARATIVE LITERATURE

ALDRIDGE, A. OWEN, Professor

Articles

Chateaubriand, the idea of liberty, and Latin America. In *Chateaubriand today*, ed. by Richard Switzer, University of Wisconsin Press, Madison, pp. 201-13.

The religion of Thomas Paine. *Akten des XIV. Internationalen Kongresses für Philosophie*, 5:393-94.

Reviews

The Americas look at each other, by José A. Balseiro. *Criticism, a Quarterly for Literature and the Arts*, 12, 3:254-55.

Essais de littérature comparée II, by François Jost. *Books Abroad*, 44, 2:256-57.

The myth of the Golden Age in the Renaissance, by Harry Levin. *Modern Language Journal*, 54, 6:444-45.

Perspectives in literary symbolism (Yearbook of comparative criticism, vol. 1), ed. by Joseph Strelka. *Journal of Aesthetic Education*, 4, 1:150-52.

T. S. Eliot and Charles Baudelaire, by Kerry Weinberg. *Books Abroad*, 44, 2:313-14.

Roger Williams, by Henry Chupack. *Journal of American History*, 56, 3:409-10.

FREY, JOHN R., Professor

See Germanic Languages and Literatures.

JOST, FRANCOIS, Professor

Articles

Le Contexte européen du sonnet. *Zagadnienia Rodzajów Literackich*, 13, 1:5-28.

Guillaume Tell: héros historique ou type littéraire? *Contact*, 1970, 14:33-45.

MONTANO, ROCCO, Professor

See Spanish, Italian, and Portuguese.

DOCTORAL DISSERTATIONS

Marcell, Noah (F. Jost, Adviser), Impact and influence of Russian literature upon German writers in the eighteenth and beginning of nineteenth centuries.

Rizk, Samir H. (F. Jost, Adviser), Le réalisme chez Diderot: image de la société contemporaine.

Tytler, Graeme D. C. (F. Jost, Adviser), Character description and physiognomy in the European novel (1800-1860) in relation to J. C. Lavater's *Physiognomische Fragmente*.

COMPUTER SCIENCE

BOWDON, EDWARD K., SR., Assistant Professor

Articles

Digital network design aids — an integrated approach. In *Proceedings of the seventh annual design automation workshop, SHARE* — Association of Computing Machinery — Institute of Electrical and Electronics Engineers, pp. 220-29.

An integrated approach to computer aided design. *Institute of Electrical and Electronics Engineers Computer Society Repository*, R-71, 4:10 pp.

CHAWLA, MAN M., Assistant Professor

Articles

Hilbert spaces for estimating errors of quadratures for analytic functions. *Nordisk Tidsskrift for Informationsbehandling: BIT*, 10, 2:145-55.

Approximation by non-negative algebraic polynomials. *Ibid.*, 3:243-48.

CUDIA, DENNIS F., Assistant Professor

Articles

General problems of formal grammars. *Journal of the Association for Computing Machinery*, 17, 1:31-43.

The degree hierarchy of undecidable problems of formal grammars. In *Second annual ACM symposium on theory of computing*, Northampton, Massachusetts, pp. 10-21.

DARROCH, RUSSELL K., Assistant Professor

Articles

With I. D. Steiner

Role playing: an alternative to laboratory research? *Journal of Personality*, 28:302-11.

With I. Ajzen, M. Fishbein, J. Hornik

Looking backward revisited: a reply to Deutscher. *The American Sociologist*, 5:267-73.

GARBER, JOSEPH A., Research Programmer

Articles

With A. V. Granato

Reradiation and viscous dislocation damping. *Journal of Physics and Chemistry of Solids*, 31, 8:1863-67.

Dislocation resonance. In *Fundamental aspects*

of dislocation theory, ed. by Simmons, deWitt, and Bullough, National Bureau of Standards Special Publication No. 317, vol. 1, Washington, D.C., pp. 419-22.

GEAR, CHARLES W., Professor

Articles

Rational approximations by implicit Runge-Kutta schemes. *Nordisk Tidsskrift for Informationsbehandling: BIT*, 10, 1:20-22.

KUBITZ, WILLIAM J., Assistant Professor

Articles

With W. J. Poppelbaum

The tricolor catograph, an interactive hybrid computer. *Proceedings of the Third Hawaii International Conference on System Science*, 1970, 2:1002-5.

KUCK, DAVID J., Associate Professor

Books

Investigation of new technological developments in electronic computers. Nihon Denshi Shinko Kyokai, Tokyo, 236 pp.

Articles

A preprocessing high-speed memory system. *Institute of Electrical and Electronics Engineers Transactions on Computers*, C-19, 9: 793-802.

With D. H. Laurie

The use and performance of memory hierarchies: a survey. In *Software engineering*, vol. 1, ed. by J. T. Tou, Academic Press, Inc., New York and London, pp. 45-77.

McCORMICK, BRUCE H., Professor

Articles

With J. C. Schwebel

Consistent properties of composite formation under a binary relation. *Information Sciences*, 2, 2:179-209.

McINTYRE, DAVID E., Principal Research Engineer

Articles

An introduction to ILLIAC IV computer. *Datamation*, 16, 4:61-67.

MICHALSKI, RYSZARD S., Assistant Professor

Articles

Synthesis of minimal forms and recognition of symmetry of switching functions. In *Proceedings of the Institute of Automatic Control*, No. 91, Polish Academy of Sciences, Warsaw, 155 pp.

Automatic synthesis of the quasi-minimal multiple-output switching circuits. In *Proceedings of the VI Yugoslav international symposium on information processing (FCIP 70)*, D1-2, Bled, Yugoslavia, 8 pp.

MUROGA, SABURO, Professor

Articles

Logical design of optimal digital network by integer programming. In *Advances in information systems science*, vol. 3, ed. by J. T. Tou, Plenum Press, New York, pp. 283-348.

With T. Ibaraki

Adaptive linear classifier by linear programming. *Institute of Electrical and Electronics Engineers Transactions on Systems Science and Cybernetics*, SSC-6, 1:53-62.

With T. Tsuboi, C. R. Baugh

Enumeration of threshold functions of eight

variables. *Institute of Electrical and Electronics Engineers Transactions on Computers*, C-19, 9:818-25.

Reviews

Threshold logic, by C. L. Sheng. *Computing Review*, 11, 5:295-96.

NEEVERGELT, JURG, Associate Professor

Articles

On the time required for timing—the malfunction problem rephrased. *Institute of Electrical and Electronics Engineers Transactions on Computers*, C-19, 5:458-59.

With M. I. Ireland

Bounce-and-skip. A technique for directing the flow of control in programs. *The Computer Journal*, 13, 3:261-62.

With K. J. Travers

Computer education for secondary school mathematics teachers. *Proceedings of Association of Computing Machinery Symposium on Academic Education in Computer Science*, ACM-SIGCSE Bulletin, 2, 3:75-83.

POPPELBAUM, WOLFGANG J., Professor

Articles

Projects in the hardware research group of the Department of Computer Science of the University of Illinois. In *Proceedings of the seventh annual Allerton conference on circuit and system theory*, pp. 291-95. 1969.

With W. J. Kubitz

The tricolor catograph, an interactive hybrid computer. *Proceedings of the Third Hawaii International Conference on Systems Sciences*, 1970, 2:1002-5.

REINGOLD, EDWARD M., Assistant Professor

Articles

On the optimality of some set and vector algorithms. In *Institute of Electrical and Electronics Engineers conference record of the eleventh annual symposium on switching and automata theory (1970)*, pp. 68-71.

ROBERTSON, JAMES E., Professor

Articles

The correspondence between methods of digital division and multiplier recoding procedures. *Institute of Electrical and Electronics Engineers Transactions on Computers*, C-19, 8:692-701.

SHER, MICHAEL S., Assistant Professor

Articles

With P. Signell, L. Heller

Characteristics of the proton-proton interaction deduced from the data below 30 MeV. *Annals of Physics*, 58, 1:1-46.

SLOTNICK, DANIEL L., Professor

Articles

Logic per track devices. In *Advances in computers*, vol. 10, ed. by Alt, Rubinfeld, and Freiberger, Academic Press, New York and London, 6 pp.

Parallelism in systems architecture. In *Proceedings of the 1970 computer conference—international*, pp. 367-70.

SNYDER, JAMES N., Professor

Articles

Philosophy of a three view PEPR. *Proceedings of the second international colloquium on PEPR*, Massachusetts Institute of Tech-

nology Laboratory for Nuclear Science, pp. 403-9.

With A. H. Taub

Relativistic gas spheres at constant entropy. In *Quasars and high-energy astronomy*, including the Proceedings of the second Texas symposium on relativistic astrophysics, December 15-19, 1964, ed. by Douglas, Robinson, Schild, Schucking, Wheeler, and Woolf, Gordon and Breach Science Publishers, New York, pp. 411-24. 1969.

With P. L. Bastien, V. Pless

A program to match bubble chamber tracks in space. *Proceedings of the second international colloquium on PEPR*, Massachusetts Institute of Technology Laboratory for Nuclear Science, pp. 383-402.

DOCTORAL DISSERTATIONS

Atkins, Daniel E., III (J. E. Robertson, Adviser), A study of methods for selection of quotient digits during digital division.

Baugh, Charles R. (S. Muroga, Adviser), Pseudo-threshold logic: a generalization of threshold logic.

Chase, Stephen M. (J. Nievergelt, Adviser), Analysis of algorithms for finding all spanning trees of a graph.

Chen, Frank T. (S. Muroga, Adviser), An algorithm for the minimization of two-level multiple-output networks.

Ellis, Clarence A. (D. E. Muller, Adviser), Probabilistic languages and automata.

COORDINATED SCIENCE LABORATORY

CHEN, CHIN-LONG, Research Assistant Professor, Coordinated Science Laboratory and Electrical Engineering

Articles

Computer results on the minimum distance of some binary cyclic codes. *IEEE Transactions on Information Theory*, 16, 3:359-60.

With S. Lin

On shortened Reed-Muller codes. In *Proceedings eighth annual Allerton conference on circuit and system theory*, pp. 71-72.

With R. T. Chien

Recent developments in majority-logic decoding. *Proceedings of the National Electronics Conference*, 26:458-61.

CHIEN, ROBERT T., Acting Director, Coordinated Science Laboratory; Professor, Electrical Engineering

Articles

Recent developments in algebraic decoding. In *Proceedings of the 1969 international telemetering conference*, pp. 136-48.

With M. Y. Hsiao, D. C. Bossen

Orthogonal latin square codes. *IBM Journal of Research and Development*, 14, 4:390-94.

With D. T. Tang

Error control with coding. *IBM Systems Journal*, 8, 1:48-87.

Reviews

Review of algebraic coding theory by E. R. Berlekamp. *IEEE Transactions on Information Theory*, 15:4.

COOPER, DUANE H., Research Associate Professor, Coordinated Science Laboratory; Associate Professor, Electrical Engineering and Physics

See Electrical Engineering.

CRUZ, JOSE B., JR., Research Professor, Coordinated Science Laboratory; Professor, Electrical Engineering

Articles

With N. Sundararajan

Comments on "ε-coupling method for near-optimum design of large-scale linear systems." *Proceedings of the IEE*, 117, 1:223.

With A. H. Haddad

Comments on "ε-coupling method for near-optimum design of large linear systems." *Ibid.*, pp. 223-24.

With J. E. Heller

A minimax algorithm for parameter optimization. In *Digest, international conference on microelectronics, circuit and theory*, Sydney, Australia, pp. 62-63.

A minimax algorithm for parameter optimization. In *Proceedings of the IFAC Kyoto symposium on systems engineering approach to computer control*, Kyoto, Japan, pp. 642-48.

CULTON, JON W., Research Engineer, Coordinated Science Laboratory

Articles

With R. N. Peacock

An omegatron for total and partial pressure measurement. *Journal of Vacuum Science and Technology*, 7, 1:188-91.

DUKE, CHARLES B., Research Professor, Coordinated Science Laboratory; Professor, Physics

See Physics.

HADDAD, ABRAHAM H., Research Associate Professor, Coordinated Science Laboratory; Associate Professor, Electrical Engineering

Articles

An example for an optimally sensitive system. *IEEE Transactions on Automatic Control*, AC-15, 1:110-11.

Dynamical representation of Markov processes of the separable class. *IEEE Transactions on Information Theory*, IT-16, 5:529-34.

With J. B. Cruz, Jr.

Comments on ε-coupling method for near optimum design of large scale linear systems. *Proceedings of IEE*, London, 117, 1:223-24.

With S. A. Guccione

A comparison of some data compression systems. In *Proceedings fourth annual Princeton conference on information science and systems*, pp. 83-87.

With J. V. Bodycomb

Some properties of a predictive quantizing system. *IEEE Transactions on Communication Technology*, COM-18, 5:682-84.

HICKS, BRUCE L., Research Professor, Coordinated Science Laboratory; Research Professor, Computer-based Education Research Laboratory; Professor, Aeronautical and Astronautical Engineering and College of Education

Articles

Will the computer kill education? *Educational Forum*, 34, 3:307-12.

Will the computer kill education? *Education Digest*, 36, 1:10-12.

JACKSON, E. ATLEE, Research Associate Professor, Coordinated Science Laboratory; Associate Professor, Physics

See Physics.

JOHNSON, ROGER L., Research Assistant
Professor, Coordinated Science Laboratory;
Assistant Professor, Electrical Engineering

Articles

With N. A. Risser

Design and implementation of a computer-based education system. In *The computer utility: implications for higher education*, ed. by M. A. Duggan, E. F. McCartan, and I. R. Manely, D. C. Heath and Co., Lexington, Massachusetts, pp. 133-51.

KARR, GERALD R., Research Assistant
Professor, Coordinated Science Laboratory;
Assistant Professor, Aeronautical and
Astronautical Engineering

Bulletins and Technical Reports

Determination of atmospheric density and gas-surface interaction parameters. 14th Aerospace Force, Ent Air Force Base, Colorado, 18 pp.

KELLEY, KARL C., Research Engineer,
Coordinated Science Laboratory

Articles

With W. J. Bouknight

An algorithm for producing half-tone computer graphics presentations with shadows and moveable light sources. *AFIPS Conference Proceedings, 1970 Spring Joint Computer Conference*, 36:527-36.

KOKOTOVIC, PETAR V., Research Professor,
Coordinated Science Laboratory; Professor,
Electrical Engineering

Articles

Asymptotic decoupling method for high-order differential games. In *Proceedings international conference on the theory and applications of differential games*, pp. 1-10.

With G. Singh

Application of maximum principle to optimal control of an electric train. In *Proceedings third asilomar conference on circuits and systems*, pp. 511-15.

Optimization of coupled nonlinear systems. *Ibid.*, pp. 535-42.

With G. D'Ans, D. Gottlieb

Time-optimal control for a model of bacterial growth. In *Proceedings of the 4th Princeton conference on information sciences and systems*, pp. 26-29.

With C. Hadlock, M. Jamshidi

Near optimum design of three-time scale systems. *Ibid.*, pp. 118-22.

With M. Jamshidi

Optimal tension regulation of a strip winding process. In *1970 joint automatic control conference*, pp. 1-7.

With W. R. Perkins

Deterministic parameter estimation for near-optimum feedback control. In *Proceedings second IFAC symposium on identification and estimation, Prague*, pp. 641-46.

With R. Yackel

Singular perturbation theory of linear state regulators. In *Proceedings eighth annual Allerton conference on circuit and system theory*, pp. 310-21.

LYMAN, ERNEST M., Research Professor,
Coordinated Science Laboratory; Assistant
Professor, Physics

See Physics.

MAYEDA, WATARU, Research Professor,
Coordinated Science Laboratory; Professor,
Electrical Engineering

Articles

A proof of Tutte's realizability condition. *IEEE Transactions on Circuit Theory, CT-17*, 4:506-11.

Computerized data communication system and vertex weighted linear graph. In *Proceedings of 3rd international conference on system science*, pp. 1032-35.

Flow reliability of communication net. In *Proceedings of Kyoto international conference on circuit and system theory*, Kyoto, Japan.

With J. K. Aggarwal, C. V. Ramamoorthy

On multiple transmission. *IEEE Transactions on Circuit Theory, CT-17*, 2:245-48.

With C. V. Ramamoorthy

Distinguishability, criteria in oriented graphs and its application to computer diagnosis, 11. In *Proceedings of 1970 IEEE international symposium on circuit theory*, vol. 1, pp. 38-39.

PEACOCK, R. NORMAN, Research Associate
Professor, Coordinated Science Laboratory;
Associate Professor, Physics

Articles

With D. P. Cook, G. DePasquali,
H. Frauenfelder, F. Steirrisser,
A. Wattenberg

Search for fractionally charged particles. *Physical Review*, 188:2092.

With D. L. Miller

A solid state infrared converter. *International Journal of Nondestructive Testing*, 2:1-17.

With J. T. Jacobs, R. C. Birtcher

Temperature variation of the resistivity of epitaxial gold films. *Journal of Vacuum Science and Technology*, 7:339.

With J. W. Culton

An omegatron for total and partial pressure measurement. *Ibid.*, p. 188.

With W. P. Bleha, W. Hartman, J. L. Jimenez
Resistivity variations in vacuum evaporated CdS thin films. *Ibid.*, p. 135.

With W. P. Bleha

Photoluminescent properties of vacuum deposited CdS films. *Journal of Applied Physics*, 41:4992-5003.

PERKINS, WILLIAM R., Research Professor,
Coordinated Science Laboratory; Professor,
Electrical Engineering

Articles

With P. V. Kokotovic

Deterministic parameter estimation for near-optimum feedback control. In *Proceedings of IFAC symposium identification and process parameter estimation*, pp. 6.4.1-6.4.6.

Singular perturbation approach to deterministic parameter estimation. In *Proceedings of 4th Princeton conference on information sciences and systems*, p. 117.

With D. F. Wilkie

Controllability and observability of sensitivity models. *Ibid.*, pp. 180-83.

PREPARATA, FRANCO P., Research
Professor, Coordinated Science Laboratory;
Professor, Electrical Engineering

Articles

A new look at the Golay (23,12) binary code. *IEEE Transactions on Information Theory*, 16, 4:510-11.

On the design of universal logical networks. In *Proceedings Kyoto international conference on circuit and system theory*, pp. 291-92.

- An improved upper-bound to free distance for rate in convolutional codes. In *Proceedings of M. J. Kelley communication conference*, pp. 3.1-3.5.
- With D. E. Muller
Generation of near-optimum universal Boolean functions. *Journal of Computer and System Sciences*, 4, 2:93-107.
- With A. Martelli
On thickness and cascade decomposition of permutation connections. In *Proceedings Kyoto international conference on circuit and system theory*, pp. 23-24.
- PROPST, FRANKLIN M., Research Associate Professor, Coordinated Science Laboratory; Associate Professor, Physics; Associate Director for Planning, Computer-based Education Research Laboratory
- Articles
With M. Nishijima
Apparatus for the study of the electron impact desorption of ions and neutrals from solid surfaces. *Journal of Vacuum Science and Technology*, 7, 3:410-19.
- Kinetics and electron impact desorption of ions and neutrals from polycrystalline tungsten. *Ibid.*, pp. 420-28.
- Electron-impact desorption of ions from polycrystalline tungsten. *Physical Review*, 2, 7:2368-83.
- STREETMAN, BEN G., Research Associate Professor, Coordinated Science Laboratory; Associate Professor, Electrical Engineering
See Electrical Engineering.
- TRICK, TIMOTHY N., Research Associate Professor, Coordinated Science Laboratory; Associate Professor, Electrical Engineering
- Articles
With M. E. Mokari-Bolhassan
Design of microwave integrated amplifiers. *Proceedings of the Thirteenth Midwest Symposium on Circuit Theory*, 13, 1:X.3.1-X.3.10.
- Efficient generation of sensitivity functions for the design of active-distributed networks. *Proceedings of the Kyoto International Conference on Circuit and System Theory*, 1, 1:181-82.
- Computer-aided design of distributed-lumped-active networks. *IEEE International Symposium on Circuit Theory Digest of Technical Papers*, 1, 1:106-7.
- With J. Vlach
Computer-aided design of broad-band amplifiers with complex loads. *IEEE Transactions on Microwave Theory and Techniques*, 18, 9:541-47.
- Reviews
Circuit theory: an introduction to the state variable approach, by R. A. Rohrer. *IEEE Circuit Theory Group Newsletter*, 13, 1: X.3.1-X.3.10.
- VON FOERSTER, HEINZ, Research Professor, Coordinated Science Laboratory; Professor, Electrical Engineering; Professor, Biophysics
See Electrical Engineering.
- WAX, NELSON, Research Professor, Coordinated Science Laboratory; Professor, Electrical Engineering
- Articles
Nonlinear systems with hysteresis. In *Proceedings Kyoto international conference on circuit theory*, pp. 231-32.
- With P. J. Pozzo
Notes on the equation $\ddot{y} - \mu \sin \dot{y} + y = 0$ and some variants. *Journal of Mathematical Analysis and Applications*, 31, 3:595-602.
- WESTON, PAUL E., Research Associate, Coordinated Science Laboratory
- Articles
Man-like machines: the language barrier. In *Cognition: a multiple view*, ed. by Paul Garvin, Spartan, New York, pp. 407-14.
- DAIRY SCIENCE
- BAUMAN, DALE E., Assistant Professor
- Articles
With R. E. Brown, C. L. Davis
Pathways of fatty acid synthesis and reducing equivalent generation in mammary gland of rat, sow, and cow. *Archives of Biochemistry and Biophysics*, 140, 1:237-44.
- BROWN, RICHARD E., Professor
- Articles
With C. L. Davis
Low-fat milk syndrome. In *Physiology of digestion and metabolism in ruminants*, ed. by A. T. Phillipson, Oriel Press, New Castle upon Tyne, England, pp. 545-65.
- With D. E. Bauman, C. L. Davis
Pathways of fatty acid synthesis and reducing equivalent generation in mammary gland of rat, sow, and cow. *Archives of Biochemistry and Biophysics*, 140, 1:237-44.
- BRYANT, MARVIN P., Professor
- Articles
Microbiology of the rumen. In *Dukes' physiology of domestic animals*, ed. by M. J. Swenson, Cornell University Press, Ithaca, New York, pp. 484-515.
- Normal flora—rumen bacteria. *American Journal of Clinical Nutrition*, 23, 11:1440-50.
- DAVIS, CARL L., Professor
- Articles
With R. E. Brown
Low-fat milk syndrome. In *Physiology of digestion and metabolism in ruminants*, ed. by A. T. Phillipson, Oriel Press, New Castle upon Tyne, England, pp. 545-65.
- With D. E. Bauman, R. E. Brown
Pathways of fatty acid synthesis and reducing equivalent generation in mammary gland of rat, sow, and cow. *Archives of Biochemistry and Biophysics*, 140, 1:237-44.
- GRAVES, CHARLES N., Associate Professor
- Articles
With J. D. Biggers
Carbon dioxide fixation by mouse embryos prior to implantation. *Science*, 167, 3924: 1506-8.
- With M. B. Ferguson, O. C. Miller
Internal scrotal temperature of dairy bulls as determined by telemetry. *Journal of Dairy Science*, 53, 12:1703-8.
- With O. C. Miller, J. R. Lodge
Influence of *in vivo* aging of rabbit spermatozoa caused by infrequent collection on fertility and embryonic mortality. *Journal of Animal Science*, 30, 4:549-51.

GROSSMAN, MICHAEL, Assistant Professor

Articles

Sampling variance of the correlation coefficients estimated from analyses of variance and covariance. *Theoretical and Applied Genetics*, 40:357-59.

HARSHBARGER, KENNETH E., Professor and Head of Department

Articles

With K. A. Kendall, R. L. Hays, E. E. Ormiston

Nutritional and breeding studies. Blood serum composition associated with prepartum diet and colostrum removal in relation to parturient paresis. In *Parturient hypocalcemia*, ed. by John J. B. Anderson, Academic Press, Inc., New York, pp. 55-70.

With K. A. Kendall, R. L. Hays, S. L. Spahr
Ammonium chloride helps to control parturient paresis in the dairy cow. *Illinois Research*, 12, 1:14-15.

HAYS, RAY L., Professor

Articles

With K. A. Kendall, K. E. Harshbarger, E. E. Ormiston

Nutritional and breeding studies. Blood serum composition associated with prepartum diet and colostrum removal in relation to parturient paresis. In *Parturient hypocalcemia*, ed. by John J. B. Anderson, Academic Press, Inc., New York, pp. 55-70.

With K. A. Kendall, K. E. Harshbarger, S. L. Spahr

Ammonium chloride helps to control parturient paresis in the dairy cow. *Illinois Research*, 12, 1:14-15.

KENDALL, KENTON A., Professor

Articles

Nutritional and breeding studies. Introduction. In *Parturient hypocalcemia*, ed. by John J. B. Anderson, Academic Press, Inc., New York, pp. 33-34.

Nutritional and breeding studies. Review. *Ibid.*, pp. 91-93.

With K. E. Harshbarger, R. L. Hays, E. E. Ormiston

Nutritional and breeding studies. Blood serum composition associated with prepartum diet and colostrum removal in relation to parturient paresis. *Ibid.*, pp. 55-70.

With K. E. Harshbarger, R. L. Hays, S. L. Spahr

Ammonium chloride helps to control parturient paresis in the dairy cow. *Illinois Research*, 12, 1:14-15.

LARSON, BRUCE L., Professor

Articles

With C. R. Andersen

Comparative maintenance of function in dispersed cell and organ cultures of bovine mammary tissue. *Experimental Cell Research*, 61:24-30.

With D. Rose, J. R. Brunner, E. B. Kalan, P. Melnychyn, H. E. Swaisgood, D. F. Waugh

Nomenclature of the proteins of bovine milk: third revision. *Journal of Dairy Science*, 53, 1:1-17.

LODGE, J. ROBERT, Professor

Articles

With N. S. Fechheimer, R. C. Miller

Sex proportion of domestic chickens at 16

hours of incubation. *Journal of Reproduction and Fertility*, 23, 2:365-67.

With O. C. Miller, C. N. Graves

Influence of *in vivo* aging of rabbit spermatozoa caused by infrequent collection on fertility and embryonic mortality. *Journal of Animal Science*, 30, 4:549-51.

ORMISTON, EMMETT E., Professor

Articles

With K. A. Kendall, K. E. Harshbarger, R. L. Hays

Nutritional and breeding studies. Blood serum composition associated with prepartum diet and colostrum removal in relation to parturient paresis. In *Parturient hypocalcemia*, ed. by John J. B. Anderson, Academic Press, Inc., New York, pp. 55-70.

SALISBURY, GLENN W., Professor and Director of Agricultural Experiment Station

Articles

With R. G. Hart

Gamete aging and its consequences. *Biology of Reproduction*, 2, Supplement 2:1-13.

SPAHR, SIDNEY L., Associate Professor

Articles

Animal waste disposal becomes a more difficult problem. *Illinois Research*, 12, 4:4-5.

With K. A. Kendall, K. E. Harshbarger, R. L. Hays

Ammonium chloride helps to control parturient paresis in the dairy cow. *Illinois Research*, 12, 1:14-15.

TOUCHBERRY, ROBERT W., Professor

Articles

With H. G. Markos

Heritability of rates of milk flow and time required to milk. *Journal of Dairy Science*, 53, 2:188-94.

Variations in the time required to milk cows. *Ibid.*, pp. 176-87.

WOLIN, MEYER J., Professor

Articles

With R. C. Eisenberg, L. Yu

Divalent cation activation of deoxycholate-solubilized and -inactivated membrane reduced nicotinamide adenine dinucleotide oxidase of *Bacillus megaterium* KM. *Journal of Bacteriology*, 102, 1:172-77.

Masking of *Bacillus megaterium* KM membrane reduced nicotinamide adenine dinucleotide oxidase and solubilization studies. *Ibid.*, pp. 161-71.

With L. Yu

Factors affecting deoxycholate inactivation and Mg^{++} reactivation of *Bacillus megaterium* KM membrane nicotinamide adenine dinucleotide (reduced form) oxidase. *Journal of Bacteriology*, 103, 2:467-74.

DOCTORAL DISSERTATIONS

Devore, Archie L. (R. L. Hays, Adviser), The effect of varying levels of estrone and progesterone on the length of gestation in the rat.
Katpatal, Bhasker G. (R. W. Touchberry, Adviser), The fraction of Holstein breeding in Holstein-Dairy Zebu crosses resulting in maximum milk production and growth in India.

Kraft, Larry A. (J. R. Lodge, Adviser), Carbon dioxide uptake and fixation by bovine spermatozoa.

Reddy, Chilcampalli A. (M. P. Bryant, Adviser), Characteristics and metabolism of S

- organism isolated from *Methanobacillus omeiensis*.
- Sharma, Om P. (R. L. Hays, Adviser), Studies on the role of oxytocin in male rabbits.
- Thayne, William V. (R. W. Touchberry, Adviser), Factors affecting milk and butterfat yield in crossbred and contemporary purebred dairy cattle.
- Wester, Ronald C. (G. W. Salisbury, Adviser), Hormonal control of bovine spermatozoan metabolism.
- Yu, Linda S.-W. C. (M. J. Wolin, Adviser), Solubilization, reconstitution and fractionation of the membrane reduced nicotinamide adenine dinucleotide oxidase of *Bacillus megaterium* KM.

DEAN OF STUDENTS' OFFICE

CAQUELIN, HOWARD J., Assistant Director, Office of Foreign Student Affairs

Articles

Education for an emerging profession. *International Educational and Cultural Exchange*, 5, 3:44-65.

HEMBROUGH, BETTY L., Assistant Dean, Office of Student Personnel

Articles

A twofold educational challenge: the student wife and the mature woman student. In *College student personnel: readings and bibliographies*, ed. by Lauren Fitzgerald, Walter F. Johnson, and Willa Norris, Houghton-Mifflin Co., New York, pp. 340-44.

ECONOMIC AND BUSINESS RESEARCH, BUREAU OF

BASSIE, V LEWIS, Director of Bureau and Professor of Economics

Articles

- Income policies in 1969. *Illinois Business Review*, 27, 1:2-8.
- Rising unemployment in prospect. *Ibid.*, 2:2-8.
- The usefulness of price controls. *Ibid.*, 3:2-8.
- Crosscurrents in international finance. *Ibid.*, 4:2-8.
- The bear market in securities. *Ibid.*, 5:2-8.
- Toward a European superpower. *Ibid.*, 6:2-8.
- No assurance of prosperity. *Ibid.*, 7:2-8.
- Economic forecast. In *Encyclopaedia britannica*, ed. by Warren E. Preece, Encyclopaedia Britannica, Inc., Chicago, pp. 928-30.

FERBER, ROBERT, Research Professor of Economics and Marketing
See Business Administration.

GUTHRIE, HAROLD W., Professor of Economics

Articles

The prospect of equality of incomes between white and black families under varying rates of unemployment. *The Journal of Human Resources*, 5, 4:431-46.

Reviews

A primer on the economics of consumption, by Elizabeth W. Gilboy. *The Social Studies*, 61, 3:132.

HEINS, A. JAMES, Professor of Economics
See Economics.

HODGMAN, DONALD R., Professor of Economics

See Economics.

PHILLIPS, JOSEPH D., Professor of Economics

Books

With H. I. Schiller

Readings in the military-industrial complex. University of Illinois Press, Champaign, 353 pp.

ECONOMICS

ANKLI, ROBERT E., Visiting Assistant Professor

Articles

- Agricultural growth in antebellum Illinois. *Journal of the Illinois State Historical Society*, 63, 4:387-98.
- Canadian-American reciprocity: a comment. *Journal of Economic History*, 30, 2:427-31.

ARNOULD, RICHARD J., Assistant Professor

Articles

Conglomerate growth and efficiency. In *Economic concentration*, part 8, by Subcommittee on Antitrust and Monopoly of the Committee on the Judiciary, U.S. Senate, Government Printing Office, Washington, D.C., pp. 4679-702.

Bulletins and Technical Reports

Diversification and profitability among large food processing firms. Agricultural Economic Research Report 171, U.S. Department of Agriculture, Government Printing Office, Washington, D.C., 44 pp.

BASSIE, V LEWIS, Professor

See Bureau of Economic and Business Research.

BREMS, HANS J., Professor

Articles

- Convergence and stability in the neoclassical growth model. *Nationalökonomisk tidskrift*, 107, 5-6:226-35.
- A growth model of international direct investment. *American Economic Review*, 60, 3:320-31.
- Kapitalets gränsproduktivitet, internröntan och penningröntan under inflation. *Ekonomiska samfundets tidskrift*, 23, 2:79-85.
- The profitability of direct investment, national and international. *The Swedish Journal of Economics*, 72, 4:278-300.
- Ricardo's long-run equilibrium. *History of Political Economy*, 2, 2:225-45.
- Sweden: from great power to welfare state. *Journal of Economic Issues*, 4, 2-3:1-16.

DUE, JOHN F., Professor

Books

Indirect taxation in developing economies. Johns Hopkins Press, Baltimore, 201 pp.

Articles

- Dangers in the use of the subsidization technique: the Central Oregon wagon road grants. *Land Economics*, 46, 2:106-17.
- The developing economies, tax and royalty payments by the petroleum industry, and the U.S. income tax. *Natural Resources Journal*, 10, 2:1026.
- Proposals for a value-added tax. *Illinois Business Review*, 27, 2:6-8.

EAGLY, ROBERT V., Visiting Professor

Articles

Adam Smith and the specie-flow doctrine. *Scottish Journal of Political Economy*, 17: 61-68.

Monetary policy and politics in mid-eighteenth century Sweden: a reply. *Journal of Economic History*, 30, 3:655-56.

Reviews

The history of the Söderfors anchor-works, by Johan Lundström. *Journal of Economic History*, 30, 4:904-5.

FERBER, ROBERT, Professor

See Business Administration.

FOLK, HUGH W., Professor

See Labor and Industrial Relations.

FRANKEL, MARVIN, Professor

Articles

With S. F. Chu, D. J. Aigner

On the log-quadratic production function. *Southern Economic Journal*, 37, 1:32-39.

HARBESON, ROBERT W., Professor

Articles

Diversification and transport investment. *Land Economics*, 46, 1:12-21.

Economic status of local service airlines. *Journal of Transport Economics and Policy*, 4, 3:309-25.

Reviews

The Transportation Act of 1958: a decade of experience, by George W. Hilton. *Quarterly Review of Economics and Business*, 10, 1: 83-88.

HARTMAN, PAUL T., Associate Professor

Articles

Technical change on the waterfront: implications of the west coast experience. In *The dynamics of change—labour relations on the Montreal waterfront*, ed. by Frances Bairstow, McGill University, Montreal, pp. 10-29.

Labor unions. In *Collier's year book for 1970*, Crowell-Collier Corporation, New York, pp. 311-15.

HEINS, A. JAMES, Professor

Articles

The negative income tax, head grants, and public employment programs: a welfare analysis. *Journal of Human Resources*, 5, 3:298-303.

HODGMAN, DONALD R., Professor

Articles

The future of Illinois banking. *Illinois Business Review*, 27, 11:2-8.

Bulletins and Technical Reports

Euro-dollars and national monetary policies. Irving Trust Company, New York, 32 pp.

Reviews

The one bank holding company, ed. by Herbert V. Prochnow. *Journal of Finance*, 25, 4:979-80.

JUDGE, GEORGE G., Professor

Books

With T. C. Lee, A. Zellner

Estimating the parameters of the Markov probability model from aggregative time series data. North Holland Publishing Co., Amsterdam, 256 pp.

Articles

With T. Takayama

Equilibrium among spatially separated markets. In *Spatial economic theory*, ed. by R. Dean, The Free Press, New York, pp. 307-22.

Price and allocation over space. In *Economics of fisheries*, ed. by A. Scott, University of British Columbia Press, Vancouver, pp. 79-95.

Alternative spatial equilibrium models. *Journal of Regional Science*, 10, 1:1-12.

With T. A. Yancey

The use of prior information in estimating the parameters of economic relationships. *Metroeconomica*, 21, 1:97-140.

KEMMERER, DONALD L., Professor

Reviews

Heir to empire: United States economic diplomacy, 1916-1923, by Carl P. Parrini. *Annals of the American Academy of Political and Social Science*, 389:140-41.

McMAHON, WALTER W., Associate

Professor

Articles

An economic analysis of major determinants of expenditures on public education. *Review of Economics and Statistics*, 52, 3:242-52.

With C. M. Sprenkle

A theory of earmarking. *National Tax Journal*, 23, 3:255-61.

MILLAR, JAMES R., Associate Professor

Articles

A reformulation of A. V. Chayanov's theory of peasant economy. *Economic Development and Cultural Change*, 18, 2:219-29.

Soviet rapid development and the agricultural surplus hypothesis. *Soviet Studies*, 22, 1: 77-93.

With C. A. Guntzel

The economics and politics of mass collectivization reconsidered: a review article. *Explorations in Economic History*, 8, 1:103-16.

Reviews

An analysis of Soviet views on John Maynard Keynes, by Carl B. Turner. *Quarterly Review of Economics and Business*, 10, 1:88-90.

Contemporary Soviet economics (2 vols.), ed. by Murray Yanowitch. *Quarterly Journal of Economics and Business*, 10, 4:87-88.

PADEN, DONALD W., Professor

Articles

With M. E. Moyer

Economics achievement and mathematics training. *Journal of Economic Education*, 2, 1: 104-6.

PARRISH, JOHN B., Professor

Articles

Coming crisis in women's higher education and work. *American Association of University Women Journal*, 64, 2:17-19.

Women's high level training and work: where to now? *Training and Development Journal*, 24, 11:20-22.

With J. W. McGuire

Business schools and urban affairs: views of 250 leading executives. *American Association of Collegiate Schools of Business Bulletin*, 7, 1:35-41.

RESEK, ROBERT W., Professor

Articles

Multidimensional risk and the Modigliani-Miller hypothesis. *Journal of Finance*, 25: 47-51.

SIMON, JULIAN L., Professor

See Business Administration.

SPREngle, CASE M., Professor

Articles

With W. W. McMahon

A theory of earmarking. *National Tax Journal*, 23, 3:255-61.

TAIRA, KOJI, Professor

See Labor and Industrial Relations.

TAKAYAMA, TAKASHI, Professor

Articles

With G. G. Judge

Price and allocation over space. In *Economics of fisheries*, ed. by A. Scott, University of British Columbia Press, Vancouver, pp. 79-95.

Alternative spatial equilibrium models. *Journal of Regional Science*, 10, 1:1-12.

With A. D. Woodland

Equivalence of price and quantity formulations of spatial equilibrium: purified duality in quadratic and concave programming. *Econometrica*, 38, 4:889-906.

VANDENDRIES, RENÉ I., Assistant Professor

Reviews

The agricultural development of Peru, by A. J. Coutu and R. A. King. *American Journal of Agricultural Economics*, 52, 2:342.

Alliance for Progress: a social invention in the making, by H. S. Perloff. *Quarterly Review of Economics and Business*, 10, 3:96-98.

WEISER, LAWRENCE A., Assistant Professor

Articles

Effects of aggregation on tests of the Ohlin theory. *The Malayan Economic Review*, 15, 1:1-9.

YANCEY, THOMAS A., Associate Professor

Articles

With G. G. Judge

The use of prior information in estimating the parameter of economic relationships. *Metroeconomica*, 21, 1:97-140.

YEUNG, PATRICK, Assistant Professor

Articles

Hong Kong's foreign trade multiplier: a preliminary study. *Economics Journal of Hong Kong University*, 1969:6-9.

Trade centers and the theory of tariffs. *Hong Kong Economic Papers*, 5:18-23.

Trade ties between Hong Kong and Mainland China. *Asian Survey*, 10, 9:820-39.

DOCTORAL DISSERTATIONS

Balasubramanyam, Vudayagiri N. (M. Frankel, Adviser), International trade in knowledge—a study of the Indo-foreign technical collaboration agreements in the private sector.

Boland, Dennis E. (H. O. Nourse, Adviser), A statistical analysis of residential rehabilitation expenditures.

Good, Delmar G. (J. F. Due, Adviser), Benefit-cost analysis of the Illinois high school driver education program.

Guy, Donald C. (H. O. Nourse, Adviser), An analysis of a filtering hypothesis in urban housing markets: an empirical test in Kankakee.

Johnson, Keith H. (R. Ferber, Adviser), On combining time series and cross-section data in dynamic economic models.

Nicholas, James C. (H. O. Nourse, Adviser), The economic growth of cities: a modified export base approach.

Peterson, Jerrold M. (P. Wells, Adviser), Product quality and technological change.

Rabianski, Joseph S. (H. O. Nourse, Adviser), Real earnings and the present value of future earnings in a theory of human migration.

Redman, Milton B. (D. W. Paden, Adviser), The effects of ability and motivation on earnings of college graduates.

Stolen, Justin D. (D. R. Hodgman, Adviser), A study of certain motivations behind long term portfolio capital flows between countries: 1958-1967.

Streeter, Lanny E. (P. Wells, Adviser), Optimal international reserve holdings: an inventory model and empirical tests.

Thornton, Robert J. (P. T. Hartman, Adviser), Collective negotiations for teachers: history and economic effects.

Walzer, Norman C. (H. O. Nourse, Adviser), Economics of scale and municipal police services.

Wrone, James G. (R. Brandis, Adviser), Effective rates of protection in the United States: an analysis of the Kennedy round tariff reductions.

EDUCATION

ALEAMONI, LAWRENCE M., Associate Professor

See Instructional Resources.

ANDERSON, ERNEST F., Associate Professor

See School and College Relations, University Office of.

ANDERSON, RICHARD C., Professor

Books

With H. Liebherr and others

Biological science: patterns and processes (second ed.). Holt, Rinehart, and Winston, New York, 310 pp.

Articles

Discussion of "instructional variables and learning outcomes." In *Evaluation of instruction*, ed. by Witrock and Wiley, Holt, Rinehart, and Winston, New York, pp. 126-33.

Critique of "the control of attentive reading." In *Verbal learning research and the technology of written instruction*, ed. by Rothkopf, Columbia University Teacher's College Press, New York.

Control of student mediating processes during verbal learning and instruction. *Review of Educational Research*, 40:349-69.

ATKIN, J. MYRON, Professor and Dean of the College

Articles

The Kerner commission report and educational change. In *The Kerner report revisited*, ed. by P. Meranto, Institute of Government and Public Affairs, Urbana, Illinois, pp. 25-30.

BIJOU, SIDNEY W., Professor

See Psychology.

BLAIR, GLENN M., Professor

Articles

How learning theory is related to curriculum organization. In *Selected academic readings*, ed. by Strausberg, Educational Publishing Co., New York, p. 7.

With R. S. Jones

Physical development. In *Adolescents and the American high school*, ed. by Purnell, Holt, Rinehart, and Winston, Inc., New York, pp. 32-39.

BOYD, ROBERT E., Assistant Professor

Articles

Whitehorn-Betz A-B score as an effector of client-counselor interaction. *Journal of Counseling Psychology*, 17, 3:279-83.

BROUDY, HARRY S., Professor

Articles

Needs of elementary and secondary schools in the seventies. In *A compendium of policy papers*, Committee on Education and Labor, House of Representatives, 91st Congress, Washington, D.C., pp. 71-76.

The role of the humanities in the curriculum. In *Teaching the humanities*, ed. by Schwartz, Macmillan, New York, pp. 276-84.

Fact knowing and aesthetic education. In *Aesthetic concepts and education*, ed. by Ralph M. Smith, University of Illinois, Urbana, Illinois, pp. 77-106.

A philosophy of the ideal school. In *The ideal school*, ed. by Kinney, Kragg Press, Wilmette, Illinois, pp. 1-21.

Quality education and aesthetic education. In *Concepts in art and education*, ed. by Pappas, Macmillan, New York, pp. 280-90.

Components and constraints of curriculum research. *Curriculum theory network*, 4, 1:12-22.

The philosophical foundations of educational objectives. *Educational Theory*, 20, 1:3-22.

Can research escape the dogma of behavioral objectives? *School Review*, 79, 1:43-56.

BURNETT, JACQUETTA H., Associate Professor

See Educational Research, Bureau of.

BURNETT, JOE R., Professor

Books Edited

With F. Bowers, J. A. Boydston, G. E. Axelle, L. E. Hahn, and others

The early works (1882-1898) of John Dewey: essays and outlines of a critical theory of ethics, vol. 3. Southern Illinois University Press, Carbondale and Edwardsville, 396 pp.

Guide to the works of John Dewey. Southern Illinois University Press, Carbondale and Edwardsville, 396 pp.

Articles

With G. E. Axelle

Dewey on education and schooling. In *Guide to the works of John Dewey*, ed. by Boydston, Southern Illinois University Press, Carbondale and Edwardsville, pp. 257-89.

Changing the social order: the role of schooling. *Educational Theory*, 19, 4:327-36. Also in *Proceedings of the philosophy of education society: 1969*, Southern Illinois University, Edwardsville, pp. 233-42.

CARVER, FRED D., Associate Professor

Articles

School organization and curriculum change. *Journal of Aesthetic Education*, 4, 1:73-83.

With H. H. Lerch

A model for the evaluation of teacher education programs and some illustrative data. *Educational Leadership*, 27, 4:373-78.

Reviews

This is the community college, by Edmund J. Gleazer, Jr. *Educational Forum*, 34, 2: 269.

COLLER, ALAN R., Specialist in Education

Articles

With L. S. Goldstein, J. Dill, H. S. Tillis

The effect of a special curriculum for disadvantaged children on test-retest reliabilities of three standardized instruments. *Journal of Educational Measurement*, 7, 3:171-74.

COLWELL, RICHARD J., Professor

Books

The evaluation of music teaching and learning. Prentice-Hall, Englewood Cliffs, New Jersey, 182 pp.

MAT interpretative manual. Follett Educational Corp., Chicago, 254 pp.

Articles

Research and you. *Illinois Music Educator*, 30:1-4.

Bulletins and Technical Reports

MAT administrative scoring manual no. 3, Follett Educational Corp., Chicago, 32 pp.

MAT administrative and scoring manual no. 4, Follett Educational Corp., Chicago, 32 pp.

CRAWFORD, WILLIAM R., Assistant Professor

Books Edited

Teacher's manual to accompany The psychology of learning and instruction: educational psychology, by J. P. DeCecco, Prentice-Hall, Englewood Cliffs, New Jersey, 145 pp.

DAVENPORT, JOANNA, Associate Professor

Books Edited

Tennis-badminton guide, June 1970-June 1972. American Association for Health, Physical Education and Recreation, Washington, D.C., 160 pp.

DELANEY, DANIEL J., Associate Professor

Articles

With S. Eisenberg

Using video simulation of counseling for training counselors. *Journal of Counseling Psychology*, 17, 1:15-19.

With H. A. Moses

Dimensions of pressures faced by teachers: a factor analytic study. *SPATE Journal*, 8, 4:122-28.

DURKIN, DOLORES, Professor

Books

Teaching them to read. Allyn and Bacon, Inc., Boston, 438 pp.

Articles

A language arts program for pre-first-grade children: two-year achievement report. *Reading Research Quarterly*, 5, 4:534-65.

Reading readiness. *Reading Teacher*, 23, 6: 528-35.

What does research say about the time to begin reading instruction? *Journal of Educational Research*, 64, 2:51-56.

ENNIS, ROBERT H., Professor

Articles

Can philosophy of education be relevant? *Educational Theory*, 20, 4:337-44.

Discussion of session, III: Measuring the performance of systems and programs. In *Proceedings of the 1969 invitational conference on testing problems*, Educational Testing Service, Princeton, New Jersey, pp. 115-17.

ERICKSON, JOHN E., Associate Professor

Articles

The importance of student teaching; or caveat emptor. *Supervisor's Quarterly*, 1970, Spring: 17-19.

EVANS, RUPERT N., Professor

See Educational Research, Bureau of.

EVERTTS, ELDONNA L., Associate Professor

Books Edited

Aspects of reading. National Council of Teachers of English, Champaign, Illinois, 75 pp.

Explorations in children's writing. National Council of Teachers of English, Champaign, Illinois, 122 pp.

Articles

Practical implications of recent research in language for elementary teachers. In *Proceedings: Speech Communications Association summer conference VI*, Speech Communications Association, New York, pp. 147-53.

Components of writing. In *Explorations in children's writing*, ed. by Evertts, National Council on Teachers' Education, Champaign, Illinois, pp. 9-17.

Potpourri on writing. *Ibid.*, pp. 99-117.

The creative teacher in the elementary school. In *Proceedings: Wisconsin elementary language arts conference*, Wisconsin Council of Teachers of English, Milwaukee, Wisconsin, pp. 13-25.

Bulletins and Technical Reports

Report on the special EPDA institute and fellowship program in English for speakers of other languages or dialects for state supervisors of English and reading. University of Illinois, Urbana, 439 pp.

FEINBERG, WALTER, Associate Professor

Articles

To define the humanities. In *Teaching the humanities*, ed. by Sheila Schwartz, The Macmillan Company, London, pp. 1-13.

Reply to Professor Schultz. *Educational Theory*, 20, 4:421-25.

FLEY, JO ANN, Associate Professor

Articles

Changing approaches to discipline in student personnel work. In *College student personnel work: readings and bibliographies*, ed. by Fitzgerald, Johnson, and Norris, Houghton Mifflin, Boston, pp. 83-91.

Reviews

Faces of the adolescent girl, by Lillian Cohen Kovar, *The Educational Forum*, 34, 2: 227-78.

GOULET, LARRY R., Professor

Books Edited

With P. B. Baltes

Life-span developmental psychology: theory

and research. Academic Press, New York, 608 pp.

Articles

With P. B. Baltes

Status and issues of life-span developmental psychology. In *Life-span developmental psychology: theory and research*, ed. by Goulet and Baltes, Academic Press, New York, pp. 3-21.

With K. S. Goodwin

Development and choice behavior in probabilistic and problem-solving tasks. In *Advances in child development and behavior*, ed. by H. W. Reese and L. P. Lipsitt, Academic Press, New York, pp. 213-254.

With H. L. Sterns

Verbal-discrimination learning and transfer with verbal and pictorial materials. *Journal of Experimental Child Psychology*, 10:257-63.

GRONLUND, NORMAN E., Professor

Books

Stating behavioral objectives for classroom instruction. Macmillan, New York, 58 pp.

GROTELUESCHEN, ARDEN D., Assistant Professor

Articles

Structure and sequence in teaching number bases to adults. *Adult Education*, 20:195-205.

With D. McQuarrie

Cross-validation of the quick word test as an estimator of adult mental ability. *Adult Education*, 21:14-19.

HASTINGS, J. THOMAS, Professor

Articles

Evaluation in health education. *The Journal of School Health*, 60, 10:519-22.

HEMP, PAUL E., Professor

Books

Ornamental horticulture experience program planning guide and record book. The Interstate Printers, Danville, Illinois, 89 pp.

Articles

Articulation: a responsibility and a challenge. *The Agricultural Education Magazine*, 43, 1:3-4.

HENDERSON, KENNETH B., Professor

Articles

Concepts. In *The teaching of secondary school mathematics*, ed. by Myron Roszkopf, National Council of Teachers of Mathematics, Washington, D.C., p. 29.

The relative effectiveness of four strategies for teaching mathematical concepts. *Journal for Research in Mathematics Education*, 1:69-75.

HICKS, BRUCE L., Professor

Articles

Will the computer kill education? *Educational Forum*, 34, 3:307-12. Also in *Education Digest*, 36, 1:10-12.

HOUSE, ERNEST R., Specialist

Articles

With J. M. Steele, S. D. Lapan, C. T. Kerins
Early findings on the Illinois gifted program. *Gifted Children Newsletter*, 12, 2:24-28.

With J. M. Steele, C. T. Kerins

What happens when sugar daddy evaluates his

own baby? *Phi Delta Kappan*, 52, 4:247-48.

INCE, ROBERT L., Associate Professor

Books Edited

Research directions in elementary school speech. *Speech Communication*, New York, 71 pp.

Articles

Secondary school speech education in Illinois. *Illinois Journal of Education*, 61, 6:95-99.

JOHNSON, WILLIAM D., Associate Professor

Articles

Using videorecordings to improve instruction. *Michigan Journal of Secondary Education*, 11, Spring:35-40.

With J. E. Knaupp

Trainee role expectations of microteaching supervisor. *Journal of Teacher Education*, 22, Fall:396-401.

With J. Mars

Problems for the innovator of microteaching. *Educational Television*, 2, February:16-22.

With R. Payette, B. Cox

Review of research in social studies:1969. *Social Education*, 34, 8:933-54.

KATZ, LILIAN G., Professor

Articles

Early childhood education as a discipline. *Young Children*, 26, 2:82-89.

Teaching in preschools: roles and goals. *Children*, 17, 2:42-48.

Bulletins and Technical Reports

State-of-the-art reporting at ERIC/ECE. Clearinghouse on Early Childhood Education, Urbana, Illinois, 31 pp.

KAULFERS, WALTER V., Professor

Articles

High school foreign language—developments and prospects. *The Educational Forum*, 34, 3:383-93.

Reviews

The teaching of foreign languages, by Peter F. Oliva. *Ibid.*, 2:266-67.

LANSING, KENNETH M., Professor

Articles

The research of Jean Piaget and its implications for art education. In *Educational implications of Piaget's theory*, ed. by Irene J. Athey and Duane O. Rubadeau, Ginn-Blaisdell, Waltham, Massachusetts, pp. 227-36.

LAVATELLI, CELIA B., Professor

Books

Piaget's theory applied to an early childhood curriculum. *American Science and Engineering*, Boston, 163 pp.

Teachers manual: early childhood curriculum. *Ibid.*, 93 pp.

With J. D. Bernard, L. S. Lavatelli, W. Crotty
Science: finding out. The Macmillan Co., New York, 168 pp.

Science: observing things. *Ibid.*, 120 pp.

Science: being curious. *Ibid.*, 245 pp.

Science: testing ideas. *Ibid.*, 376 pp.

Science: measuring things. *Ibid.*, 406 pp.

Science: comparing things. *Ibid.*, 343 pp.

Teachers annotated edition of Science: finding out. *Ibid.*, 111 pp.

Teachers annotated edition of Science: observing things. *Ibid.*, 96 pp.

Teachers annotated edition of Science: being curious. *Ibid.*, 147 pp.

Teachers annotated edition of Science: testing ideas. *Ibid.*, 201 pp.

Teachers annotated edition of Science: measuring things. *Ibid.*, 201 pp.

Teachers annotated edition of Science: comparing things. *Ibid.*, 172 pp.

Articles

An approach to language learning. *Young Children*, 24, 6:368-76.

Contrasting views of early childhood education. *Childhood Education*, 1970, February: 239-46.

LERCH, HAROLD H., Professor

Articles

Blocks to successful mathematics programs or how to insure failure by really trying. In *Teaching mathematics in the elementary school*, National Association of Elementary School Principals, NEA, and the National Council of Teachers of Mathematics, Washington, D.C., pp. 105-8.

Inservice programs in elementary mathematics. *Ibid.*, pp. 91-97.

What is a contemporary elementary mathematics program? *Ibid.*, pp. 13-17.

With F. D. Carver

A model for the evaluation of teacher education programs and some illustrative data. *Educational Leadership*, 27, 4:373-78.

LOEB, JANE W., Assistant Professor

Articles

Differences between retrieval cues in effectiveness as recall aids. *Psychonomic Science*, 30, 2:381-86.

With S. C. Davis, L. F. Robinson

A comparison of characteristics of Negro and white college freshman classmates. *Journal of Negro Education*, 39, 4:359-66.

With D. J. Mueller

The use of a scale of high schools in predicting college grades. *Educational and Psychological Measurement*, 30, 2:381-86.

LONG, THOMAS J., Assistant Professor

Articles

"Games" learners can play. *Illinois Teacher for Contemporary Roles*, 13, 4:180-90.

The elementary school counselor: counselor and consultant. *Illinois Guidance Personnel Association Quarterly*, 38, Fall:31-33.

MAEHR, MARTIN L., Professor

Articles

Concern of self and the reaction of others. In *Dynamic social psychology*, ed. by Dwight Dean, Random House, New York, pp. 1-7.

With W. M. Stallings, L. Wolf

Fear of failure and the pass-fail grading option. *The Journal of Experimental Education*, 38, 2:87-91.

With D. Stuenkel

Persistence as a function of conceptual development and quality of feedback. *Child Development*, 41, 4:1183-90.

Bulletins and Technical Reports

Effects of conceptual structure and social quality of feedback on persistence. CIRCE (Illinois Gifted Project), Urbana, Illinois, 11 pp.

Atkinson's theory of achievement motivation: first step toward a theory of academic motivation? *Ibid.*, 31 pp.

MAHAFFEY, ANNA, Assistant Professor

Articles

Changing technology will affect business curriculums. *Business Education Forum*, 25, 3:60-63.

Trends and developments in educating youth for office occupations in the future. *Illinois Teacher for Contemporary Roles*, 13, 3: 126-38.

MATHER, MARY E., Professor

Articles

Evaluation — more than tests. *Illinois Teacher for Contemporary Roles*, 13, 6:263-81.

MC GUIRE, CHRISTINE H., Professor

Articles

A diagnostic approach to evaluation in medical education. In *The university and the community of the future*, ed. by Perkins and Matthews, Faculty of Medicine, Dalhousie University, Halifax, Nova Scotia, pp. 7-9.

McLURE, WILLIAM C., Professor

See Educational Research, Bureau of.

MOORE, WALTER J., Professor

Articles

Current approaches to the teaching of reading. In *The teaching of reading*, ed. by DeBoer and Dallman, Holt, Rinehart and Winston, New York, pp. 554-88.

Teaching reading to children from culturally disadvantaged and non-English speaking homes. *Ibid.*, pp. 525-53.

MOSES, HAROLD A., Associate Professor

Articles

With D. J. Delaney

Dimensions of pressures faced by teachers: a factor analytic study. *SPATE Journal*, 8, 4:122-28.

Reviews

The vocational rehabilitation of the disabled: an overview, ed. by David Malikin and Herbert Rusalem. *Rehabilitation Research and Practice Review*, 1, 4:57-58.

O'BANION, TERRY U., Associate Professor

Books

With A. O'Connell

The shared journey: an introduction to encounter. Prentice Hall, Englewood Cliffs, New Jersey, 224 pp.

Articles

Organizations for student personnel workers. In *College student personnel: readings and bibliographies*, ed. by Johnson, Walter, and others, Houghton Mifflin, Boston, Massachusetts, pp. 376-79.

Functions of college and university student personnel workers. *College and University*, 45, 3:296-304.

With M. W. Schultz

Integrating pupil personnel services in our secondary schools. *Illinois Guidance Personnel Association Quarterly*, 38, Fall:9-17.

With A. S. Thurston, J. R. Gudden

Student personnel work: an emerging model. *Junior College Journal*, 41, 3:7-14.

OLSON, CARL J., Assistant Professor

Articles

The relative merits of objective essay and oral examinations and the special purposes

of each. *Indian Journal of Medical Education*, 8, 8:343-51.

With B. Huncke, S. H. LaRocca, J. Kopta

The orthopaedic training study — phase 2. *The Bulletin of the American Academy of Orthopaedic Surgeons*, 18, 1:12-14.

With I. Macnab, S. H. LaRocca

Value of pre-employment radiographic assessment of lumbar spine. *Canadian Medical Association Journal*, 101:383-88.

PANCRAZIO, JAMES J., Assistant Professor

Articles

A group experience — for what? *Journal of the Student Personnel Association for Teacher Education*, 8, 2:52-55.

With H. Ederle, H. V. Davis

A survey of the guidance services in the public schools of the fifth district of Illinois. *Illinois Guidance and Personnel Association Quarterly*, 36, Summer:2-8.

PATTERSON, CECIL H., Professor

Articles

Autobiography. In *Counseling and guidance in the twentieth century*, ed. by W. H. Van Hoose and J. J. Pietsofesa, Houghton Mifflin, Boston, Massachusetts, pp. 169-73.

A model for counseling and other interpersonal relationships. *Ibid.*, pp. 173-90.

The social responsibility of psychologists. *The Counseling Psychologists*, 1, 4:97-100.

Some notes on behavior theory, behavior therapy and behavioral counseling. *Ibid.*, pp. 44-56.

Power, prestige and the rehabilitation counselor. *Rehabilitation Research and Practice Review*, 1, 3:1-7.

With R. Mintz

Marriage and career attitudes of women in selected college curriculums. *Vocational Guidance Quarterly*, 17:213-17.

PESHKIN, ALAN, Professor

Books

The Kanuri school children: education and social mobilization in Nigeria. Holt, Rinehart, New York, 185 pp.

Articles

Education and modernism in Bornu. *Comparative Education Review*, 14, 3:283-300.

POWELL, WILLIAM R., Professor

Articles

Criteria for interpreting informal inventories. In *Reading diagnosis and evaluation*, ed. by Dorothy L. DeBoer, International Reading Association, Newark, Delaware, pp. 100-109.

Reviews

Teaching reading to individuals with learning difficulties, by Patrick Ashlock. *The Educational Forum*, 35, 1:128-29.

RAUBINGER, FREDERICK M., Professor

Articles

Public school enrollments in the 1970's. *Illinois School Board Journal*, 38, 3:1-10.

REZLER, AGNES G., Associate Professor

Articles

Characteristics of high school girl choosing traditional or pioneer vocations. In *Adolescent development*, ed. by Martin Gould and Elizabeth Douvan, Allyn and Bacon Inc., Boston, Massachusetts, pp. 269-73.

With E. K. Hudson, G. C. Feanagan
Medical clerkship in five different settings.
British Journal of Medical Education, 4,
2:130-37.

REIGEL, PAUL S., Assistant Professor and
Assistant Vice-Chancellor for
Administrative Affairs

Articles

Counseling for post-baccalaureate study. In
*College student personnel: readings and
bibliographies*, ed. by Fitzgerald, Johnson,
and Norris, Houghton-Mifflin Co., New
York, pp. 350-56.

ROSEMONT, HENRY, JR., Assistant
Professor

Articles

Is Zen Buddhism a philosophy? *Philosophy
East and West*, 20, 1:63-72.
The meaning is the use: Koan and Mondo as
linguistic tools of the Zen masters, *Ibid.*,
2:109-19.
Toward promoting faculty unrest. *Educational
Theory*, 20, 2:189-96.

ROSEN, SIDNEY, Professor

Articles

Experiment at Berkeley, by Joseph Tussman.
Journal of Research in Science Teaching,
7, 3:271-72.

ROSENSHINE, BARAK, Associate Professor
See Educational Research, Bureau of.

SANDERS, WALTER J., Senior Specialist in
Education

Books

With J. M. Phillips, T. Thoburn,
J. F. Fitzgerald
Developing mathematics, four. Macmillan,
New York, 388 pp.
Developing mathematics, five. *Ibid.*, 406 pp.
Developing mathematics, six. *Ibid.*, 406 pp.

SCANLAN, RICHARD T., Associate Professor

Articles

Computer assisted instruction in the humani-
ties. *Illinois Journal of Education*, 61, 2:
33-36.
It's superlegatus. *Quinto Lingo*, 8, 8-9:40L-
40R.

SERGIOVANNI, THOMAS J., Associate
Professor

Reviews

Administration and policy making in educa-
tion, by John Walton. *The Educational
Forum*, 34, 4:579.
Jackson County revisited, by Goldhammer and
Pellegrin. *Journal of Educational Adminis-
tration*, 8, 1:109-10.

SHORISH, M. MOBIN, Assistant Professor

Reviews

Towards a science of comparative education;
Scientific investigations in comparative educa-
tion, by Harold J. Noah and Max A.
Eckstein. *The Educational Forum*, 35, 1:
112-14.

SMITH, RALPH A., Associate Professor
See Educational Research, Bureau of.

SPODEK, BERNARD, Professor

Books

With D. Elkind, R. Gans, J. B. Macdonald,
V. R. Rogers
Open education. National Association for the

Education of Young Children, Washington,
D.C., 80 pp.

Articles

What are the sources of early childhood cur-
riculum? *Young Children*, 26, 1:10.

SREDL, HENRY J., Associate Professor

Books

With D. G. Lux, and others
The world of construction (fourth ed.).
McKnight and McKnight, Bloomington, Illi-
nois, 560 pp.

Articles

Occupational orientation at the elementary
level. *Illinois Teacher*, 13, 3:104-7.

SPITZE, HAZEL T., Associate Professor

Articles

Families in the brave new world. In Pro-
ceedings of the fortieth annual church and
community institute, Urbana, Illinois, Uni-
versity of Illinois, pp. 21-25.
The new home economics emphasizes nutrition.
Illinois Teacher, 14, 1:1-2, 6-20.
Putting nutrition on the line. *What's New in
Home Economics*, 1970, April:13-14.
Some keys to teaching the neediest. *Illinois
Teacher*, 13, 5:209-13.
Some aspects of teacher-student relations and
student achievement. *Ibid.*, pp. 221-26.
Adult education to strengthen families. *Ibid.*,
4:202-8.

Bulletins and Technical Reports

Choosing techniques for teaching and learn-
ing. NEA-Home Economics Education Asso-
ciation, Washington, D.C., 40 pp.

STEINMAN, WARREN M., Assistant
Professor

See Psychology.

TATSUOKA, MAURICE M., Professor

Articles

With R. B. Cattell
Linear equations for estimating a person's
occupational adjustment, based on informa-
tion on occupational profiles. *British Journal
of Educational Psychology*, 40, 3:324-34.

TOMLINSON, ROBERT M., Associate
Professor

Articles

Conceptual model for considering utilization
and education of medical laboratory per-
sonnel. *American Journal of Medical Tech-
nology*, 36, 2:67-74.
Health occupations. *Illinois Teacher*, 13, 3:
108-18.
Implications of (and reflections on) the vo-
cational education amendments of 1968.
Journal of Industrial Teacher Education,
7, 5:5-13.

TRAVERS, KENNETH J., Associate Professor

Articles

With J. Nievergelt
Computer education for secondary school
mathematics teachers. *SIGCSE Bulletin*, 2,
3:75-83.

Reviews

Report on an experiment with junior high
school very low achievers in mathematics,
by W. S. Devenney. *Investigations in
Mathematics Education*, 2, January:47-49.

WALKER, JERRY L., Professor

Books Edited

Pop/rock lyrics 2. Scholastic Book Services, New York, 96 pp.

Articles

Humanities: a question of values. In *Teaching the humanities*, ed. by Sheila Schwartz, Macmillan Co., London, pp. 32-36.

Humanities in a changing culture. In *Humanities programs today*, ed. by Richard Adler, Citation Press, New York, pp. 13-23.

WALKER, ROBERT W., Associate Professor

Bulletins and Technical Reports

A prevocational laboratory centered curriculum for rural disadvantaged youth—final report. Illinois Research Coordinating Unit, Board for Vocational Education and Rehabilitation, State of Illinois, Springfield, Illinois, 138 pp.

WARDROP, JAMES L., Assistant Professor

Bulletins and Technical Reports

With J. T. Hastings, D. D. Gooler

Evaluating geography courses: a model with illustrative applications. American Association of Geographers, Commission on College Geography, Washington, D.C., 79 pp.

WEST, CHARLES K., Associate Professor

Articles

With E. S. Wood

Academic pressures on public school students. *Educational Leadership* (Research Supplement), 3, 4:585-89.

With W. M. Stallings, E. K. Leslie, D. A. Bosshart

Comparative course attitudes of student teacher and non-student teacher groups. *Illinois School Research*, 7, 1:25-29.

WILLIAMS, DAVID L., Assistant Professor

Articles

Factors influencing the adoption of cooperative experience programs. *The Agricultural Education Magazine*, 42, 7:180.

Structured occupational experience—a part of in-service teacher education. *Ibid.*, 43, 6:157-58.

With G. D. Coil

In-service education for teachers of agricultural mechanics. *Ibid.*, 43, 1:20-21.

Service training program: result of cooperative planning. *Illinois Vocational Progress*, 27, 5:38-50.

Bulletins and Technical Reports

Handling products and personnel in agricultural firms—teaching source units for agricultural occupations other than farming. Division of Agricultural Education, University of Illinois, Urbana, 44 pp.

Community social behavior of families in an economically depressed rural area. *Ibid.*, 12 pp.

With L. J. Phipps, H. B. Thomas

A family centered vocationally oriented educational program for the rural disadvantaged. *Ibid.*, 287 pp.

Development of human resources through a vocationally oriented educational program for disadvantaged families in depressed rural areas. *Ibid.*, 680 pp.

Characteristics of disadvantaged families residing in depressed rural areas. *Ibid.*, 43 pp.

Educational program development for the rural disadvantaged. *Ibid.*, 51 pp.

Evaluation of an educational program for the rural disadvantaged. *Ibid.*, 106 pp.

Education for the rural disadvantaged: summary of findings and conclusions of an experimental study. *Ibid.*, 37 pp.

With L. J. Phipps, G. R. Fuller, H. B. Thomas

Socioeconomic aspects of family life in a depressed rural area. *Ibid.*, 58 pp.

WITTROCK, MERLIN C., Professor

Books Edited

With D. Wiley

Evaluation of instruction: issues and problems. Holt, Rinehart, and Winston, New York, 522 pp.

Articles

With S. J. Samuels

Word association strength and learning to read. *Journal of Educational Psychology*, 60:248-52.

Bulletins and Technical Reports

With M. H. Jones

Transfer of rules: the need for tests of transfer in the evaluation of instruction. Center for the Study of Evaluation, University of California, Los Angeles, 31 pp.

Reviews

The technology of teaching, by B. F. Skinner. *Educational Forum*, 34:131-36.

ZACCARIA, JOSEPH S., Associate Professor

Books

Theories of occupational choice and vocational development. Houghton Mifflin, New York, 188 pp.

ZWOYER, RUSSELL E., Principal Specialist

Books

With M. Beberman, M. Wolfe

Algebra 1, a modern course. D. C. Heath and Co., Lexington, Massachusetts, 547 pp.

Algebra 2, with trigonometry: a modern course. *Ibid.*, 562 pp.

DOCTORAL DISSERTATIONS

Ajzen, Rachel (C. H. Patterson, Adviser), Acceptance of counselor and client proposed solutions in directive and client-centered counseling situations.

Alsbrook, Eleanor Y. (J. S. Zaccaria, Adviser), Changes in the ethnocentrism of a select group of college students as a function of bibliotherapy.

Anderson, Edward T. (T. S. Baldwin, Adviser), The development of a battery of power tests to predict job performance of the blind.

Anderson, Thomas H. (R. H. Simpson, Adviser), Are a student's school-related behaviors dependent upon what is expected of him?

Araki, Charles T. (M. R. Sumption, Adviser), The tasks of public education in the state of Hawaii.

Ashenfelter, John W. (J. A. Easley, Jr., Adviser), Problems of beginning chemistry teachers in helping students draw conclusions from data—five case studies.

Auger, Terrance J. (W. J. Moore, Adviser), Some effects of peer evaluation on the performance of elementary education students.

Bers, Howard M. (V. Miller, Adviser), An investigation into financial aids practices in Illinois public junior colleges.

Bunker, Richard M. (J. H. Shores, Adviser), Student teachers' meanings of selected concepts related to teaching and the effects of

- pre-student teaching, field, and student teaching experiences.
- Burden, Carol N. (M. M. Ohlsen, Adviser), Children's inventoried preferences for occupational information.
- Burden, Larry (W. P. McLure, Adviser), Perceived administrative staff effectiveness in the use of group processes and the clarity of institutional goals in Illinois junior colleges.
- Bustard, John M. (J. H. Shores, Adviser), A study of selected factors associated with the political socialization of children.
- Campbell, David N. (W. O. Stanley, Adviser), A critical analysis of William Heard Kilpatrick's *The Montessori System Examined*.
- Chang, Ming C. (J. L. Walker, Adviser), A study of student teacher reactions to micro-teaching.
- Christie, Tasso G. (J. T. Hastings, Adviser), The effect of an institutional environment on low-actualizing students: a case study.
- Cole, Magnus J. A. (J. A. Easley, Adviser), Interest-initiated teaching of science at the junior secondary level in Sierra Leone.
- Cullers, Benjamin D. (M. R. Sumption, Adviser), Organizational management: public school superintendents and principals compared.
- Cunningham, Donald J. (R. C. Anderson, Adviser), The effects of the interpolation of several syntactic transformations on the recall and recognition of several component aspects of simple sentences.
- Curl, Gerald A. (R. S. Jones, Adviser), A comparison of freshman achievers and non-achievers from economically deprived families.
- Davis, Arthur Jr. (C. B. Cox, Adviser), An evaluation of the alternate teacher education program in the college of education.
- Davis, James R. (F. M. Raubinger, Adviser), The relationship between institutional control and college-community interaction in public associate degree-granting colleges.
- Davis, Samuel C. (M. R. Sumption, Adviser), Education, law, and the Negro.
- Delaney, Edmund T. (C. H. Patterson, Adviser), The effects of a group experience on the self-awareness of supervisor trainees and teacher trainees in supervision.
- Dilley, Clyde A. (K. B. Henderson, Adviser), A comparison of two methods of teaching long division.
- Dunkeld, Colin G. M. (W. R. Powell, Adviser), The validity of the informal reading inventory for the designation of instructional reading levels: a study of the relationships between children's gains in reading achievement and the difficulty of instructional materials.
- Eggers, Sharon W. (C. B. Lavatelli, Adviser), Modification of dependent and independent behavior in a classroom setting.
- Fink, Newton W. (M. R. Sumption, Adviser), Role expectations of the elementary principal and parent as perceived by elementary principals and parents of selected school-communities differing in racial composition.
- Frey, Diane E. (J. S. Zaccaria, Adviser), Client modeling influences on counselor behavior in a quasi-therapeutic situation.
- Gallagher, James E. (R. A. Evans, Adviser), A procedure for determining employers' perception of preferred work experience for new employees.
- Gehring, Glenn S. (R. A. Evans, Adviser), A suggested curriculum to educate managers for small service businesses.
- Gillis, Arthur L. (W. P. McLure, Adviser), The staffing of non-teaching professionals in relation to selected variables in five states.
- Grandey, Robert C. (R. W. Burnett, Adviser), An investigation of the use of computer-aided instruction in teaching students how to solve selected multistep general chemistry problems.
- Grant, Sallie J. (C. H. Patterson, Adviser), The effects of a basic encounter group experience on supervision by supervisor trainees.
- Gray, Rose M. G. (C. H. Patterson, Adviser), Effects of two heartbeat sound rates on child performance of selected tasks.
- Griffiths, Richard W. (J. M. Atkin, Adviser), An evaluation of the efficacy of a combined content and methods course in physical science for students in elementary education.
- Hackett, Bessie D. (E. Simpson, Adviser), Job analyses of homemaking by selected groups of homemakers and home economics teachers.
- Haider, Santosh J. (C. H. Patterson, Adviser), Parental attitudes and child-rearing practices as related to academic underachievement.
- Hanson, Robert K. (R. W. Burnett, Adviser), A comparison of the alternate theories formed by students in the classroom and those held by student teachers.
- Harris, Robert C. (T. S. Baldwin, Adviser), The classification of achievement test items by cognitive factor definitions for selected standardized trade tests.
- Haught, Evelyn H. (J. L. Walker, Adviser), Students' patterns of thinking in teacher-led large group discussions and student-led small group discussions of literature.
- Hecht, Alfred R. (R. W. Burnett, Adviser), A semantic differential evaluation of attitudinal outcomes of introductory physical science.
- Helwig, Carol M. (F. P. Barnes, Adviser), The influence of learnings in classroom research techniques on student teachers' practices and attitudes.
- Henrikson, Harold A. (B. Spodek, Adviser), An investigation of the influence of teacher expectation upon the intellectual and achievement performance of disadvantaged kindergarten children.
- Heuser, Kenneth H. (V. Miller, Adviser), A study of factors of satisfaction and dissatisfaction of selected high school students.
- Himmel, Clark E. (G. M. Blair, Adviser), A critical review and analysis of self-directed learning methods utilized in the teaching of undergraduate psychology courses.
- Holland, Paul L. (C. H. Patterson, Adviser), A study of factors predictive of persistence in the parish ministry of United Presbyterian clergymen.
- Hubele, Glen E. (M. M. Ohlsen, Adviser), An investigation of personality characteristics of counselors, administrators, teachers, and "non-helping" professionals.
- Hughes, Clarence R. (F. M. Raubinger, Adviser), A survey of student satisfaction within selected Illinois high schools as related to student activism.
- Huinker, Arthur T. (J. S. Zaccaria, Adviser), The development, application and evaluation of a model plan for conducting follow-up studies of former students in community colleges.
- Jefferies, Doris (C. H. Patterson, Adviser), Empathic understanding in Black and white children.
- Jenkins, Edward S. (J. A. Easley, Jr., Adviser), Problems of beginning chemistry teachers: a case study approach.

- Johnson, Henry C., Jr. (W. O. Stanley, Adviser), The preparation of teachers as a university function: the case of the University of Illinois.
- Joley, Charles L. (V. Miller, Adviser), Multi-purpose regional title III ESEA centers in Illinois: 1967-69.
- Kelly, Bruce B. (R. S. Jones, Adviser), An analysis of various types of financial aid and academic achievement at the University of Illinois.
- Kennedy, Larry D. (W. J. Moore, Adviser), Linguistics and the language arts.
- Kirk, Leonard J., Jr. (J. S. Zaccaria, Adviser), The etiology and dynamics of the masochistic syndrome with implications for pastoral counseling.
- Knaupp, Jonathan E. (H. H. Lerch, Adviser), A study of achievement and attitude of second grade students using two modes of instruction and two manipulative models for the numeration system.
- Kolesnik, Theodore S. (F. P. Barnes, Adviser), Changes in meanings following instruction on selected topics in sex education in the intermediate grades in school district 73½, Skokie, Illinois.
- Kolmos, Alfred S. (J. H. Shores, Adviser), Effects of instructional media in teaching beginning statistics.
- Lee, Jasper S. (L. J. Phipps, Adviser), Vocational education instruction similarities in certain content areas in the secondary schools.
- Lockwood, James R. (K. B. Henderson, Adviser), An analysis of teacher-questioning in mathematics classrooms.
- Marshall, William J. A. (S. P. Quigley, Adviser), Investigating the effect of contextual constraint on deaf and hearing children at the fourth grade reading level, using the Cloze procedure.
- Martin, Waldo D. (T. S. Baldwin, Adviser), The identification of occupational areas for emphasis in vocational education program planning.
- Mondeh, Renner E. (L. J. Phipps, Adviser), Functional vocational and technical education in agriculture for Sierra Leone.
- Moore, Barry E. (J. H. Shores, Adviser), A description of children's verbal responses to works of art in selected grades one through twelve.
- Mulcahy, Daniel G. (H. S. Broudy, Adviser), Newman's theory of a liberal education: a critique.
- O'Bryant, David C. (J. Stern, Adviser), Evaluation of a two-week summer orientation program in engineering for inner-city Black high school students.
- Osthoft, Freda I. (C. H. Patterson, Adviser), Accurate empathy in helping professional trainees as related to reading experiences.
- Patterson, Stanley D. (L. J. Phipps, Adviser), An analysis of costs and benefits to students for technical agribusiness education.
- Pease, David W., Jr. (W. V. Kaulfers, Adviser), Independent study of German and Spanish in high school: an experiment in individualized self-instruction.
- Peterson, Adrian G. (J. S. Zaccaria, Adviser), The college advisement survey: an inventory of student perceptions of college advisement.
- Peterson, John V. (M. M. Ohlsen, Adviser), Differential responses of counselor and teacher trainees to video taped segments of student problems.
- Pino, Jacobo F. (S. P. Quigley, Adviser), Employer ratings of the suitability of certain occupations for deaf persons and the vocational status of deaf employees in certain industries.
- Plain, Thomas A. (F. M. Raubinger, Adviser), Differing priority concepts related to negotiability in selected Chicago elementary schools.
- Pohl, Rudolph G. (R. A. Henderson, Adviser), Teacher nomination of intellectually gifted children in the primary grades.
- Quiton, Vicente A. (L. J. Phipps, Adviser), Socioeconomic factors related to the morale of adults in an economically disadvantaged rural area.
- Royer, James M. (R. C. Anderson, Adviser), Retroactive inhibition in free recall: a storage location hypothesis.
- Rumbaugh, Stanley A. (W. P. McLure, Adviser), A study of correlates of need for additional instructional space in selected public school districts in five states.
- Runchey, Kathleen (R. H. Henderson, Adviser), A comparison of oddity problem and clustered problem approaches to training semantic generalization in educable children.
- Rutschmann, Donald F. (C. H. Patterson, Adviser), Affective versus cognitive groups with pre-college blind youth.
- Samson, Donald E. (M. L. Maehr, Adviser), An investigation of the effects of external and internal evaluation upon motivation.
- Schiamberg, Lawrence B. (G. M. Blair, Adviser), An exploratory study of adolescent alienation: an examination of selected theories and research.
- Schmidt, Monica M. (C. H. Patterson, Adviser), Effects of group interaction on the self-perceptions of women in religious life.
- Searson, Thomas E. (C. H. Patterson, Adviser), The effect of standardized ability test score interpretation upon selected self-perceptions of students.
- Sinhaseni, Sermchitr (W. F. Marauardt, Adviser), Criteria for selecting literary works written in English by Americans for teaching Thai senior high school students to communicate effectively in English with Americans.
- Sister Fellin, Jo Ann (K. B. Henderson, Adviser), An historical and comparative study concerned with the unsolvability of the word problem for groups.
- Smith, Kathryn W. (E. Simpson, Adviser), A study of federal legislation relevant to home economics education.
- Smith, Stanley S. (F. M. Raubinger, Adviser), Some effects of collective negotiations on principal-staff relationships as perceived by the secondary school principals in Illinois.
- Stevens, Helen L. (M. M. Ohlsen, Adviser), The validation of the sociometric test for counselor education students.
- Stinson, Lillian P. (J. H. Shores, Adviser), Teaching a reading-study skills program at the sixth grade level.
- Sullivan, Zola J. (W. J. Moore, Adviser), Factors that affect the teaching-learning process of culturally different students in sixth grade social studies.
- Sutton, Wayne M. (M. R. Sumption, Adviser), Year round education in the public schools.
- Tausig, Carl M., Jr. (J. H. Shores, Adviser), The effects of directive-individualized instruction upon reading achievement and locus of control.

Thayer, Louis C. (M. M. Ohlsen, Adviser), A comparison of counselor-trainee responses to various audio-video taped simulation procedures.

Unks, Gerald (L. E. Metcalf, Adviser), Academic freedom in social studies teaching: an Illinois study.

Van Hooft, Gordon E. (J. M. Atkin, Adviser), Factors associated with the adoption of new science courses in New York state high schools.

Vernon, Edwin W. (L. J. Phipps, Adviser), Communications as a factor in agriculture occupations employment.

Walker, Jeanne M. (C. H. Patterson, Adviser), The effect of client race on the level of empathy of white counselor-trainees.

Wallace, Robert C. (R. W. Burnett, Adviser), Sex education knowledge, verbal interaction, and attitudes: an exploratory study in high school human biology classes.

Watts, Graeme H. (R. C. Anderson, Adviser), Learning from prose material: effects of verbatim and "application" questions on retention.

Whalley, Judi K. (R. S. Jones, Adviser), The effect of reinforcement contingencies indigenous to college classrooms.

White, Conrad L. (T. S. Baldwin, Adviser), The effects of ability and practice patterns on learning a perceptual-motor task.

Wickersham, Philip H. (W. J. Moore, Adviser), Classroom interaction patterns: differential effects and relationships between sixth-grade children's self concepts and locus of control of reinforcements.

Wilken, Raymond E. (H. S. Broudy, Adviser), The relation of Polanyi's theory of personal knowledge to the teaching of biology.

Williams, Donnie G. (V. Miller, Adviser), Financing the interim period between levy and collection of property taxes in unit school districts of Illinois.

Williams, Julia A. M. (M. L. Maehr, Adviser), Sex role conflict and academic achievement: a study of superior women students.

Wright, Elmer, Jr. (L. J. Phipps, Adviser), Levels of interest in ornamental horticulture of different ethnic groups.

Yawkey, Thomas D. (J. H. Shores, Adviser), A test of Piaget's notions of conservation of number on tasks of inequality.

Zbinden, William R. (R. A. Henderson, Adviser), Psycholinguistic and perceptual correlates of spelling in educable mentally handicapped children.

EDUCATIONAL RESEARCH, BUREAU OF

BURNETT, JACQUETTA H., Associate Professor

Articles

Culture of the school: a construct for research and explanation in education. *Council on Anthropology and Education Newsletter*, 1, 1:2-13.

With P. Sindell

Anthropological approaches to the study of education; methodology of educational research. *Review of Educational Research*, 39, 5:593-606.

EVANS, RUPERT N., Professor

Articles

Education in the seventies. In *Needs of elementary and secondary education for the*

seventies: a compendium of policy papers, General Subcommittee on Education of the Committee on Education and Labor, House of Representatives, Ninety-first Congress, U.S. Government Printing Office, Washington, D.C., pp. 186-90.

How do they exit from your program? *School Shop*, 29, 10:23-24.

Training time and placement time in vocational education. *American Vocational Journal*, 45, 3:16-18.

McLURE, WILLIAM P., Professor

Books

With A. M. Pence

Early childhood and basic elementary and secondary education: needs, programs, demands, costs. University of Illinois Press, Urbana-Champaign, 174 pp.

Articles

Requirements of American education in the seventies. In *Needs of elementary and secondary education for the seventies*, General Subcommittee on Education of the Committee on Education and Labor, House of Representatives, Ninety-first Congress, First Session, U.S. Government Printing Office, Washington, D.C., pp. 578-83.

ROSENSHINE, BARAK, Associate Professor

Articles

Some criteria for evaluating category systems: an application to the topic category system. In *Classroom observation: AERA Monograph No. 6*, ed. by Robert E. Stake, Rand McNally and Co., Chicago, pp. 109-25.

Enthusiastic teaching: a research review. *School Review*, 78, 4:499-514.

Evaluation of classroom instruction. *Review of Educational Research*, 40, 2:279-301.

Experimental classroom studies of indirect teaching. *Classroom Interaction Newsletter*, 5, 2:5-11.

Horses and trains. *Educational Researcher*, 21, 10:6.

Interaction analysis: a comment. *Phi Delta Kappan*, 33, 4:445-46.

The stability of teacher effects upon student achievement. *Review of Educational Research*, 40, 5:647-63.

Bulletins and Technical Reports

Interpretative study of teaching behaviors related to student achievement, USOE Report 9-B-010, Temple University, Philadelphia, Pennsylvania, 153 pp.

Teaching behaviors and student achievement. International Association for the evaluation of Educational Achievement, Stockholm, Sweden, 110 pp.

SMITH, RALPH A., Associate Professor

Books Edited

Aesthetic concepts and education. University of Illinois Press, Urbana, 455 pp.

Articles

The liberal tradition and art education. In *Concepts in art education*, ed. by George Pappas, The Macmillan Co., New York, pp. 220-29.

Aesthetics and humanities education. In *Teaching the humanities: selected readings*, ed. by Sheila Schwartz, The Macmillan Co., New York, pp. 53-69.

Psychology and aesthetic education. *Studies in Art Education*, 2, 3:20-30.

Art and aesthetic statesmanship in American education. *Art Education*, 23, 6:13-15.

The future of highly selective industries in Japan. *Business and Management (Japan)*, 22, 261:23-26.

An educator looks at industrial and educational growth. *The Educational Forum*, 35, 1:15-23.

The future and aesthetic education. *Journal of Aesthetic Education*, 4, 1:5-11.

Art, pornography, and aesthetic experience. *Ibid.*, 3:5-8.

Spaceship earth and aesthetic education. *Ibid.*, 4:5-8.

With C. M. Smith

Aesthetics and environmental education. *Ibid.*, 4:125-40.

Justifying aesthetic education. *Ibid.*, 2:37-51.

ELECTRICAL ENGINEERING

ADES, HARLOW W., Professor

Articles

With H. Engstrom, G. Bredberg

Normal structure of the organ of corti and the effect of noise-induced cochlear damage. In *Sensorineural hearing loss (a CIBA Foundation symposium)*, ed. by Wolstenholme and Knight, J. & A. Churchill, London, pp. 127-56.

With G. Bredberg, H. H. Lindeman, R. West, H. Engstrom

Scanning electron microscopy of the organ of corti. *Science*, 170, 3961:861-63.

AKITT, DONALD P., Associate Professor

Articles

With J. T. Yardley

Far-infrared emission in gas discharges containing boron trihalides. *IEEE Journal of Quantum Electronics*, QE-6, 2:113-16.

With C. J. Johnson, P. D. Coleman

Nonlinear susceptibility of CdTe. *Ibid.*, 8: 496-99.

ASHBY, W. ROSS, Professor

Articles

Energy and signal. *The International Journal of Neuroscience*, 1, 2:95-98.

BOWHILL, SIDNEY A., Professor

Articles

Ionospheric effects in solar eclipses. In *Solar eclipses and the ionosphere*, ed. by M. Anastassiadis, Plenum Press, New York, pp. 3-17.

Concluding statements at 1969 Eclipse Symposium in Athens, Greece. *Ibid.*, pp. 301-3.

Review on ionosphere. In *Space research X*, ed. by T. M. Donahue, P. A. Smith, L. Thomas, North-Holland Publishing Co., Amsterdam, pp. 681-88.

With R. J. Cicerone

Photoelectron escape fluxes obtained by a Monte Carlo technique. *Radio Science*, 5, 1:49-53.

With L. G. Smith, K. Hirao, T. Muraoka, J. C. Ulwick, and others

Electron density and temperature measurements in the ionosphere. *Annals of the IQSY*, 6, Paper no. 19, pp. 303-16.

BURTNESS, ROGER W., Associate Professor

Articles

With F. A. Green

The determination of coil currents in traction

motors during commutation. *IEEE Transactions on Power Apparatus and Systems*, PAS-89, 5:716-23.

CHEN, JIM C., Assistant Professor

See Coordinated Science Laboratory.

CHERRINGTON, BLAKE E., Associate Professor

Bulletins and Technical Reports

With L. A. Schlie, J. T. Verdeyen, E. Wisniewski

Behavior of neon ls atoms in He-Ne active discharges. Aerospace Research Laboratories, AFSC, USAF, Wright-Patterson AFB, Ohio, 95 pp.

CHIEN, ROBERT T., Professor

See Coordinated Science Laboratory.

COLEMAN, PAUL D., Professor

Articles

Optical properties of far IR materials. *Proceedings of the symposium on submillimeter waves*, ed. by Jerome Fox, Polytechnic Press, New York, pp. 500-508.

With G. Hubner

The SO₂ submillimeter laser. *Ibid.*, pp. 200-210.

With S. I. Green

The MOM electric tunneling detector. *Ibid.*, pp. 390-402.

With G. H. Sherman

Far infrared second harmonic generation and mixing in Te. *Ibid.*, pp. 420-32.

With C. F. Wittig, J. C. Hassler

Constant-wave oscillation in a carbon monoxide chemical laser. *Nature*, 226, 5248: 845-46.

Collisionally induced lasing in CO₂ and N₂O using vibrationally excited CO. *IEEE Journal of Quantum Electronics*, QE-6, 11:754-56.

Carbon monoxide chemical laser utilizing a fast flow system. *Applied Physics Letters*, 16, 3:117-18.

With D. P. Akitt, C. J. Johnson

Nonlinear susceptibility of CdTe. *IEEE Journal of Quantum Electronics*, QE-6, 8:496-99.

COOPER, DUANE H., Associate Professor

Articles

Time-division multiplex for four-channel FM. *Journal of the Audio Engineering Society*, 18, 2:198.

CROWLEY, JOSEPH M., Assistant Professor

Articles

Geometrical limitations in plasma feedback systems. In *Feedback and dynamic control of plasmas*, ed. by Chu and Hendel, American Institute of Physics, New York, pp. 12-16.

With C. D. Hendricks

Electrohydrodynamic processes in electric field spraying of liquids. In *1969 Proceedings of the IUTAM international symposium on electrohydrodynamics*, Massachusetts Institute of Technology, Cambridge, Massachusetts, p. 177.

With D. S. Zrnic, C. D. Hendricks

Control of an instability on the fluid pendulum with magnetic feedback. *Physics of Fluids*, 13, 7:1875-77.

CRUZ, JOSE B., JR., Professor
See Coordinated Science Laboratory.

DESCHAMPS, GEORGES A., Professor
Articles

Exterior differential forms. In *Mathematics applied to physics*, ed. by E. Roubine, Springer-Verlag and UNESCO, Berlin, Heidelberg, New York, 50 pp.

DIPERT, ARNOLD W., Assistant Professor

Articles

With K. Asano, C. D. Hendricks

A note on the uniform field approximation when guard rings are used. *American Journal of Physics*, 38, 12:1452-54.

DUNN, FLOYD, Professor

Articles

With S. A. Hawley

Ultrasonic relaxation spectra in aqueous solutions of dextran and polyethylene glycol. *Journal of Chemical Physics*, 52, 10:5497-98.

With L. W. Kessler

Further remarks on the ultrasonic properties of bovine serum albumin solutions. *Journal of Physical Chemistry*, 74, 13:2736.

With L. W. Kessler, W. O. O'Brien, Jr.

Ultrasonic absorption in aqueous solutions of polyethylene glycol. *Ibid.*, 23:4096-4102.

With F. J. Fry, G. Kossoff, R. C. Eggleton

Threshold ultrasonic dosages for structural changes in mammalian brain. *Journal of Acoustical Society of America*, 48, 6:1413-17.

Reviews

Physical principles of ultrasonic diagnosis, by P. N. T. Wells. *Ibid.*, 4(Part 1):867.

ERNST, EDWARD W., Professor

Articles

Laboratory oriented studies. In *The Britannica review of developments in engineering education*, ed. by N. A. Hall, Encyclopaedia Britannica, Inc., Chicago, chapter 5, pp. 109-35.

Self-instruction in the laboratory. *Engineering Education*, 60, 9:879-80.

FLAHERTY, BERNARD J., Senior Research Engineer

Articles

With L. M. Paul, K. C. Yeh

Measurement of irregularity heights by the spaced receiver technique. *Radio Science*, 5, 6:967-73.

With H. R. Cho, K. C. Yeh

Response of the F-region ionosphere to a solar eclipse. *Nature*, 226, 5251:1121-23.

With K. C. Yeh, G. W. Swenson, Jr.

A proposal for absolute electron content determination by using a geostationary satellite. In *Proceedings of the symposium on the future application of satellite beacon experiments*, ed. by W. Dieminger and G. K. Hartmann, Max-Planck Institute for Aeronomy, D-3411 Linden/Harz, W. Germany, pp. 40-41.

FRY, FRANCIS J., Associate Professor

Articles

Ultrasonic visualization of ultrasonically produced lesions in brain. *Confinia Neurologica*, 32:38-52.

Ultrasonic visualization of human brain structure. *Investigative Radiology*, 5, 2:117-21.

With R. F. Heimburger, L. V. Gibbons, R. C. Eggleton

Ultrasound for visualization and modification of brain tissue. *IEEE Journal of Sonics and Ultrasonics*, SU-17, 3:165-69.

With G. Kossoff, R. C. Eggleton, F. Dunn

Threshold ultrasonic dosages for structural changes in mammalian brain. *Journal of Acoustical Society of America*, 48, 6:1413-17.

GADDY, OSCAR L., Professor

Articles

With G. W. Day, K. C. Jungling

Electrooptic Q-switching of the CO₂ laser. *IEEE Journal of Quantum Electronics*, QE-6, 9:553-56.

With K. C. Jungling, R. J. Turnbull,

G. W. Day
Reduction of CO₂ laser induced thermal lensing in CS₂ with a d.c. electric field. *Ibid.*, 11:669-72.

With D. J. Leverenz

Subnanosecond gating properties of the dynamic crossed-field photomultiplier. *Proceedings of the IEEE*, 58, 10:1487-90.

With B. Contreras

Nanosecond response time room temperature infrared detection with thin film bolometers. *Applied Physics Letters*, 17, 10:450-53.

With K. C. Jungling

Intensity induced infrared absorption in CS₂ near 10 μ m. *Journal of Applied Physics*, 41, 13:5352-54.

GELLER, MARVIN A., Assistant Professor

See Atmospheric Research Laboratory.

GUNTHER, GOTTHARD, Professor

Bulletins and Technical Reports

Natural numbers in transclassic systems. BCL 3.4, Electrical Engineering Department, University of Illinois, Urbana, 44 pp.

HADDAD, ABRAHAM H., Associate Professor

See Coordinated Science Laboratory.

HANDLER, PAUL, Professor

See Physics.

HASSLER, JOHN C., Research Associate

Articles

With C. Wittig, P. D. Coleman

A carbon monoxide chemical laser utilizing a fast flow system. *Applied Physics Letters*, 16, 3:117-18.

Constant-wave laser oscillation in a carbon monoxide chemical laser. *Nature*, 226, 5248:845-46.

Collisionally induced lasing in CO₂ and N₂O using vibrationally excited CO. *IEEE Journal of Quantum Electronics*, QE-6, 11: 754-56.

HENDRICKS, CHARLES D., JR., Professor

Articles

With S. B. Sample, B. Raghupathy

Quiescent distortion and resonant oscillations of a liquid drop in an electric field. *International Journal of Engineering Science*, 8, 1:97-109.

With D. S. Zrnic

Stabilization of the Rayleigh-Taylor instability

- with magnetic feedback. *Physics of Fluids*, 13, 3:618-29.
- With D. S. Zrnicek, J. M. Crowley
Control of an instability on the fluid pendulum with magnetic feedback. *Ibid.*, 7:1875-77.
- With A. W. Dipert, K. Asano
A note on the uniform field approximation when guard rings are used. *American Journal of Physics*, 38, 12:1452-54.
- HOLONYAK, NICK, JR., Professor**
- Books Edited**
- Integrated electronic systems, by staff members of Westinghouse Defense and Space Center, Solid State Physical Electronics Series, Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 472 pp.
- The growth of single crystals, by R. A. Laudise, *Ibid.*, 352 pp.
- Articles**
- With M. M. Blouke, B. G. Streetman, H. R. Zwicker
Solid solubility of Zn in Si. *Journal of Physics and Chemistry of Solids*, 31, 1:173-77.
- With J. A. Rossi, D. L. Keune, P. D. Dapkus, R. D. Burnham
Threshold requirements and carrier interaction effects in GaAs platelet lasers (77°K). *Journal of Applied Physics*, 41, 1:312-20.
- With D. L. Keune, R. D. Burnham, P. D. Dapkus, R. D. Dupuis
A thin semiconductor laser to thin platelet optical coupler. *Applied Physics Letters*, 16, 1:18-20.
- With R. D. Burnham, P. D. Dapkus, D. L. Keune, H. R. Zwicker
GaAs junction lasers containing the amphoteric dopants Ge and Si. *Solid-State Electronics*, 13, 2:199-205.
- With M. M. Blouke, B. G. Streetman, H. R. Zwicker
Current oscillations in Zn-doped Si p-i-n diodes. *Ibid.*, 3:337-45.
- With M. G. Craford, A. H. Herzog, D. L. Keune
Long lifetime (laser) states in p-type GaAs: Si. *Journal of Applied Physics*, 41, 6:2648-51.
- With P. D. Dapkus, R. D. Burnham, D. L. Keune
Direct observation of a dynamic Burstein shift in a platelet laser. *Ibid.*, 3:93-95.
- Stimulated emission in lossy semiconductor laser diodes. *Ibid.*, pp. 2725-27.
- Spontaneous and stimulated carrier lifetime and the spectral output of CdSe (77°K). *Applied Physics Letters*, 17, 1:42-45.
- Near-band gap, narrow-spectrum, low-loss, volume-excited GaAs laser (77°K) with time-uniform output. *Journal of Applied Physics*, 41, 13:5215-17.
- With D. L. Keune, R. D. Burnham, C. B. Duke
Photosensitive impurity-assisted tunneling (Au, 77°K) in GaAs tunnel diodes. *Physical Review Letters*, 24, 11:589-91.
- With P. D. Dapkus, R. D. Burnham, D. L. Keune, J. W. Burd, and others
Spontaneous and stimulated carrier lifetime (77°K) in a high-purity, surface-free GaAs epitaxial layer. *Journal of Applied Physics*, 41, 10:4194-99.
- With H. R. Zwicker, B. G. Streetman, A. M. Andrews
Double injection in semiconductors with multivalent trapping centers. *Journal of Applied Physics*, 41, 11:4697-4710.
- With C. B. Duke, A. M. Andrews, R. D. Burnham, H. W. Korb
Photosensitive impurity-assisted tunneling in GaAs. In *Proceedings of the 1970 summer school on tunneling phenomena in solids*, Anglet, France.
- With C. B. Duke, G. G. Kleiman, A. M. Andrews, R. D. Burnham, H. W. Korb
Tunneling mechanisms, trap states and zero-bias effects in III-V tunnel diodes. In *Tenth conference on physics of semiconductors, August 1970, Boston, U.S. Atomic Energy Commission*, pp. 856-61.
- With R. D. Burnham, D. L. Keune, D. R. Scifres, P. D. Dapkus
Stimulated emission in In_xGa_{1-x}P. *Applied Physics Letters*, 17, 10:430-32.
- With R. D. Burnham, D. R. Scifres
Al_xGa_{1-x}As_{1-y}P_y-GaAs_{1-y}P_y heterostructure laser and lamp junctions. *Ibid.*, pp. 455-57.
- HOLSHOUSER, DON F., Professor**
- Articles**
- With R. W. Uhlhorn
Cross-correlation detection of subnanosecond optical pulses. *IEEE Journal of Quantum Electronics*, QE-6, 12:775-82.
- HUDSON, PAUL K., Associate Professor**
- Articles**
- An interpretative historical outline. *The Bridge (Eta Kappa Nu)*, 66, 4:9-16.
- Itoh, TATSUO, Research Associate**
- Articles**
- With R. Mittra
Wood anomalies in diffraction from strip grating. *IEEE Transactions on Microwave Theory and Techniques*, MTT-18, 1:54-55.
- Charge and potential distributions in shielded striplines. *Ibid.*, 3:149-56.
- JOHNSON, ROGER L., Assistant Professor**
- See Coordinated Science Laboratory.
- JORDAN, EDWARD C., Professor and Head of Department**
- Articles**
- The John T. Bolljahn Memorial Award. *IEEE Transactions on Antennas and Propagation*, AP-18, 3:308.
- KOKOTOVIC, PETAR V., Professor**
- See Coordinated Science Laboratory.
- KUO, BENJAMIN C., Professor**
- Books**
- Discrete-data control systems. Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 399 pp.
- Articles**
- With S. M. Melzer
The optimal regulation of a string of moving vehicles through difference equations. In *Proceedings of joint automatic control conference*, Atlanta, Georgia, The Institute of Electrical and Electronics Engineers, Inc., New York, pp. 175-80.
- LEE, SHUNG-WU, Associate Professor**
- Articles**
- A ray theory of diffraction by open-ended waveguides, I: Field in waveguides. *Journal of Mathematical Physics*, 11, 9:2830-50.

With R. Mittra

On the solution of a generalized Wiener-Hopf equation. *Ibid.*, 3:775-83.

With N. Wong, R. Tang

Analysis of infinite planar array of rectangular waveguides by generalized scattering matrix approach. *Phased-Array Antenna Symposium*, Polytechnic Institute of Brooklyn, New York, pp. 40-44.

Multimode phased array element for wide scan angle impedance matching. *Ibid.*, pp. 66-69.

LINDEMAN, HENRIK H., Visiting Research Associate

Articles

With G. Bredberg, H. W. Ades, R. West, H. Engström

Scanning electron microscopy of the organ of corti. *Science*, 170, 3961:861-63.

LIU, CHAO-HAN, Associate Professor

Articles

Ducting of acoustic-gravity waves in the atmosphere with spatially periodic wind shears. *Journal of Geophysical Research*, 75:1339-41.

Propagation of acoustic-gravity waves in a turbulent atmosphere. *Annales de Géophysique*, 26, 1:35-41.

Long wavelength ion-acoustic waves in a magneto-plasma in a gravitational field. *Journal of Plasma Physics*, 4, 3:617-27.

With K. C. Yeh

On resonant interactions of acoustic-gravity waves. *Radio Science*, 5, 1:39-48.

With M. Youakim

Propagation of coherent waves in a warm turbulent magneto-plasma. *Ibid.*, 4:757-65.

LO, YUEN T., Professor

Articles

With J. H. Bruning

Multiple scattering by spheres. In *Proceedings of the fourth colloquium on microwave communication*, ed. by G. Bognar, Akademiai Kiado, Budapest, pp. ET5/1-11.

A review of the theory of random arrays with some recent results. *Ibid.*, ET17/1-11.

With M. J. Al-Hakkak

Circular waveguide with anisotropic walls. *Electronics Letters*, 6, 24:786-89.

MAYEDA, WATARU, Professor

See Coordinated Science Laboratory.

MECHTLY, EUGENE A., Associate Professor

Articles

With L. G. Smith

Changes of lower ionosphere electron densities with solar zenith angle. *Radio Science*, 5, 12:1407-12.

MERKELO, HENRY, Associate Professor

Articles

With J. H. Hammond, S. R. Hartman, Z. I. Derzko

Measurement of the temperature dependence of depolarization time of luminescence. *Journal of Luminescence*, 1, 2:502-12.

Bulletins and Technical Reports

Study of infrared sensitivity of recombination light for device applications. University of Illinois, Urbana, 35 pp.

MILEY, GEORGE H., Professor

See Nuclear Engineering.

MITTRA, RAJ, Professor

Articles

Loop impedance in magnetoplasma: theory and experiment. *Radio Science*, 5, 1:81-94.

With T. Itoh

Wood anomalies in diffraction from strip grating. *IEEE Transactions on Microwave Theory and Techniques*, MTT-18, 1:54-55.

Charge and potential distributions in shielded striplines. *Ibid.*, MTT-18, 3:149-56.

With S. M. Daniel

An optimal solution to a scatter problem. *Proceedings of the IEEE*, 58, 2:270-71.

With J. L. Richardson

A numerical technique for solving a class of open-region radiation and scattering problems. *Ibid.*, pp. 276-78.

With S. W. Lee

On the solution of a generalized Wiener-Hopf equation. *Journal of Mathematical Physics*, 11, 3:775-83.

With D. J. Stigliani Jr., R. G. Simonin

Particle size measurement using forward scattering holography. *Journal of Optical Society of America*, 60, 8:1059-67.

With W. A. Imbriale

The two-dimensional inverse scattering problem. *IEEE Transactions on Antennas and Propagation*, 18, 5:633-42.

MUROGA, SABURO, Professor

See Computer Science.

NARAYANO, RAO, N., Associate Professor

Articles

With K. C. Yeh, M. Y. Youakim

Ionospheric electron content at temperate latitudes during the increasing phase of the solar cycle. *Australian Journal of Physics*, 23, 1:37-43.

With L. T. Hamrick

Simulation and analysis of Faraday rotation of beacon satellite signals in the presence of traveling ionospheric disturbances. *Radio Science*, 5, 6:907-12.

NEAL, JAMES P., Associate Professor

Articles

Cooperative instruction in a multisection laboratory course. *IEEE Transactions on Education*, E-13, 1:9-10.

O'BRIEN, WILLIAM D., JR., Research Associate

Articles

With L. W. Kessler, F. Dunn

Ultrasonic absorption in aqueous solutions of polyethylene glycol. *Journal of Physical Chemistry*, 74, 23:4096-4102.

PERKINS, WILLIAM R., Professor

See Coordinated Science Laboratory.

POPPEBAUM, WOLFGANG J., Professor

See Computer Science.

PAINE, ELLERY, Professor Emeritus

Articles

Pure water. In *Letters from Ellery. The Bridge* (Eta Kappa Nu), 66, 2:26-27.

Remainder arithmetic. *Ibid.*, 3:20-21.

The ancestor problem. *Ibid.*, 4:17.

Minie balls. *Ibid.*, 67, 1:28.

PREPARATA, FRANCO P., Professor

See Coordinated Science Laboratory.

ROBERTSON, JAMES E., Professor

See Computer Science.

SAH, CHIH-TANG, Professor

Articles

The equivalent circuit model in solid-state electronics, III: Conduction and displacement currents. *Solid-State Electronics*, 13, 12:1547-75.

With A. F. Tasch, Jr.

Recombination-generation and optical properties of gold centers in silicon. *Physical Review*, 1B, 2:800-809.

With R. F. Pierret

Quantitative analysis of the effects of steady state illumination on the MOS capacitor, Part I. Theory and Part II. Experiment. *Solid-State Electronics*, 13, 3:269-302.

With W. R. Hunter, D. H. Eaton

The effects of polarizer ellipticity on ellipsometry measurements. *Surface Science*, 20:355-67.

With L. Forbes, L. L. Rosier, A. F. Tasch, Jr.

Thermal and optical emission and capture rates and cross sections of electrons and holes at imperfection centers in semiconductors from photo and dark junction current and capacitance experiments. *Solid-State Electronics*, 13, 6:759-88.

With S. Sato

Measurements of the thermal emission rates of electrons and holes at the gold centers in silicon using the small signal pulsed field effect. *Journal of Applied Physics*, 41, 10:4175-81.

With L. D. Yau

Temperature and field dependences of the generation-recombination noise and thermal emission rates at the gold acceptor center in silicon. *Solid-State Electronics*, 13, 9:1213-18.

With W. R. Hunter, D. H. Eaton

Thin-oxide capacitance studies of fast surface states. *Applied Physics Letters*, 17, 5:211-13.

With T. H. Ning

Multi-valley effective mass approximation of shallow-donor levels in silicon. *Solid State Communication*, 8, 22:1893-96.

SECHRIST, CHALMERS, JR., Associate Professor

Articles

Interpretation of D-region electron densities. *Radio Science*, 5, 4:663-71.

SHIMAZAKI, TATSUO, Visiting Professor

Articles

With A. R. Laird

A model calculation of the diurnal variation in minor neutral constituents in the mesosphere and lower thermosphere including transport effects. *Journal of Geophysical Research*, 75, 16:3221-35.

With M. Shimizu

Model calculations of the Martian upper atmosphere and ionosphere including transport effects. *Report of Ionosphere and Space Research of Japan*, 24, 1:80-98.

STREETMAN, BEN G., Associate Professor

Articles

With H. R. Zwicker, A. M. Andrews, H. J. Deuling

Double injection in Au-doped Si p- π -n diodes. *Applied Physics Letters*, 16, 2:63-66.

With M. M. Blouke, N. Holonyak, Jr.,

H. R. Zwicker

Solid solubility of Zn in Si. *Journal of Physics and Chemistry of Solids*, 31, 1:173-77.

Current oscillations in Zn-doped Si p-i-n diodes. *Solid-State Electronics*, 13, 3:337-45.

With H. R. Zwicker, N. Holonyak, Jr.,

A. M. Andrews

Double injection in semiconductors with multi-valent trapping centers. *Journal of Applied Physics*, 41, 11:4697-4710.

SWENSON, GEORGE W., JR., Professor

Articles

With B. J. Flaherty, K. C. Yeh

A proposal for absolute electron content determination by using a geostationary satellite beacon. In *Proceedings of the symposium on the future application of satellite beacon experiments*, ed. by W. Dieminger and G. K. Hartmann, Max-Planck Institute for Aeronomy, D-3411 Linden/Harz, West Germany, pp. 40-41.

TRICK, TIMOTHY N., Associate Professor

See Coordinated Science Laboratory.

TURNBULL, ROBERT J., Assistant Professor

Articles

Thermal diffusion effects on the electrohydrodynamic Raleigh-Taylor bulk instability. *Physics of Fluids*, 13, 10:2615-16.

With J. R. Melcher

Reply to comments by E. M. Barston. *Ibid.*, 11:2878-80.

With K. C. Jungling, O. L. Gaddy, G. W. Day

Reduction of CO₂-induced thermal lensing in CS₂ with a DC electric field. *IEEE Journal of Quantum Electronics*, QE-6, 11:669-72.

VERDEYEN, JOSEPH T., Professor

Articles

With J. C. Guyot, G. H. Miley, T. Ganley

On gas laser pumping via nuclear radiation. In *Transactions of symposium on research on uranium plasmas and their technological applications*, University of Florida, Gainesville.

Measurement of atomic metastable density in nuclear radiation induced plasmas. *Transactions of American Nuclear Society*, 13, 1:77-78.

von FOERSTER, HEINZ, Professor

Articles

Thoughts and notes on cognition. In *Cognition: a multiple view*, ed. by Paul Garvin, Spartan Books, New York, pp. 25-48.

Evolution of community (preface). In *Shape of community*, by S. Chermayeff and A. Tzomis, Penguin, London, pp. 17-20.

Perception of form in biological and man-made systems. *Journal of the Industrial Designers Society of America*, 3, 3:26-40.

With A. Inselberg

A mathematical model of the Basilar membrane. *Mathematical Biosciences*, 7, 3/4:341-63.

WAX, NELSON, Professor

See Coordinated Science Laboratory.

YAU, LEOPOLDO D., Assistant Professor

Articles

With C. T. Sah

Temperature and field dependences of the

generation-recombination noise and the thermal emission rates at the gold acceptor center. *Solid-State Electronics*, 13, 9:1213-18.

YEH, KUNG C., Professor

Articles

With E. W. Ernst, G. W. Swenson, Jr.

A proposal for absolute electron content determination by using a geostationary satellite. In *Proceedings of the symposium on the future application of satellite beacon experiments*, ed. by W. Dieminger and G. K. Hartmann, Max-Planck Institute for Aeronomy, D-3411 Linden/Harz, West Germany, pp. 40-41.

With C. H. Liu

On resonant interactions of acoustic gravity waves. *Radio Science*, 5, 1:39-48.

With H. R. Cho

Neutral winds and the behavior of the ionospheric F₂ region. *Ibid.*, 6:881-94.

With L. M. Paul, B. J. Flaherty

Measurement of irregularity heights by the spaced receiver technique. *Ibid.*, 6:967-73.

With N. Narayana Rao, M. Y. Youakim

Ionospheric electron content at temperate latitudes during the increasing phase of the solar cycle. *Australian Journal of Physics*, 23, 1:37-43.

With B. J. Flaherty, H. R. Cho

Response of the F-region ionosphere to a solar eclipse. *Nature*, 226, 5251:1121-23.

YOUAKIM, MAURICE Y., Research Associate

Articles

With C. H. Liu

Propagation of coherent waves in a warm turbulent magneto-plasma. *Radio Science*, 5, 4:757-65.

With N. Narayana Rao, K. C. Yeh

Ionospheric electron content at temperate latitudes during the increasing phase of the solar cycle. *Australian Journal of Physics*, 23, 1:37-43.

DOCTORAL DISSERTATIONS

Asano, Kazutoshi (C. D. Hendricks, Adviser), Conduction and pumping in dielectric liquids under the influence of an applied electric field.

Atwood, John W. (H. M. von Foerster, Adviser), Pulse interval representations of speech events.

Cicerone, Ralph J. (S. A. Bowhill, Adviser), Monte Carlo and Thompson-scatter plasma-line studies of ionospheric photoelectrons.

Clark, Robert M. (K. C. Yeh, Adviser), Gravity waves in the ionosphere.

Cowling, David H. (H. D. Webb, Adviser), A study of traveling disturbances in the ionosphere.

Davis, James M. (W. R. Perkins, Adviser), The sensitivity and control of distributed parameter systems.

Day, Gordon W. (O. L. Gaddy, Adviser), Electro-optic Q-switching of the carbon dioxide laser.

DeLuzish, Bruce G. (J. E. Robertson, Adviser), A class of algorithms for automatic evaluation of certain elementary functions in a binary computer.

Finkelstein, Harvey A. (G. Metzger, Adviser), An investigation into the extension of redundancy techniques.

Forbes, Leonard (C. T. Sah, Adviser), Thermal and optical emission and thermal capture of electrons and holes at gold centers in silicon.

Gowan, Eugene, III (G. A. Deschamps, Adviser), Quasi-optical approaches to the diffraction and scattering of gaussian beams.

Hanson, Jerry L. (G. H. Fett, Adviser), Linear difference games with delays.

Hartmann, Carlos R. P. (R. T. Chien, Adviser), On the minimum distance structure of cyclic codes and decoding beyond the BCH bound.

Hayes, John P. (G. Metzger, Adviser), A study of digital network structure and its relation to fault diagnosis.

Hunsinger, Bill J. (D. F. Holshouser, Adviser), Spatial modulation of light using surface waves in a fabry-perot interferometer.

Johnson, Roger L. (D. L. Bitzer, Adviser), The application of the plasma display technique to computer memory systems.

Jungling, Kenneth C. (O. L. Gaddy, Adviser), Intensity-dependent optical nonlinearities in liquid CS₂ near 10 μ m.

Keune, David L. (N. Holonyak, Jr., Adviser), Photoluminescence spectra and carrier lifetime measurements in CdSe, GaAs and GaAs_{1-x}P_x.

Madden, Robert F. (W. R. Ashby, Adviser), A measure of dimensional complexity for multidimensional systems.

Marvel, Orin E. (W. J. Poppelbaum, Adviser), Transformmatrix—an image processor input and stochastic processor sections.

Melzer, Stuart M. (B. C. Kuo, Adviser), Linear regulation theories related to the optimal control of a string of moving vehicles.

Mokari-Bolhassan, Mohammad-Ebrahim (J. B. Cruz, Jr., Adviser), Optimization of distributed-lumped-active networks.

O'Brien, William D., Jr. (F. Dunn, Adviser), The absorption of ultrasound in aqueous solutions of biological polymers.

Petty, William D. (H. G. Slottow, Adviser), Multiple states and variable intensity in the plasma display panel.

Pisterzi, Michael J. (J. E. Robertson, Adviser), A limited connection arithmetic unit.

Royer, Erlind G. (R. Mitra, Adviser), The diffraction of electromagnetic waves by dielectric steps in waveguides.

Schaefer, Edwin M., III (O. L. Gaddy, Adviser), Noise processes in the dynamic crossed-field photomultiplier.

Schlie, Laverne A. (J. T. Verdeyen, Adviser), Behavior of Neon 1ss atoms in He-Ne active discharges.

Seth, Sharad C. (G. Metzger, Adviser), Fault testing in combinational cellular arrays.

Uhlhorn, Roger W. (D. F. Holshouser, Adviser), Correlation detection of sub-nanosecond optical pulses.

Weston, Paul E. (H. M. von Foerster, Adviser), Cylinders: a relational data structure.

Wilton, Donald R. (R. Mitra, Adviser), A new numerical approach to the calculation of electromagnetic scattering properties of two-dimensional bodies of arbitrary cross-section.

Wittig, Curt F. (P. D. Coleman, Adviser), The carbon monoxide chemical laser system.

Youakim, Maurice Y. (K. C. Yeh, Adviser), A numerical study of rays in random media.

ENGINEERING ADMINISTRATION

DRUCKER, DANIEL C., Dean of College of Engineering and Professor of Civil Engineering

Articles

Mathematical insight and manipulative ability required for a first course in mechanics of deformable bodies. In *Wayne State University proceedings of the eleventh Michigan teachers of mechanics conference*, p. 3.

Discussion of "Systems and design," by John P. Eberhard. In *Engineering for the benefit of mankind*, a symposium held at the third autumn meeting of the National Academy of Engineering, Standard Book Number 309-01739-4, pp. 101-4.

Priorities, values, antiintellectualism and career choices; or Frank Borman is right. *Phi Kappa Phi Journal*, 50, 2:28-31.

With J. R. Rice

Plastic deformation in brittle and ductile fracture. *Journal of Engineering Fracture Mechanics*, 1, 3:577-602.

EVERITT, WILLIAM L., Dean Emeritus of College of Engineering

Books Edited

Physical design of electronic systems, vol. 1: Design technology. Prentice-Hall, Inc., New Jersey, 626 pp.

Electronic fundamentals and applications (fourth ed.). Prentice-Hall, Inc., New Jersey, 710 pp.

MORRISON, FRANK A., JR., Associate Professor of Mechanical Engineering and Assistant Dean, College of Engineering
See Mechanical Engineering.

WAKELAND, HOWARD L., Professor of Agricultural Engineering and Associate Dean, College of Engineering

Articles

Today's engineering graduate. *The Journal of the American Society of Agricultural Engineers*, 51, 1:15-17.

ENGLISH

ADELMAN, GARY S., Associate Professor

Books

Honey out of stone. Doubleday and Co., Inc., Garden City, New York, 191 pp.

Articles

A reading of *The Rainbow*. *Karamu*, 3, 1:68-94.

Poems

Sermon II. *The New Orleans Review*, 1, 4:376-77.

ALTENBERND, A. LYNN, Professor

Books

Teacher's manual for Exploring literature. Macmillan, New York, 96 pp.

Books Edited

Exploring literature: fiction, drama, poetry, criticism. Macmillan, New York, 702 pp.

ANDERSEN, SALLY S., Assistant Professor

Articles

Two poems untitled. *Generation*. Idlewild Publishing Co., Los Angeles, California, p. 65.

Poems

Party scene. *Spirit: A Magazine of Poetry*, 37, 1:6.

BAYM, NINA, Associate Professor

Articles

Passion and authority in *The Scarlet Letter*. *New England Quarterly*, 43, 2:209-30.

Hawthorne's Holgrave: the failure of the artist-hero. *Journal of English and Germanic Philology*, 69, 4:584-98.

Reviews

The design of the present, by John Lynen. *Ibid.*, 1:183-86.

The interpreted design as a structural principle in American prose, by David L. Minter. *Ibid.*, 2:323-25.

The lucid reflector: the observer in Henry James' fiction, by Ora Segal. *Ibid.*, 4:679-81.

BENNETT, SCOTT B., Assistant Professor

Books Edited

With R. Gottesman

Art and error; modern textual editing. Indiana University Press, Bloomington, 306 pp.

Articles

The Bentley and Constable records. *Victorian Periodicals Newsletter*, 8, April: 12-15.

BERRY, LLOYD E., Professor and Assistant Chancellor

Books

With A. G. Holaday, R. Ornstein, G. B. Evans, R. F. Welsh

The plays of George Chapman: the comedies. University of Illinois Press, Urbana, 594 pp.

BOUTON, LAWRENCE R., Assistant Professor

Articles

Antecedent contained pro-forms. In *Papers from the sixth regional meeting of the Chicago Linguistic Society*, Chicago Linguistic Society, Chicago, pp. 154-67.

Do so: do + adverb. In *Studies presented to Robert B. Lees by his students*, ed. by J. M. Sadock and A. L. Vanck, Linguistic Research, Inc., Champaign, Illinois, pp. 17-38.

BRANDABUR, EDWARD J., Associate Professor

Articles

Eliot and the myth of mute speech. *Renaissance*, 22, 3:141-50.

Stephen Dedalus and Paul Morel. *Revista de Letras*, 2, 7:358-70.

CABLE, THOMAS M., Assistant Professor

Articles

Rules for syntax and metrics in *Beowulf*. *Journal of English and Germanic Philology*, 69, 1:81-88.

CURLEY, DANIEL, Professor

Articles

Litany for the loving. *Kansas Quarterly*, 3, 1:68-72.

DOUGLAS, GEORGE H., Assistant Professor

Articles

A reconsideration of the Dewey-Croce exchange. *Journal of Aesthetics and Art Criticism*, 28, 4:497-504.

Croce's early aesthetic and American critical theory. *Comparative Literature Studies*, 7, 2:204-15.

The hot and cold media principle: theory or rhetoric? *Review of General Semantics*, 27, 3:339-44.

Reviews

The letters of Josiah Royce, by John Clendenning. *American Quarterly*, 22, 2:295.

- Two Dreisers, by Ellen Moers. *American Quarterly*, 22, 2:301.
- Language in America, by Neil Postman, and others. *Journal of Business Communication*, 7, 4:53-55.
- DUSSINGER, JOHN A.**, Associate Professor
- Articles**
- What Pamela knew: an interpretation. *Journal of English and Germanic Philology*, 69, 2:377-93.
- Style and intention in Johnson's *Life of Savage*. *English Literary History*, 27, 3:564-80.
- Reviews**
- The art of Joseph Andrews, by Homer Goldberg. *Journal of English and Germanic Philology*, 69, 2:315-18.
- FLANAGAN, JOHN T.**, Professor
- Books Edited**
- Profile of Vachel Lindsay. Charles E. Merrill Company, Columbus, Ohio, 122 pp.
- Articles**
- Western sportsmen travelers in the New York *Spirit of the Times*. In *Travelers on the western frontier*, John Francis McDermott, University of Illinois Press, Urbana, pp. 168-86.
- Folklore. In *American literary scholarship*, ed. by J. Albert Robbins, Duke University Press, Durham, North Carolina, pp. 273-99.
- Reviews**
- Joel Chandler Harris, by Paul M. Cousins. *Journal of English and Germanic Philology*, 69, 1:186-87.
- Way out west, by Harold G. Merriam. *Western Historical Quarterly*, 1:203-5.
- The westerners, by John Myers. *Western Historical Quarterly*, 1:203-5.
- A bibliographical guide to the study of southern literature, by Louis D. Rubin, Jr. *South Atlantic Quarterly*, 69:420-21.
- The fool and his scepter, by William Willeford. *Journal of English and Germanic Philology*, 69, 4:552-53.
- Vachel Lindsay: fieldworker for the American dream, by Ann Massa, *American Literature*, 42:413-14.
- The uncorrupted heart, by Fred Gustorf. *Indiana Magazine of History*, 66:369-70.
- FRAYNE, JOHN P.**, Assistant Professor
- Books Edited**
- Uncollected prose by W. B. Yeats, vol. 1, first reviews and articles 1886-1896. Columbia, Macmillan Ltd., New York, London, 437 pp.
- HENDRICK, GEORGE**, Professor
- Books**
- With D. Gerstenberger*
- The American novel, II. Swallow Press, Chicago, 459 pp.
- Third directory of periodicals publishing articles on English and American literature and language. Swallow Press, Chicago, 199 pp.
- Articles**
- Influence of Thoreau and Emerson on Gandhi's satyagraha. *Quest for Gandhi*, Gandhi Peace Foundation, New Delhi, pp. 173-89.
- With E. Wright*
- Annual bibliography of short fiction explanation. *Studies in Short Fiction*, 7:496-537.
- Reviews**
- Myth and motion, Richard P. Adams and Yoknapatawpha: Faulkner's 'little postage stamp of native soil.' *Journal of English and Germanic Philology*, 69, 4:551-52.
- Katharine Anne Porter: a critical symposium, by Lodwick Hartley and George Core. *Studies in Short Fiction*, 7, Fall: 554-666.
- The concept of an Indian literature, by P. Lal. *Books Abroad*, 44, Winter: 177.
- Thomas Wolfe's albatross: race and nationality in America, by Paschal Reeves. *American Quarterly*, Summer: pp. 308-9.
- HOETKER, WILLIAM J.**, Associate Professor
- Articles**
- The advantages and disadvantages of behavioral objectives in the arts and humanities. In *On writing behavioral objectives for English*, ed. by J. Maxwell and A. Tovatt, National Council of Teachers of English, Champaign, Illinois, pp. 49-59.
- With G. Siegel*
- Three studies of the preferences of students of different races for actors in interracial theatre productions. *Journal of Social Issues*, 26, 4:87-103.
- With J. Colmey*
- Behavioral objectives in planning, budgeting, evaluation. *Illinois School Board Journal*, 38, 5:14-16.
- Bulletins and Technical Reports**
- A final report on the educational laboratory theatre project, 1966-1970. Central Midwestern Regional Educational Laboratory, Inc., St. Louis, Missouri, 4 vols., 1001 pp.
- HOLADAY, ALLAN G.**, Professor
- Books**
- With L. E. Berry, G. B. Evans, R. Ornstein, R. F. Welsh*
- The plays of George Chapman: the comedies. University of Illinois Press, Urbana, 594 pp.
- HOOK, JULIUS N.**, Professor
- Books**
- With M. G. Crowell*
- Modern English grammar for teachers. The Ronald Press Co., New York, 291 pp.
- With P. H. Jacobs, R. D. Crisp*
- What every English teacher should know. National Council of Teachers of English, Champaign, Illinois, 111 pp.
- Articles**
- A system for revision of a specific curriculum in teacher education. *Journal of Teacher Education*, 21:848-85.
- Humanities for what? *Illinois English Bulletin*, 58, 3:6-15.
- HOTCH, DOUGLAS R.**, Assistant Professor
- Reviews**
- Laurence Sterne as satirist: a reading of *Tristram Shandy*, by Melvyn New. *Journal of English and Germanic Philology*, 69, 4:675-78.
- HURT, JAMES R.**, Associate Professor
- Articles**
- A note on *Elfric's Lives of Saints*, no. XVI. *English Studies*, 51:1-4.
- KAY, W. DAVID**, Assistant Professor
- Articles**
- The shaping of Ben Jonson's career: a re-examination of facts and problems. *Modern Philology*, 67, 3:224-37.

KINNAMON, KENETH, Associate Professor

Articles

Afro-American literature, the black revolution and ghetto high schools. *English Journal*, 59, 2:189-94.

Reviews

Black masks: Negro characters in modern southern fiction, by Nancy M. Tischler. *American Quarterly*, 22, 2:31.

KRAMER, DALE V., Associate Professor

Reviews

Henry Mackenzie: letters to Elizabeth Rose of Kilravock: on literature, events, and people (1768-1815), ed. by Horst Drescher. *Studies in Scottish Literature*, 7, 4:276-78.

LIEBERMAN, LAURENCE J., Professor

Poems

Flying below sea level. In *Exploring literature*, ed. by A. Lynn Altenbernd, The Macmillan Company, New York, pp. 465-66.

Flying on the surface. *Ibid.*, pp. 466-68.

Lobsters in the brain coral. *Poetry*, 117, 2: 81-83.

Reviews

Babel to Byzantium: poets and poetry now, by James Dickey. *Poetry*, 115, 5:346-47.

To abolish children and other essays, by Karl Shapiro. *Ibid.*, p. 348.

Introduction to poetry: commentaries on thirty poems, by Mark Van Doren. *Ibid.*, pp. 348-49.

Essays and reviews, Thomas H. Carter. *Ibid.*, pp. 349-50.

Poetic closure: a study of how poems end, by Barbara Herrnstein Smith. *Ibid.*, p. 350.

The gaiety of language: an essay on the radical poetics of W. B. Yeats and Wallace Stevens, by Frank Lentricchia. *Ibid.*, pp. 350-51.

The poetry of Emily Dickinson, by Ruth Miller. *Ibid.*, pp. 351-52.

Hart Crane: an introduction to the poetry, by Herbert Leibowitz. *Ibid.*, p. 352.

NEMANICH, DONALD D., Assistant Professor

Articles

The Nebraska syntax study. *Nebraska English Counselor*, 15, 4:3-8.

Teaching and learning grammar. *Missouri English Bulletin*, 27, 4:2-8.

The syntax of children's writing. *NCTE/ERIC*, No. ED 026 356.

PURAVS, OLGERTS, Assistant Professor

Reviews

Sermūkšlu pagasta laudis, by Irma Grebзде. *Javnā Gaita*, 15, 77:51.

Putni, Tālvāldis Kikauka. *Ibid.*, 81:54.

I. A. Richard's theory of literature, by Jerome P. Schiller. *Journal of English and Germanic Philology*, 69, 3:553-55.

PURVES, ALAN C., Professor

Articles

Measure what men are doing: plan for what man might become. In *On writing behavioral objectives in English*, ed. by J. Maxwell and A. Tovatt, National Council of Teachers of English, Champaign, Illinois, pp. 87-96.

Life, death and the humanities. *College English*, 21, 6:558-64.

Of behaviors, objectives, and English. *English Journal*, 59:793-97.

With V. Rippers

Éléments pour servir à l'étude d'analyses littéraires. *Scientia Paedagogica Experimentalis (Belgium)*, 6, 2:229-334.

SANDERS, CHARLES, Associate Professor

Books

W. Somerset Maugham: an annotated bibliography of writings about him. Northern Illinois University Press, DeKalb, Illinois, 436 pp.

Books Edited

With R. R. Rice, *W. J. Cantillon*

Writer and persona: character into prose. McGraw-Hill, New York, 454 pp.

SHAPIRO, MICHAEL, Assistant Professor

Articles

Three notes on the theatre at Paul's, c. 1569-c. 1607. *Theatre Notebook*, 24, 4:147-54.

SHATTUCK, CHARLES H., Professor

Reviews

Theatre of the world, by Frances A. Yates. *Journal of English and Germanic Philology*, 69, 4:671-75.

SMALLEY, DONALD, Professor

Books Edited

With B. Litzinger

Browning: the critical heritage. Routledge and Kegan Paul, Ltd., London; Barnes and Noble, New York, 550 pp.

STEELE, JAMES C., Instructor

Articles

Improving communication skills of agriculture students at the University of Illinois. *The Journal of the National Association of Colleges and Teachers of Agriculture*, 14, 3: 46-49.

With J. Everly, A. W. Burger

Mediated English counseling. *The Journal of the National Association of Colleges and Teachers of Agriculture*, 14, 3:46-49.

STILLINGER, JACK, Professor

Reviews

Wordsworth as critic, by W. J. B. Owen; Wordsworth's theory of poetry, by J. A. W. Heffernan. *Journal of English and Germanic Philology*, 69, 1:179-83.

TIBBETTS, ARNOLD M., Associate Professor

Articles

On the practical uses of a grammatical system. *College English*, 31, 5:870-78.

TRAHERN, JOSEPH B., JR., Assistant Professor

Articles

The *Ioca Monachorum* and the Old English *Pharaoh*. *English Language Notes*, 7, 3: 165-68.

Old English poetry, exclusive of *Beowulf*. *Year's Work in Old English Studies*. *Old English Newsletter*, 4, 1:24-31.

UROFF, MARGARET D., Assistant Professor

Articles

Hart Crane's "Recitative." *Concerning Poetry*, 3, 1:22-27.

Hart Crane's "Voyages VI," stanza 6. *English Language Notes*, 8, 1:45-47.

WHISNANT, DAVID E., Assistant Professor

Articles

The sacred and the profane in *Walden. The Centennial Review*, 14, 3:267-83.

Career and calling: a personal record and a tentative suggestion. *Soundings*, 53, 2:111-23.

Finding new models for Appalachian development. *The New South*, 25, 4:70-77.

WILKIE, BRIAN, Associate Professor

Articles

Epic irony in [Blake's] *Milton*. In *Blake's visionary forms dramatic*, ed. by David V. Erdman and John E. Grant, Princeton University Press, Princeton, New Jersey, pp. 359-72.

Reviews

Wordsworth as critic, by W. J. B. Owen. *English Language Notes*, 8, 1:58-61.

WILSON, HARRIS W., Professor

Reviews

H. G. Wells: his turbulent life and times, by Lovat Dickson. *English Literature in Transition*, 13, 1:85-86.

DOCTORAL DISSERTATIONS

Adler, Thomas P. (A. G. Holaday, Adviser). The concept of providence in Cain and Abel plays: from the Chester "Creation" to Van Itallie's *The Serpent*.

Butler, Michael D. (J. T. Flanagan, Adviser). The literary landscape of the Trans-Mississippi West: 1826-1902.

Callahan, John F. (S. Paul, Adviser). When that greater dream had gone: history and self in *The Great Gatsby* and *Tender is the Night*.

Carino, Socorro B. (B. A. Milligan, Adviser). Eighteenth century voyagers to the Pacific and the South Seas and the rise of cultural primitivism and the noble savage idea.

Crook, Eugene J. (J. J. Campbell, Adviser). Handbook of Middle English grammar: phonology by Richard Jordan.

DuBois, William R. (E. H. Davidson, Adviser). Walt Whitman's poetry: a record of crises in identity.

Eidsvik, Charles V. (R. H. Wasson, Adviser). Cinema and literature.

Flibbert, Joseph T. (E. H. Davidson, Adviser). Melville and the art of burlesque.

Harrington, John F., Jr. (A. E. Barker, Adviser). John Donne and the Renaissance verse-letter tradition.

Hunsaker, Orvil G. (E. H. Davidson, Adviser). Calvinistic election and Arminian reparation: a striking contrast in the works of Roger Williams and John Milton.

Johnsen, William A. (E. J. Brandabur, Adviser). Toward a redefinition of the modern.

Johnson, Margaret A. C. (A. E. Barker, Adviser). Homiletic theory and practice in the sermons of John Donne and Lancelot Andrewes.

Kertesz, Louise C. (E. H. Davidson, Adviser). A study of Thoreau as myth theorist and myth maker.

Lucas, Robert A. (J. J. Campbell, Adviser). Prolegomena to Byrhtferth's *Manual*.

McFarland, Ronald E. (A. E. Barker, Adviser). Thomas Traherne's *Thanksgiving*.

O'Donnell, Thomas J. (J. Simon, Adviser). The dichotomy of self in T. E. Lawrence's *Seven Pillars of Wisdom*.

Parsons, Ann D. (S. Paul, Adviser). Patterns of contact: the short stories of William Carlos Williams.

Reeve, Clayton C. (E. H. Davidson, Adviser). Hawthorne's dilemma: the confrontation between Christian and romantic thinking in the tales and novels.

Shokoff, James G. (J. Stillinger, Adviser). The creation of sublimity: Wordsworth's response to experience in the poems, 1797-1807.

Sullivan, Zohreh T. (E. J. Brandabur, Adviser). Enchantment and the demonic in the novels of Iris Murdoch.

Wright, Edward C. (L. E. Berry, Adviser). The English works of Ulpian Fulwell.

ENTOMOLOGY

BHATTACHARYA, ANOOP, Research Associate

Articles

With J. J. Ameel, G. P. Waldbauer

A method for sexing living pupal and adult yellow mealworms. *Annals of the Entomological Society of America*, 63:1783.

With N. C. Pant

Bioassay of trypsin inhibitor from lentil (*Lens esculenta*) and French bean (*Phaseolus vulgaris*) on khapra beetle, *Trogoderma granarium*. *Indian Journal of Entomology*, 32: 58-67.

With G. P. Waldbauer

Use of fecal uric acid method in measuring the utilization of food by *Tribolium confusum* larvae. *Journal of Insect Physiology*, 16:1983-90.

BOOTH, GARY M., Assistant Professor

Articles

With R. L. Metcalf

Histochemical evidence for localized inhibition of cholinesterase in the housefly. *Annals of the Entomological Society of America*, 63, 1:197-204.

Phenylthioacetate: a useful substrate for the histochemical and colorimetric detection of cholinesterase. *Science*, 170, 3956:455-57.

With G. S. Whitt

Localization of lactate dehydrogenase activity in the cells of the fish (*Xiphophorus helleri*) eye. *Journal of Experimental Zoology*, 174, 2:215-24.

CARLSON, STANLEY D., Postdoctoral Fellow

Articles

With J. S. Smith, Jr., J. M. Stanley, U. F. Earp

Electrophysiologically investigating the optic tract of the tobacco hornworm moth. *Transactions of the Agricultural Engineering Society of America*, 13, 2:214-15.

FRAENKEL, GOTTFRIED S., Professor

Articles

Evaluation of our thoughts on secondary plant substances. *Entomologia: Experimentalis et Applicata*, 12:473-86.

With W. Fogal

Histogenesis of the cuticle of adult flies, *Sarcophaga bullata* and *S. argyrostoma*. *Journal of Morphology*, 130:137-50.

With J. Zdarek

The evaluation of the "Calliphora test" as an assay for ecdysone. *Biological Bulletin*, 139: 138-50.

- Overt and covert effects of endogenous and exogenous ecdysone in puparium formation of flies. *Proceedings of the National Academy of Science*, 67:331-37.
- With E. Zlotkin
Acceleration of puparium formation in *Sarcophaga agrostoma* by electrical stimulation or scorpion venom. *Journal of Insect Physiology*, 19:1549-54.
- FRIEDMAN, STANLEY, Professor
Articles
Metabolism of carbohydrates in insects. In *Chemical zoology*, ed. by Florin and Scheer, Academic Press, New York, pp. 167-98.
- With R. L. Benson
Allosteric control of glucosamine phosphate isomerase from the adult housefly and its role in the synthesis of glucosamine-6-phosphate. *Journal of Biological Chemistry*, 245, 9: 2219-28.
- HORSFALL, WILLIAM R., Professor
Articles
With E. W. Cupp
Thermal stress and anomalous development of mosquitoes (Diptera: Culicidae) VII. Effect of temperature on embryogeny of *Aedes aegypti*. *Annales Zoologici Fennici*, 7:370-74.
Thermal stress and anomalous development of mosquitoes (Diptera: Culicidae) VI. Effect of temperature on embryogeny of *Aedes sierrensis*. *Ibid.*, pp. 358-65.
- With M. C. Ronquillo
Genesis of the reproductive system of mosquitoes. II. Male. *Journal of Morphology*, 131:329-57.
- With F. R. Voorhees, E. W. Cupp
Eggs of floodwater mosquitoes. XIII. Chorionic sculpturing. *Ibid.*, pp. 63:1709-16.
- With G. R. Wilson
Eggs of floodwater mosquitoes. XII. Installment hatching of *Aedes vexans* (Diptera: Culicidae). *Annals of the Entomological Society of America*, 63:1644-47.
- JAYCOX, ELBERT R., Professor
See Horticulture.
- KAPOOR, INDER P., Research Associate
Articles
With R. L. Metcalf, R. F. Nyström, G. K. Sangha
Comparative metabolism of methoxychlor, methiochlor, and DDT in mouse, insects, and in a model ecosystem. *Journal of Agricultural and Food Chemistry*, 18, 6:1145-52.
- LIPSEY, RICHARD L., Teaching Assistant
Articles
The hosts of *Neurocolpus nubilus* (Say), the clouded plant bug (Hemiptera, Miridae). *Entomological News*, 81:213-19.
The life history of *Neurocolpus nubilus* (Say), the clouded plant bug (Hemiptera, Miridae). *Ibid.*, 81:257-62.
- LUCKMANN, WILLIAM H., Professor
See Agricultural Entomology.
- MACLEOD, ELLIS G., Associate Professor
Articles
The Neuroptera of the Baltic amber. Part I. The families Ascalaphidae, Nymphidae, and Psychopsidae. *Psyche*, 77:147-80.
- METCALF, ROBERT L., Professor
See Zoology.
- PRICE, PETER W., Assistant Professor
Articles
A loosestrife sawfly, *Monostegia abdominalis* (Fabricius) (Hymenoptera: Tenthredinidae). *Canadian Entomologist*, 102:491-95.
Dispersal and establishment of *Pleolophus basizonus* (Gravenhorst) (Hymenoptera: Ichneumonidae). *Ibid.*, pp. 1102-11.
Characteristics permitting coexistence among parasitoids of a sawfly in Quebec. *Ecology*, 51:445-54.
Trail odors recognition by insects parasitic on cocoons. *Science*, 170:546-47.
Biology of and host exploitation by *Pleolophus indistinctus* (Provancher) (Hymenoptera: Ichneumonidae). *Annals of the Entomological Society of America*, 63:1502-9.
- SELANDER, RICHARD B., Professor
Books
The bionomics of blister beetles of the genus *Meloe* and a classification of the New World species. University of Illinois Press, Urbana, 222 pp.
- SHELDON, JOSEPH K., Teaching Assistant
Articles
Sexual dimorphism in the head structure of Mutillidae Hymenoptera: a possible behavioral explanation. *Entomological News*, 81:57-61.
- STANNARD, LEWIS J., Professor
See Agricultural Entomology.
- STERNBURG, JAMES G., Professor
Articles
With R. F. Flattum
Action of nicotine on neural synaptic transmission in the American cockroach. *Journal of Economic Entomology*, 63:62-67.
Release of synaptically active material by nicotine in the central nervous system of the American cockroach. *Ibid.*, pp. 67-70.
- With A. G. Scarbrough, G. P. Waldbauer
A method for associating cocoons and marked last-stage larvae. *Annals of the Entomological Society of America*, 63:1481.
- With G. P. Waldbauer, W. G. George, A. G. Scarbrough
Hairy and downy woodpecker attacks on cocoons of urban *Hyalophora cecropia* and other saturniids (Lepidoptera). *Annals of the Entomological Society of America*, 63: 1366-69.
- WALDBAUER, GILBERT P., Associate Professor
Articles
Mimicry of hymenopteran antennae by Syrphidae. *Psyche*, 77:45-49.
- With A. K. Bhattacharya
Use of the fecal uric acid method in measuring the utilization of food by *Tribolium confusum*. *Journal of Insect Physiology*, 10: 1983-90.
- With J. G. Sternburg, W. G. George, A. G. Scarbrough
Hairy and downy woodpecker attacks on cocoons of urban *Hyalophora cecropia* and other saturniids (Lepidoptera). *Annals of the Entomological Society of America*, 63: 1366-69.

With J. G. Sternburg, A. G. Scarbrough

A method of associating cocoons and marked last-stage larvae. *Annals of the Entomological Society of America*, 63:1481.

WILLIS, JUDITH H., Associate Professor

Articles

With P. A. Lawrence

Deferred action of juvenile hormone. *Nature*, 225:81-83.

DOCTORAL DISSERTATIONS

Campbell, William R. (C. W. Kearns, Adviser), Part one: purification and properties of house fly head (*Musca domestica* L.) acetylcholinesterase. Part two: inhibition of fly head acetylcholinesterase by bis [M-hydroxyphenyl] trimethyl ammonium iodide esters of polymethylenedicarbamic acid.

Fox, Philip M. (J. R. Larsen, Adviser), Glutamic acid decarboxylase and the γ -aminobutyric acid pathway in the supraesophageal ganglion of the honeybee, *Apis mellifera* (hymenoptera, apidae).

Kapoor, Inder P. (R. L. Metcalf, Adviser), Comparative metabolism of DDT, methoxychlor and methiochlor in mammals, insects and in a model ecosystem.

Kuhlman, Donald E. (W. H. Luckmann, Adviser), Bionomics of *Diabrotica longicornis* (say) and *Diabrotica virgifera* leconte (coleoptera: chrysomelidae).

Randall, Robert F. (C. W. Kearns, Adviser), House fly head (*Musca domestica* L.) acetylcholinesterase activation by n-butanol.

Randall, Roscoe (W. H. Luckmann, Adviser), The bionomics of the corn leaf aphid, *Rhopalosiphum maidis* (Fitch).

Scarborough, Aubrey G. (G. P. Waldbauer), The occurrence of *Hyalophora cecropia* (L.) as related to urbanization.

Yu, Ching-Chieh (C. W. Kearns, Adviser), Comparative study of insect cholinesterases with special reference to substituted phenyl n-alkyl monocarbamates and bis-carbamates.

EXECUTIVE VICE PRESIDENT AND PROVOST'S OFFICE

DE VRIES, DAVID L.

Articles

With M. L. Zeigler

Criteria for the allocation of resources and evaluation of results. In *Institutional research and communication in higher education*, 10th Annual Forum on Institutional Research sponsored by the Association for Institutional Research, Berkeley, California, pp. 158-60.

JABLONSKY, STEPHEN F., JR.

Articles

With M. L. Zeigler

Analysis of instructional costs. In *Handbook of college and university administration*, vol. 1, section 8, chapter 9, McGraw-Hill Book Co., New York, pp. 193-210.

ZEIGLER, MARTIN L., Professor

Articles

The organization, economics, and allocation of resources to administrative systems analysis. In *Management information systems in higher education: the state of the art*, Duke University Press, Durham, North Carolina, pp. 59-75.

With D. L. De Vries

Criteria for the allocation of resources and evaluation of results. In *Institutional research and communication in higher education*, 10th Annual Forum on Institutional Research sponsored by the Association for Institutional Research, Berkeley, California, pp. 158-60.

With S. F. Jablonsky, Jr.

Analysis of instructional costs. In *Handbook of college and university administration*, McGraw-Hill Book Co., New York, vol. 1, section 8, chapter 9, pp. 193-210.

FINANCE

ARLT, CARL T., Professor

Articles

With J. R. Pike

The factors affecting bank stock prices. *Bank dividend policy*, American Bankers Association, New York, pp. 50-58, 69-77.

BRYAN, WILLIAM R., Associate Professor

Reviews

Income and wealth, by Edward Ames. *The Journal of Finance*, 25, 3:706-7.

COOPER, JAMES R., Assistant Professor

Articles

A study of usury laws in the United States to consider their effect on mortgage credit and home construction starts—a proposal. *American Business Law Journal*, 8, 2:165-90.

Economic prospects for housing—1970. *University of Illinois Bulletin*, 67, 12:7-13.

FORBES, STEPHEN W., Assistant Professor

Articles

Growth performances of nonlife insurance companies: 1955-1966. *The Journal of Risk and Insurance*, 37, 3:341-60.

Loss reserving performance within the regulatory framework. *Ibid.*, 4:527-38.

Reviews

Insurance, government, and social policy, edited by Spencer L. Kimball and Herbert S. Denenberg. *The Journal of Risk and Insurance*, 37, 1:134-36.

GENTRY, JAMES A., Associate Professor

Articles

With C. M. Linke

The life insurance company-mutual fund combination movement: an overview. *Best's Review*, 71, 3:12-23.

Implications of life insurance-mutual funds on credit unions. *The Credit Union Executive*, 9, 2:9-12.

Life company mutual funds. *Illinois Business Review*, 27, 1:6-8.

With J. R. Pike

An empirical study of the risk-return hypothesis using common stock portfolios of life insurance companies. *Journal of Financial and Quantitative Analysis*, 5, 2:179-85.

LINKE, CHARLES M., Associate Professor

Articles

A financial management model of the farm firm. In *A new look at agricultural financial research*, ed. by J. A. Hopkins, University of Illinois Press, Urbana, pp. 41-54.

With J. A. Gentry

The life insurance company-mutual fund com-

bination movement: an overview. *Best's Review*, 71, 3:12-23.

Implications of life insurance-mutual funds on credit unions. *The Credit Union Executive*, 9, 2:9-12.

Life company mutual funds. *Illinois Business Review*, 27, 1:6-8.

MEHR, ROBERT I., Professor

Books

Life insurance: theory and practice. Business Publications, Inc., Austin, 956 pp.

Articles

Business — 1969. In *World topics year book*, ed. by Everett E. Sentman and Marilyn R. Trier, Tangley Oaks Educational Center, Lake Bluff, Illinois, pp. 90-96.

The effect of mass merchandising on the agency system. *The Journal of Risk and Insurance*, 37, 1:142-47.

With S. Neumann

Delphi forecasting project. *Ibid.*, 2:241-46.

OSBORN, RICHARDS C., Professor

Articles

The small firm in the British economy. *Rivista Internazionale di Scienze Economiche e Commerciali*, 17, 4:352-78.

Concentration and profitability of small manufacturing corporations. *Quarterly Review of Economics and Business*, 10, 2:15-26.

DOCTORAL DISSERTATIONS

Gray, Rust F., Jr. (P. M. Van Arsdell, Adviser), A study of the sinking fund covenant with special reference to corporate financial planning.

Randle, Paul A. (R. W. Mayer, Adviser), A critical analysis of mutual fund performance.

Shin, Sun K. (P. M. Van Arsdell, Adviser), Relative importance of cash flow as a criterion of dividend policy.

FOOD SCIENCE

CSALLANY, A. SAARI, Research Assistant Professor

Articles

With M. Chiu, H. H. Draper

Oxidation products of α -tocopherol formed in autoxidizing methyl linoleate. *Lipids*, 5, 1:63-70.

With H. H. Draper

Metabolism of vitamin E. In *Proceedings of the Harry Steenbock symposium on the fat-soluble vitamins*, University of Wisconsin Press, Madison, pp. 347-53.

DRAPER, HAROLD H., Professor

Articles

With C. K. Chow

Isolation of γ -tocotrienol dimers from *Hevea* latex. *Biochemistry*, 9:445-50.

With A. S. Csallany

Metabolism of vitamin E. In *Proceedings of the Harry Steenbock symposium on the fat-soluble vitamins*, University of Wisconsin Press, Madison, pp. 347-53.

With A. S. Csallany, M. Chiu

Oxidation products of α -tocopherol formed in autoxidizing methyl linoleate. *Lipids*, 5, 1:63-70.

With R. J. Reber

Absorption and metabolism of 1^{14}C -hydroxy-

octadecadienoate in the rat. *Ibid.*, pp. 93-87.

With J. G. Bergan

Absorption and metabolism of 1^{14}C -methyl linoleate hydroperoxide. *Ibid.*, pp. 976-82.

With G. M. Findlay, J. G. Bergan

Metabolism of 1^{14}C -methyl linoleate hydroperoxide in the rabbit. *Ibid.*, pp. 970-75.

HASKELL, BETTY E., Associate Professor

Articles

With E. E. Snell

The metabolism of vitamin B₆. In *Comprehensive biochemistry*, vol. 21, ed. by Florin and Stotz, Elsevier, Amsterdam, pp. 47-71.

Microbiological determination of the vitamin B₆ group. In *Methods in enzymology*, 28, Part A., ed. by McCormick and Wright, Academic Press, New York, pp. 512-19.

JOHNSTON, PATRICIA V., Assistant Professor

See Children's Research Center.

KUMMEROW, FRED A., Professor

Articles

With D. S. Sgoutas

Incorporation of trans-fatty acids into tissue lipids. *The American Journal of Clinical Nutrition*, 23, 8:1111-19.

With E. G. Perkins, S. M. Vachha

Absorption by the rat of nonvolatile oxidation products of labeled randomized corn oil. *Journal of Nutrition*, 100, 7:725-31.

NARAYAN, K. ANANTH, Assistant Professor

Articles

Incorporation of U- ^{14}C -leucine into the serum lipoproteins and proteins of partially hepatectomized rats. *Lipids*, 5, 1:156-58.

Vitamin E deficiency and chemical carcinogenesis. *Experientia*, 26:840-41.

Serum lipoproteins of rats fed an essential fatty acid-deficient diet and N-2-fluorenylacetamide. *Cancer Research*, 30:1185-91.

With N. Chandrasekhara

Studies on liver plasma membranes of rats fed N-2-fluorenylacetamide. *Ibid.*, 30:2876-80.

Rat liver plasma membranes in essential fatty acid deficiency. *Journal of Nutrition*, 100, 4:477-80.

A study of the contamination of rat liver plasma membranes with other subcellular components. *Life Sciences*, 9, Part II, 23: 1327-34.

With H. P. Morris

Serum lipoproteins of rats bearing transplanted Morris hepatoma 7777. *International Journal of Cancer*, 5:410-14.

NELSON, ALVIN I., Professor

Articles

With E. Epstein, M. P. Steinberg, L. S. Wei

Aflatoxin production as affected by environmental conditions. *Journal of Food Science*, 35, 4:389-91.

With M. T. Dantsiger, M. P. Steinberg

Thermal browning of tomato solids as affected by concentration and inhibitors. *Ibid.*, 6: 808-10.

With S. Shanbhag, M. P. Steinberg

Bound water defined and determined at constant temperature by wide-line NMR. *Ibid.*, 5:612-15.

With M. P. Steinberg

Sweet corn. In *Corn: culture, processing, products*, ed. by G. E. Inglett, Avi Publishing Company, Inc., Westport, Connecticut, pp. 314-49.

NISHIDA, TOSHIRO, Professor

Articles

With U. Cogan

Nature of the interaction of dextran sulfate with low density lipoproteins of plasma. *Journal of Biological Chemistry*, 245, 18: 4689-97.

ORDAL, Z. JOHN, Professor

Articles

Current developments in detection of microorganisms in foods: influence of environmental factors on detection methods. *Journal of Milk and Food Technology*, 33, 1:1-5.

With E. J. Hsu

Comparative metabolism of vegetative and sporulating cultures of *Clostridium thermosaccharolyticum*. *Journal of Bacteriology*, 102, 2:369-76.

With M. D. Pierson, D. L. Collins-Thompson

Microbiological, sensory and pigment changes of aerobically and anaerobically packaged beef. *Food Technology*, 24, 10:129-33.

With D. L. Collins-Thompson, L. D. Witter

Carbon dioxide fixation and the synthesis of aspartate by *Microbacterium thermosphaeratum*. *Biochemical and Biophysical Research Communications*, 40, 4:909-13.

With A. Oterholm, L. D. Witter

Glycerol ester hydrolase activity of *Propionibacterium shermanii*. *Journal of Dairy Science*, 53, 5:592-93.

Purification and properties of a glycerol ester hydrolase (lipase) from *Propionibacterium shermanii*. *Applied Microbiology*, 20, 1:16-22.

PERKINS, EDWARD G., Associate Professor

Articles

With L. R. Wantland

Characterization of the nonvolatile compounds formed during the thermal oxidation of 1-linoleyl-2,3 distearin: I. The nonacidic fraction. *Lipids*, 5, 2:187-90.

Characterization of the nonvolatile compounds formed during the thermal oxidation of 1-linoleyl-2,3 distearin: II. The acidic fraction. *Ibid.*, pp. 191-200.

With S. S. Khanna

Application of gas liquid chromatography-mass spectrometry to analysis of natural products: waxes from *Mangifera indica* and *Sesbania grandiflora*. *Journal of Agricultural and Food Chemistry*, 18, 2:253-55.

With S. M. Vachha, F. A. Kummerow

Absorption by the rat of nonvolatile oxidation products of labeled randomized corn oil. *Journal of Nutrition*, 100 7:725-31.

PORTER, VERNON L., Instructor

Articles

Microwave energy keeps potato chips from overbrowning. *Illinois Research*, 12, 3:12-13.

STEINBERG, MARVIN P., Professor

Articles

Disposal of wastes from the food-processing industry. *Illinois Research*, 12, 4:16.

With M. T. Danziger, A. I. Nelson

Thermal browning of tomato solids as affected

by concentration and inhibitors. *Journal of Food Science*, 35, 6:808-10.

With E. Epstein, A. I. Nelson, L. S. Wei

Aflatoxin production as affected by environmental conditions. *Ibid.*, 4:389-91.

With A. I. Nelson

Sweet corn. In *Corn: culture, processing, products*, ed. by G. E. Inglett, Avi Publishing Company, Inc., Westport, Connecticut, pp. 314-49.

With S. Shanbhag, A. I. Nelson

Bound water defined and determined at constant temperature by wide-line NMR. *Journal of Food Science*, 35, 5:612-15.

WEI, LUN-SHIN, Associate Professor

Articles

With E. Epstein, M. P. Steinberg, A. I. Nelson

Aflatoxin production as affected by environmental conditions. *Journal of Food Science*, 35, 4:389-91.

WILSON, HAROLD K., Associate Professor

Articles

Sterilized whipping cream. *Illinois Research*, 12, 2:12-13.

WITTER, LLOYD D., Professor

Articles

With Y. Azuma

Pyocyanine degradation by apyocyanogenic strains of *Pseudomonas aeruginosa*. *Canadian Journal of Microbiology*, 16, 5:395-98.

With A. Oterholm, Z. J. Ordal

Glycerol ester hydrolase activity of *Propionibacterium shermanii*. *Journal of Dairy Science*, 53, 5:592-93.

Purification and properties of glycerol ester hydrolase (lipase) from *Propionibacterium shermanii*. *Applied Microbiology*, 20:16-22.

With M. G. Johnson, S. A. Palumbo, V. T. Rieck

Influence of temperature on steady-state growth of colonies of *Pseudomonas fluorescens*. *Journal of Bacteriology*, 103, 1:268-69.

With D. L. Collins-Thompson, Z. J. Ordal

Carbon dioxide fixation and the synthesis of aspartate by *Microbacterium thermosphaeratum*. *Biochemical and Biophysical Research Communications*, 40, 4:909-13.

DOCTORAL DISSERTATIONS

Clark, Larry W. (T. Nishida, Adviser), The effect of salt and pH on the solubility of high density human plasma lipoprotein in aqueous and nonaqueous solvents.

Cogan, Uri (T. Nishida, Adviser), Physicochemical studies of human plasma lipoproteins and of lipid dispersions.

Danziger, Michael T. (M. P. Steinberg, Adviser), Storage and drying of high moisture field corn.

Egwin, Peter O. (F. A. Kummerow, Adviser), Nutritional and metabolic consequences of partially hydrogenated fat in the rat.

Halfman, Clarke J. (T. Nishida, Adviser), Fluorescence properties of bovine serum albumin as influenced by association with long chain ligands.

Jaynes, Hugh O. (R. M. Whitney, Adviser), A study of the resin contact time method for the determination of bound calcium.

Pierson, Merle D. (Z. J. Ordal, Adviser), The metabolism of glucose and citrate by heat-injured *Salmonella typhimurium* 7136.

Porter, Vernon L. (A. I. Nelson, Adviser), The

effect of microwave finish-drying and other process factors on quality of potato chips.

Shanbhag, Sudhakar (M. P. Steinberg, Adviser), Bound water defined at constant temperature by wide-line NMR.

Shukla, Triveni P. (J. Tobias, Adviser), Factors affecting the susceptibility of milk lipids to oxidation.

Wang, Feng-Jou (L. Wei, Adviser), Effect of biochemical and processing treatments on pungency and color stability of horseradish sauce.

Williams, Joseph L. (D. Sgoutas, Adviser), Chemical synthesis of cyclopropanoid fatty esters and their inhibition of the liver desaturase system.

FORESTRY

BOGGESS, WILLIAM R., Professor
and Head of Department

Articles

With J. W. Geis

Soil vegetation relationships in a prairie-grove remnant. *Bulletin Torrey Botanical Club*, 97:196-203.

With J. W. Geis, J. D. Alexander

Early effects of forest vegetation and topographic position on dark-colored, prairie-derived soils. *Soil Science Society of America Proceedings*, 34:105-11.

With R. J. Miller

Improving environmental quality—a major goal of agricultural research. *Illinois Research*, 12, 4:3.

Bulletins and Technical Reports

With R. A. Young, A. R. Gilmore

Growing hardwoods in a pine plantation. *Illinois Research*, 12, 2:8-9.

With R. L. Tortorelli

Breaking dormancy of oak seedlings. *Illinois Agricultural Experiment Station Forestry Research, Report No. 70-4*, University of Illinois, 2 pp.

CHOW, POO, Assistant Professor

Articles

Shelving from wood particleboard. *Illinois Research*, 12, 3:5.

The deflection of composite furniture panels under constant bending stress. *Forest Products Journal*, 20, 12:44-51.

FISHER, RICHARD F., JR., Assistant Professor

Articles

Basic soil fertility and tree growth. In *Proceedings international shade tree conference*, Chicago, pp. 77-85.

With E. L. Stone

Root zone effect of young conifers. *New York Food and Life Science Quarterly*, 3, 3:16-17.

FOX, HOWARD W., Assistant Professor

Articles

Sheared tree quality ratings of Scotch pine seed sources at Mississippi Forest. *American Christmas Tree Journal*, 14, 3:45-48.

With R. G. Rennels

The pales weevil—a serious pest in Illinois. *Ibid.*, 1:17-18.

GILMORE, ALVAN R., Professor

Articles

Some factors related to wood specific gravity

of shortleaf pine in southern Illinois. *Transactions of the Illinois State Academy of Science*, 63, 4:366-69.

With R. A. Young, W. R. Boggess

Growing hardwoods in a pine plantation. *Illinois Research*, 12, 2:8-9.

With R. A. Young, I. I. Holland

Getting better returns from mail questionnaires. *Journal of Forestry*, 68, 11:723-24.

GUIHER, JOHN K., Assistant Professor

Articles

M-ethylphenol-formaldehyde resin as an adhesive for wood. *Forest Products Journal*, 20, 5:21-23.

With C. S. Walters

Treating gum crossites at high Lowry pressure. *Proceedings of the American Wood-Preservers' Association*, 66:258-59.

HOLLAND, I. IRVING, Professor

Articles

Forecasting wood products consumption. *Forest Products Journal*, 20, 2:13-16.

With T. R. Yocum

Residues from wood-using industries. *Illinois Research*, 12, 4:14-15.

With R. A. Young, A. R. Gilmore

Getting better returns from mail questionnaires. *Journal of Forestry*, 68, 11:723-24.

LORENZ, RALPH W., Professor

Articles

The growth of ponderosa pine in Illinois limited by the needle blight. *Transactions of the Illinois State Academy of Science*, 63, 4:401-8.

Bulletins and Technical Reports

With C. F. Bey

Pitch pine x loblolly hybrid pines—mixed results from 7-year-old midwestern plantations. *Illinois Agricultural Experiment Station Forestry Research, Report No. 70-3*, University of Illinois, 4 pp.

RENNELS, ROBERT G., Associate Professor

Articles

With H. W. Fox

The pales weevil—a serious pest in Illinois. *American Christmas Tree Journal*, 14, 1:17-18.

Bulletins and Technical Reports

The 1969 Illinois forest insect situation. *Illinois Agricultural Experiment Station Forestry Research, Report No. 70-1*, University of Illinois, 4 pp.

Recommended spray formulations for insect outbreaks in Illinois Christmas tree plantations. *Ibid.*, No. 70-2, 3 pp.

The 1970 forest insect situation. *Ibid.*, No. 70-3, 3 pp.

WALTERS, CHARLES S., Professor

Articles

Partridge wood: a novelty wood. *Forest Products Journal*, 20, 4:42.

With J. K. Guiber

Treating gum crossites at high Lowry pressure. *Proceedings of the American Wood-Preservers' Association*, 66:258-59.

With J. O. Curtis, A. H. Jensen

Slotted wood floors for swine. *Agricultural Engineering*, 51, 5:310-11.

With J. A. Whittington

The effect of treating pressure on preservative absorption and on the mechanical prop-

erties of wood. II. Douglas-fir. *Proceedings of the American Wood-Preservers' Association*, 66:179-93.

YOCOM, THEODORE R., Associate Professor

Articles

With J. B. Gartner, D. C. Saupe,

R. A. Kundrot

Hardwood bark fiber is used for growing, mulching, and packaging of ornamental plants. *Illinois Research*, 12, 1:6-7.

With I. I. Holland

Residues from wood-using industries. *Ibid.*, 4:14-15.

With D. C. Saupe, J. E. Klett, J. B. Gartner

Hardwood bark as a medium for container growing. *American Nurseryman*, 131, 8:11, 40-42.

With D. C. Saupe, J. B. Gartner

Hardwood bark fiber may be valuable to grow mulch and pack ornamental crops. *Home and Gardener Supply Merchandiser*, 21, 3:16-17.

YOUNG, ROBERT A., Forester

Articles

Fomes annosus — a threat to our pine plantations. *Outdoor Illinois*, 9, 9:29-32.

With A. R. Gilmore, W. R. Boggess

Growing hardwoods in a pine plantation. *Illinois Research*, 12, 2:8-9.

With I. I. Holland, A. R. Gilmore

Getting better returns from mail questionnaires. *Journal of Forestry*, 68, 11:723-24.

Bulletins and Technical Reports

With G. H. Fechner

Forestry school training — the employer's view. *Illinois Agricultural Experiment Station Forestry Research Report No. 70-5*, University of Illinois, Urbana, 7 pp.

Characteristics differ between self-registering and nonregistering campers at a campground in southern Illinois. *Illinois Agricultural Experiment Station Forestry Research Report No. 70-6*, University of Illinois, Urbana, 5 pp.

FRENCH

ALDRIDGE, A. OWEN, Professor

See Comparative Literature.

BOWEN, BARBARA C., Associate Professor

Articles

What does Montaigne mean by *marqueterie*? *Studies in Philology*, 67, 2:147-55.

Reviews

La Langue et le style du théâtre comique français des XVe et XVIe siècles: les Composés, by Halina Lewicka. *Modern Language Review*, 65, 3:623-24.

BOWEN, VINCENT E., Associate Professor

Articles

Unpublished letters, by Pierre Bayle. *Studies in Philology*, 66, 1:104-17.

JAHIEL, EDWIN, Professor

Articles

Cannes: changing times. See, 4, 3:12-16.
Mondes et écrans: anciens, nouveaux, et tiers. *Contacts*, 1, 3:32-60.

Reviews

Yannis Ritsos, by Chrysa Papandreou, *Books Abroad*, 43, 3:463-64.

Le Ballet de Modène; entre confrères, by Pierre-Henri Simon. *Ibid.*, 4:558-59.

Grotowski, by Raymonde Temkine. *Ibid.*, 44, 1:148-49.

Pezografi tou kerou mas, by Apostolos Sahinis. *Ibid.*, 44, 1:168-69.

O Soprakómitis, by Dionysios Romás. *Ibid.*, 44, 1:168-69.

Les dossier 51, by Gilles Perrault. *Ibid.*, 44, 2:260.

Les grilles, by Maria Papadimitriou. *Ibid.*, 44, 2:350-51.

The flaw, by Antonis Samarakis. *Ibid.*, 44, 2:351.

Tomorrow's education: the French experience, by Jean Capelle. *Educational Forum*, 33, 3:388-89.

JENKINS, FREDERIC M., Associate Professor

Reviews

Elements of general phonetics, by David Abercrombie. *Studies in Linguistics*, 21:119-24.

JOST, FRANÇOIS, Professor

See Comparative Literature.

KNUDSON, CHARLES A., Professor

Articles

Les versions norroises des romans de Chrétien de Troyes: le cadre. In *Mélanges offerts à Jean Frappier*, Droz, Geneva and Paris, 1:533-41.

KOLB, PHILIP, Professor

Books Edited

Marcel Proust, Correspondence. Texte établie, présenté et annoté par Philip Kolb. Tome 1, 1880-1895. Plon, Paris, 486 pp.

Articles

Deux lettres de Curtius à Proust. *Bulletin de la Société des Amis de Marcel Proust et des Amis de Combray*, 20:945-51.

Lettres inédites de Marcel Proust. *La Revue Des Deux Mondes*, 11:279-95.

MYERS, M. KEITH, Associate Professor

Articles

Platonic pubescence: the instructional computer comes of age. *Newsletter of the National Association of Language Laboratory Directors*, 4, 4:57-62.

With J. P. Gilpin

PLATO: the teacher's mentor — dialogues with a computer. *Language Federation Bulletin*, 21, 3:4-6.

NACHTMANN, FRANCIS W., Professor

Books

Exercises in French phonics. Scott, Foresman and Co., Glenview, Illinois, 79 pp.

NELSON, ROBERT J., Professor

Books Edited

With L. A. Jakobovits

Motivation in foreign language learning. In *1970 Northeast conference on the teaching of foreign languages*, pp. 31-104.

Articles

A modern curriculum in French studies. *French Language Education: The Teaching of Culture in the Classroom*, 2, 2:25-32.

PRICE, LARKIN B., Associate Professor

Reviews

Marcel Proust and deliverance from time,

second ed., by Germaine Brée. *French Review*, 43, 4:686-87.

The imagery of Proust, by Victor E. Graham. *French Review*, 44, 1:226-27.

RIVERS, WILGA M., Professor

Articles

Teacher-student relations — coercion or cooperation. In *New teachers for new students*, ed. by Z. Hanzeli, Washington Foreign Language Program and ACTFL, New York, pp. 45-51.

TALBOT, EMILE J., Assistant Professor

Reviews

Les Métamorphoses de la liberté, ou Stendhal devant la Restauration et le Risorgimento, by H. F. Imbert. *L'Esprit Créateur*, 10, 3: 259-61.

The novel of worldliness: Crébillon, Marivaux, Laclos, Stendhal, by Peter Brooks. *Stendhal Club*, 13, 49:70-72.

VELAN, YVES C., Professor

Books

Je. Le Livre du Mois, Lausanne, Switzerland, 327 pp.

Articles

Je. *TriQuarterly Review*, 20:328-43.

WEISZ, PIERRE, Associate Professor

Articles

Langage et imagerie chez Jacques Prévert. *The French Review* 43, Special Issue No. 1:33-43.

DOCTORAL DISSERTATIONS

Butturff, Diane L. (J. Hubert, Adviser), *The Ambigu de Vers et de Prose: The art of poetic satire in seventeenth century France*.

Malet, Jacques F. L. (H. C. De Ley, Jr., Adviser), *Le subjectivisme de Pascal étudié à travers quelques analogies des Pensées*.

Root, Tamara G. (H. C. De Ley, Jr., Adviser), Robert Challe's *Les Illustres Françaises: social realism and some intellectual traditions of the seventeenth century*.

Stevenson, Julie C. (F. Jost, Adviser), *L'Idéal formateur dans le roman français du XVIII^e siècle*.

Trail, Guy T. (F. Jost, Adviser), *The commerce of art and philosophy in Malraux*.

GENERAL ENGINEERING

BORRI, ROBERT P., Associate Professor

Articles

Memorial to Dean Harvey Herbert Jordan. *Engineering Design Graphics Journal*, 34, 1:8-9.

DOBROVOLNY, JERRY S., Professor and Head of Department

Articles

Staff qualifications for technical education programs. *Industrial Arts and Vocational Education — Technical Education Supplement*, 59, 1:2-5.

Factors to consider in planning technical education facilities. *Ibid.*, 3:1.

Removing the second rate label from technical education. *Ibid.*, 5:6-8.

Technical education needs relevant support courses. *Ibid.*, 6:1-2.

HAPP, WILLIAM W., Professor

Books Edited

Special issue on educational aspects of circuit design, vol. 1. *IEEE Transactions E-12/3*, New York, 75 pp.

Special issue on educational aspects of circuit design, vol. 2. *IEEE Transactions E-12/4*, New York, 86 pp.

Articles

Systems vulnerability due to multiple component drift and component failure. In *Proceedings, Sixteenth Conference on the Design of Experiments in Army Research*, vol. 16, 32 pp.

Display of functional relationships between integer selection criteria. In *Proceedings, Eighth Allerton Conference on Circuit Design and System Theory*, vol. 8, pp. 412-16.

With L. Kerschberg

Eigenfunction propagation in interconnected systems. *Ibid.*, vol. 8, pp. 141-50.

With F. J. McIntosh

Programmed test patterns for multi-terminal devices. In *Proceedings, American Federation of Information Processing Societies, Spring Joint Computer Conference*, AFIPS Press, Montvale, New Jersey, 34:229-40.

Automated circuit design: a challenge to the engineering curriculum. *IEEE Transactions, E-12*, 3:149.

Automated circuit design: from hindsight, a conclusion. *Ibid.*, 4:308.

Bulletins and Technical Reports

With W. C. Bryan, M. Miller, C. K. McLane

The role of computers in aerospace teaching and research. Commission on Engineering Education, C. F. Kettering Foundation, Washington, D.C., 18 pp.

With C. C. Gonzaga, J. O. Ortega

Representacao de criterios de selecao de inteiros aplicados a interconexao de dois sistemas multi-terminals. Coppe Publicao, Universidade Federal do Rio de Janeiro, Brazil, No. 10/70, 25 pp.

With A. D. Sloan

Computer program for dimensional analysis. NASA report TN D-5165, Clearinghouse for Scientific and Technical Information, Springfield, Virginia, 29 pp.

With L. B. Dickson

Development of a model for distributed saturation characteristics in integrated devices. NASA report TN C-128, Clearinghouse for Scientific and Technical Information, Springfield, Virginia, 16 pp.

Design evaluation of distributed saturation characteristic in integrated devices. NASA report TN C-129, Clearinghouse for Scientific and Technical Information, Springfield, Virginia, 16 pp.

MARTIN, GORDON E., Assistant Professor

Books

With participants of the Summer Faculty Systems Design Workshop

Air improvement recommendations for the San Francisco Bay area. Stanford University, Stanford, California, 263 pp.

O'BRYANT, DAVID C., Assistant Professor

Articles

With A. Perlberg

Videotaping and microteaching techniques to improve engineering instruction. *Engineering Education*, 60, 7:741-44.

PEARSON, JOHN E., Professor

Articles

With M. L. Davis

Modeling urban atmospheric temperature profiles. *Atmospheric Environment*, 4:277-88.

With W. E. Bradley

Aircraft measurement of the vertical distribution of radon in the lower atmosphere. *Journal of Geophysical Research*, 75, 30: 5890-94.

STREETER, HARRISON, Assistant Professor

Articles

Effects of localized vibration on the human tactile sense. *American Industrial Hygiene Association Journal*, 31:87-91.

With R. C. Williges

Display characteristics in inspection tasks. *Experimental Publication System*, 1970, 7 MS #259-1:1-6.

GENETICS

DOCTORAL DISSERTATIONS

de la Roche, Andrew I. (D. E. Alexander, Adviser), Genetics and biochemistry of maize lipids.

GEOGRAPHY

ALEXANDER, CHARLES S., Professor

Books

With C. P. Patton, F. L. Kramer

Physical geography. Wadsworth Publishing Co., Belmont, California, 408 pp.

BIER, JAMES A., Cartographer

Books

With H. A. Raup

Campground atlas of the United States and Canada (sixth rev. ed.). Kalmbach Publishing Co., Milwaukee, 314 pp.

JAKLE, JOHN A., Associate Professor

Bulletins and Technical Reports

The spatial dimensions of social organization: a selected bibliography for urban social geography. Council of Planning Librarians, Monticello, Illinois, 50 pp.

MONK, JANICE J., Instructor

Articles

With W. M. Stallings

Effects of item order on test scores. *The Journal of Educational Research*, 63, 10: 463-65.

Bulletins and Technical Reports

Frequency of testing and learning. In *The improvement of college level student achievement through changes in classroom examination procedures*, Office of Instructional Resources, University of Illinois, Urbana, pp. 13-20.

Testing for problem solving in geography. *Ibid.*, pp. B1-B17.

NUNNALLY, NELSON R., Assistant Professor

Articles

A comparison of microdensitometry and TV waveform analysis as expressions of observed landscape patterns on radar. *Applied Optics*, 9:749-51.

With R. E. Witmer

Remote sensing for land-use studies. *Photogrammetric Engineering*, 36, 5:449-53.

ROEPKE, HOWARD G., Professor

Articles

With H. D. Hartnett

Locating to optimize marketing advantages. *Commerce*, 67, 6:15-16, 74-77.

Reviews

The geography of state policies, by J. R. V. Prescott. *The Professional Geographer*, 22, 5:304-5.

RUSSELL, JOSEPH A., Professor

Articles

Sequent occupation. In *World regional geography—Western Europe*, ed. by William Hanne, U.S. Military Academy, West Point, New York, 4:22-25.

SHIMKIN, DEMITRI B., Professor

See Anthropology.

DOCTORAL DISSERTATIONS

Goff, James F. (D. B. Shimkin, Adviser), Soviet mass communications: a geography of political control.

Pearson, Roger W. (D. B. Shimkin, Adviser), Resource management strategies and regional viability: a study of the Great Slave Lake region, Canada.

Price, Larry W. (C. S. Alexander, Adviser), Morphology and ecology of solifluction lobe development—Ruby Range, Yukon Territory.

Smith, Bruce W. (H. G. Roepke, Adviser), Locational analysis of thermal power plants in the Eastern United States.

GEOLOGY

BLAKE, DANIEL B., Assistant Professor

Articles

With R. C. Allison

A new west American Eocene species of the recent Australian Ophiuroid *Ophiocrossota*. *Journal of Paleontology*, 44, 5:925-27.

CAROZZI, ALBERT V., Professor

Books

Carbonate rocks (Limestone and Dolomites) of Lucian Cayeux, updated translation from the French. Hafner Publishing Company, Darien, Connecticut, 506 pp., 26 pl.

With A. N. Iversen

An introduction to the natural history of the terrestrial sphere of Rudolf Erich Raspe, annotated translation from the Latin. Hafner Publishing Company, New York, 381 pp. Includes a facsimile reproduction of the original edition of 1763.

Articles

New historical data on the origin of the theory of continental drift. *Geological Society of America Bulletin*, 81, 1:283-86.

Biographic essay on L. Bellardi. In *Dictionary of scientific biography*, Charles Scribner's Sons, New York, vol. 1, p. 587.

Biographic essay on J. F. Brandt. *Ibid.*, vol. 2, pp. 422-23.

The geological contribution of Rudolf Erich Raspe (1737-1794). *Archives des Sciences, Genève*, 22:625-44.

A propos de l'origine de la théorie des dérivés continentales: Francis Bacon (1620), Francois Placet (1668), A. von Humboldt (1801), et A. Snider (1858). *C. R. Society Physical History Natural, Genève* 4, 3:171-79.

- De Maillet's Telliamed: the theory of the diminution of the sea. *Endeavour*, 29, 108: 140-43.
- Robert Hooke, Rudolf Erich Raspe and the concept of "earthquakes." *Isis*, 61, Part 1, 206:85-91.
- With L. F. Jansa*
Exotic pebbles in LaSalle Limestone (Upper Pennsylvanian), LaSalle, Illinois. *Journal of Sedimentary Petrology*, 40, 2:688-94.
- With J. E. Roche*
Petrography of back-reef carbonates: Traverse Group (Givetian) of the Northern part of the Southern Peninsula of Michigan. *Bulletin, Centre de Recherches, Pau, France*, 4, 1:137-89.
- Reviews**
F. Rodolico: Naturalisti-Esploratori dell'Ottocento Italiano. *Isis*, 60, Part 4, 204:585-87.
- CARTER, JOHN L., Research Associate
Books
With R. C. Carter
Bibliography and index of North American Carboniferous Brachiopods. *Geological Society of America Memoir 128*, Boulder, Colorado, 382 pp.
- CHAPMAN, CARLETON A., Professor
Books
The geology of Acadia National Park. The Chatham Press, Inc., Old Greenwich, Connecticut, 128 pp.
- Reviews**
Eruptive rocks, by S. James Shand. *Journal of Geological Education*, 19, 1:48.
- COLLINSON, CHARLES W., Professor
Articles
With C. B. Rexroad, T. L. Thompson
Conodont zonation of the North American Mississippian. In *Geological Society of America Memoir 124*, Boulder, Colorado, pp. 265-302.
- With G. Clapper, J. W. Huddle, W. Orr, L. V. Richard, and others*
North American Devonian conodont stratigraphy. *Ibid.*, pp. 238-65.
- DEERE, DON U., Professor
See Civil Engineering.
- DONATH, FRED A., Professor and Head of Department
Articles
Rock deformation apparatus and experiments for dynamic structural geology. *Journal of Geological Education*, 18, 1:3-12.
Some information squeezed out of rock. *American Scientist*, 58:54-72.
- FRYE, JOHN C., Professor
Articles
Research and service of the Illinois State Geological Survey. Annual Report, Department of Registration and Education, State of Illinois. *Illinois State Geological Survey Reprint Series, 1970-P*, 23 pp.
State Geological Survey. In *Illinois Blue Book of 1969-70*, pp. 748-54.
- With H. B. Willman*
Rock stratigraphy in the Illinois Pleistocene. 34th Annual Tri-State Field Conference, Northern Illinois University, DeKalb, pp. 60-64.
- Bulletins and Technical Reports**
With H. B. Willman
Pleistocene stratigraphy of Illinois. *Illinois State Geological Survey Bulletin 94*, 204 pp.
- GRIM, RALPH E., Professor Emeritus
Articles
The texture and composition of bentonites. *Israel Journal of Chemistry*, 8:501-4.
- GÜVEN, NECIP, Assistant Professor
Articles
Compositional and structural relationships between phengites and illites. *Clays and Clay Minerals*, 18, 4:233-35.
- HAY, WILLIAM W., Professor
Articles
Calcareous nannofossils from cores recovered on Leg 4. *Initial Reports of the Deep Sea Drilling Project, Washington*, U.S. Government Printing Office, Washington, D.C., vol. 4, pp. 455-501.
- With R. G. Bader, R. D. Gerard, W. E. Benson, H. M. Bolli, and others*
Shipboard Site Reports, Introduction. *Ibid.*, pp. 3-15.
Site 23, *Ibid.*, pp. 17-35.
Site 24, *Ibid.*, pp. 37-57.
Site 25, *Ibid.*, pp. 59-76.
Site 26, *Ibid.*, pp. 77-91.
Site 27, *Ibid.*, pp. 93-123.
Site 28, *Ibid.*, pp. 125-43.
Site 29, *Ibid.*, pp. 145-213.
Site 30, *Ibid.*, pp. 215-41.
Site 31, *Ibid.*, pp. 243-63.
- With W. E. Benson, R. D. Gerard*
Cruise leg synthesis: summary and conclusions. *Ibid.*, pp. 659-73.
- With S. W. Wise, Jr., R. D. Stieglitz*
Scanning electron microscope study of fine grain size biogenic carbonate particles. *Transactions, Gulf Coast Association of Geological Societies*, 20:287-302.
- With F. Wiedenmayer, D. S. Marszalek*
Modern organism communities of Bimini Lagoon and their relation to the sediments. In *Sedimentary environments and carbonate rocks of Bimini, Bahamas*, ed. by P. Supko, D. S. Marszalek, W. B. Bock, Miami Geological Society, pp. 19-33.
- HOLDER, JON T., Assistant Professor
Articles
Thermodynamic properties of solids containing dislocations. In *Fundamental aspects of dislocation theory*, ed. by Simmons, deWit, and Bullough, National Bureau of Standards Publication 317, Washington, D.C., vol. 2, pp. 1223-26.
- With A. V. Granato*
Improvements on pulse superposition velocity measurements. *Review of Scientific Instruments*, 41, 9:1355-56.
Thermal expansion of solids regarding phonons as defects. *Journal of Applied Physics*, 41, 13:5152-54.
- KLEIN, GEORGE deV., Associate Professor
Articles
Tidal origin of a Precambrian Quartzite—the Lower Fine-grained Quartzite (Middle Dalradian) of Islay, Scotland. *Journal of Sedimentary Petrology*, 40, 3:973-85.

LANGENHEIM, RALPH L., JR., Professor

Articles

With R. W. Pierce

Surface patterns on selected Mississippian conodonts. *Geological Society of America Bulletin*, 81, 11:3225-36.

MANN, C. JOHN, Associate Professor

Articles

Randomness in nature. *Geological Society of America Bulletin*, 81:95-104.

On randomness and determinism: reply. *Ibid.*, 3187-89.

Randomness in nature: reply. *Ibid.*, 3195-96.

Isochronous, synchronous, and coetaneous. *Journal of Geology*, 78:749-50.

With R. A. Semple

Computer reduction and plotting of marine sediment data. *Marine Technical Society Journal*, 4:53-57.

SANDBERG, PHILIP A., Associate Professor

Articles

Scanning electron microscopy of freeze-dried Ostracoda (Crustacea). *Transactions American Microscopy Society*, 89, 1:113-24, 14 figs.

Bulletins and Technical Reports

With J. L. Eades

Characterization of the properties of commercial lime by surface area measurements and scanning electron microscopy. *American Society for Testing Materials*, Special Technical Publication 472.

WHITE, GEORGE W., Research Professor

Books Edited

James Hutton's system of the earth, 1785; theory of the earth, 1788; observations on granite, 1794; together with Playfair's biography of Hutton. *Contributions to the History of Geology*, vol. 5. Hafner Publishing Company, Darien, Connecticut, 203 pp. (Facsimiles of originals with Foreword.)

Travels through the western country in the summer of 1816, by David Thomas. *Contributions to the History of Geology*, vol. 6. *Ibid.*, 338 pp. (Facsimile of 1819 edition, with Foreword and Notes.)

Articles

Announcement of glaciation in Scotland, William Buckland (1784-1856). *Journal of Glaciology*, 9, 55:143-45.

William Maclure was a uniformitarian and not a real Wernerian. *Journal of Geological Education*, 18:127-28.

Early American publications on the history of geology. *History of Geology, Papers Read at Constituent Assembly of International Committee on History of Geology, Yerevan, 1967:114-29*. In Russian with English summary.

Reviews

Short reviews in *Ninety-third critical bibliography of the history of science and its cultural influence*. *Isis*, 59, 5:42-45, 62, 74, 122-24, 152-54, 172, 186, 193.

The Colorado River Region and John Wesley Powell, by Mary C. Rabbitt, Edwin D. McKee, and others. *Ibid.*, 61:285-87.

John Wesley Powell and the anthropology of the Canyon Country, by Don D. Fowler, Robert C. Euler, Catherine S. Fowler. *Ibid.*, 61:285-87.

The hydrologic cycle and the wisdom of God: a theme in geoteology, by Yi-Fu Tuan.

British Journal for the History of Science, 5, Pt. 2:196-97.

Lewis and Clark: pioneering naturalists, by Paul Russell Cutright. *Ohio Journal of Science*, 70:192.

Short reviews in *Ninety-fourth critical bibliography of the history of science*. *Isis*, 60: 5:41-42, 121-24, 155, 188.

WOOD, DENNIS S., Assistant Professor

Reviews

The geology of Western Europe, by M. G. Rutten. *Journal of Geological Education*, 18, 5:207-8.

DOCTORAL DISSERTATIONS

Kiefer, John D. (R. L. Langenheim, Adviser), Pre-Chattanooga Devonian stratigraphy of Alabama and northwest Georgia.

Lin, Chang-Lu (D. U. Deere, Adviser), Digital simulation of a stream-aquifer system.

Masters, Bruce A. (W. W. Hay, Adviser), Stratigraphy and planktonic foraminifera of the Upper Cretaceous Selma Group, Alabama.

Rao, C. Prasada (A. V. Carozzi, Adviser), Applications of computer techniques to the petrographic study of oolitic environments, Ste. Genevieve Limestone (Mississippian), southern Illinois and eastern Missouri.

Stieglitz, Ronald D. (W. W. Hay, Adviser), Scanning electron microscopy of the fine fraction of recent carbonate sediments from Bimini, Bahamas.

White, Owen L. (D. U. Deere, Adviser), Pleistocene geology of the Bolton Area, Ontario (30 M/13).

Wise, Sherwood W., Jr. (W. W. Hay, Adviser), Scanning electron microscope study of molluscan shell ultrastructures.

Worsley, Thomas R. (W. W. Hay, Adviser), The nature of the terminal cretaceous event as evidenced by calcareous nannoaplankton extinctions in Alabama and other areas.

Wright, William H., III (F. A. Donath, Adviser), Rock deformation in the slate belt of west-central Vermont.

GERMANIC LANGUAGES AND LITERATURES

ANTONSEN, ELMER H., Professor

Articles

Toward a new Runic grammar. In *The Nordic languages and modern linguistics*, ed. by Benediktson and Hreinn, Vísindafélag Íslendinga, Reykjavík, pp. 313-21.

Old High German and the laws of final syllables. *Studies in Linguistics*, 21:55-76.

Reviews

Altdeutsches Wörterbuch, by Rudolf Schützeichel. *Journal of English and Germanic Philology*, 69, 2:333-34.

BURKHARD, MARIANNE, Assistant Professor

Articles

Vergessen und Erinnern in Meyers "Angela Borgia." *Literaturbeilage der Neuen Zürcher Zeitung*, 191, 484:49.

Reviews

Wege zum Symbolismus. Zur Entstehungsgeschichte dreier Gedichte Conrad Ferdinand Meyers, by Beatrice Sandberg-Braun. *Journal of English and Germanic Philology*, 69, 4:709-13.

FOLTER, ROLAND, Assistant Professor

Articles

With R. G. Warnock

The German pattern poem: a study in mannerism of the seventeenth century. In *Festschrift für Detlev W. Schumann*, ed. by Albert R. Schmitt, Delp, Munich, pp. 40-73.

FIGGE, RICHARD C., Assistant Professor

Reviews

Heinrich Heine, the elusive poet, by Jeffrey L. Sammons. *Journal of English and Germanic Philology*, 69, 4:713-14.

FREY, JOHN R., Professor

Articles

Das Satirische beim frühem Schiller. In *Festschrift für Detlev W. Schumann*, ed. by A. R. Schmitt, Delp, Munich, pp. 173-84.
Anglo-German literary bibliography. *Journal of English and Germanic Philology*, 69, 3:470-75.

Reviews

Schiller: the dramatic writer, by H. B. Garland. *Journal of English and Germanic Philology*, 69, 491-93.

GERLACH, U. HENRY, Assistant Professor

Reviews

Deutsche Dramaturgie des 19. Jahrhunderts (Deutsche Texte, 10), by Benno v. Wiese. *Journal of English and Germanic Philology*, 69, 1:149-50.
Deutsche Novellen von Tieck bis Hauptmann, by Peter A. Foulkes and Edgar Lohner. *German Quarterly*, 43, 1:136-37.

HAILE, HARRY G., Professor

Articles

Learning about language. *Modern Language Journal*, 54, 2:121-25.
Outline for graduate study of German literature. *Monatshefte*, 62, 2:135-40.

LORBE, RUTH E., Associate Professor

Reviews

Twentieth-century German literature, ed. by August Closs. *Journal of English and Germanic Philology*, 69, 3:502-6.

MARCHAND, JAMES W., Professor

Articles

Gotisch. In *Kleiner Grundriss der germanischen Philologie*, ed. by L. W. Schmitt, Walter de Gruyter, Berlin, pp. 94-122.
The German side of the Elbing vocabulary. In *Baltic linguistics*, ed. by T. F. Magner and W. R. Schmalstieg, Pennsylvania State University Press, University Park, pp. 109-19.
Der phonemische Stellenwert des ahd. *e*. In *Vorschläge für eine strukturelle Grammatik des Deutschen*, Darmstadt, pp. 575-85.

Reviews

Die lateinische Etymologie des Mittelalters, by Roswitha Klink. *Journal of English and Germanic Philology*, 69, 4:719-23.
Formal aspects of Medieval German poetry, by Stanley N. Werbow. *Ibid.*, pp. 695-98.
Handbuch der deutschen Literaturgeschichte. Abteilung Bibliographien. Band 4. Zeitalter der Renaissance, des Humanismus und der Reformation, by James E. Engel. *Ibid.*, pp. 691-92.
Handbuch der deutschen Literaturgeschichte. Abteilung Bibliographien. Band 2. Hohes

Mittelalter, by Michael Batts. *Ibid.*, pp. 689-91.

Exemplarische Romanen im Mittelenglischen, by Hanspeter Schelp. *Ibid.*, pp. 666-67.

McGLATHERY, JAMES M., Assistant Professor

Articles

Fear of perdition in Droste-Hülshoff's "Judenbuche," *Festschrift für Heinrich Henel*. In *Lebendige Form*, ed. by J. Sammons and E. Schürer, Wilhelm Fink Verlag, Munich, pp. 229-44.

Reviews

Kleist's Prinz Friedrich von Homburg, by Mary Garland. *Journal of English and Germanic Philology*, 69, 2:348-50.

MITCHELL, P. M., Professor

Books

Vilhelm Grønbech. En indføring. Gyldendal, Copenhagen, 256 pp.

Reviews

Hölderlin. Sämtliche Werke VII/1, ed. by Adolf Beck. *Journal of English and Germanic Philology*, 69, 3:497-98.
En fortolkning af "Høit fra Træets grønne Top," by Erik M. Christensen. *Orbis litterarum*, 25, 4:236.

PHILIPPSON, ERNST A., Professor Emeritus

Reviews

Anton Ulrich and Aramena. The genesis and development of a baroque novel, by Blake Lee Spahr. *Monatshefte*, 60, 3:288-90.
Des Melchior Adam Pastorius von 1670 bis 1696 Bürgermeisters von Windsheim Leben und Reisebeschreibungen, ed. by Albert R. Schmitt. *Journal of English and Germanic Philology*, 68, 4:744-46.
De Harigasti-Inscripte op Helm B. van Negau. Haar betekenis voor de Oebergermaanse klankeer en voor het Problem van de oorsprong der runen, by F. de Tollenaere. *Ibid.*, 4:735-37.
German baroque literature. A catalogue of the collection in the Yale University Library, vol. 2, by Curt von Faber du Faur. *Ibid.*, 69, 2:341-42.

RAUCH, IRMENGARD, Associate Professor

Articles

"Heliand" i-umlaut evidence for the original dialect position of old Saxon. *Lingua*, 24, 4:365-73.

Reviews

Mittelhochdeutsch, by Els Oksaar. *Monatshefte*, 62, 2:178-82.
Introductory linguistics, by Robert A. Hall, Jr. *Ibid.*, pp. 182-84.

SCHIER, RUDOLF D., Associate Professor

Books

Die Sprache Georg Trakls. Carl Winter Universitätsverlag, Heidelberg, 107 pp.

Reviews

Die Dichtung Georg Trakls. Von der Trivialsprache zum Kunstwerk, by Regine Blass. *Journal of English and Germanic Philology*, 69, 2:373-74.

FON WEARINGA, JUW, Assistant Professor

Reviews

Einführung in das Friesische, by Bo Sjölin. *Journal of English and Germanic Philology*, 69, 4:723-25.

DOCTORAL DISSERTATIONS

Bangerter, Lowell A. (J. R. Frey, Adviser), Schiller and Hofmannsthal.

Breidenbach, Heribert (H. Stegemeier, Adviser), Der Emblematischer Jeremias Drexel S. J. (1581-1638) mit einer Einführung in die Jesuitenemblemantik und einer Bibliographie der Jesuitenemblembücher.

Rauter, Thomas C. (P. M. Mitchell, Adviser), The eighteenth-century "Deutsche Gesellschaft": a literary society of the German middle class.

Wilson, David J. (J. R. Frey, Adviser), Rhetorical imagery in the narrative prose works of Robert Musil.

GOVERNMENT AND PUBLIC AFFAIRS,
INSTITUTE OF

BORDUA, DAVID, Professor
See Sociology.

FISHER, GLENN W., Professor
Bulletins and Technical Reports
With L. L. Simonson

Recent developments in Illinois municipal financial management. Commission papers of the Institute of Government and Public Affairs, University of Illinois, Urbana, 34 pp.

GOVE, SAMUEL K., Professor and Director
Books Edited

Con con: issues for the Illinois constitutional convention. University of Illinois Press, Urbana, 512 pp.

Articles
With R. J. Carlson

The legislature. In *Con con: issues for the Illinois constitutional convention*, University of Illinois Press, Urbana, pp. 101-24.

JUDD, DENNIS, Research Associate
Articles

The model cities program in East St. Louis, Illinois: the planning experience. *Illinois Government*, 33, 6 pp.

MERANTO, PHILIP J., Assistant Professor
Books

School politics in the metropolis. Charles Merrill Press, Columbus, Ohio, 167 pp.

Books Edited

The Kerner report revisited. Final report and background papers of University of Illinois Assembly on the Kerner Report Revisited. Institute of Government and Public Affairs, University of Illinois, Urbana, 178 pp.

MURRAY, MICHAEL A., Assistant Professor
Articles

Responses to the Kerner report housing recommendations. In *The Kerner report revisited*, ed. by Philip J. Meranto, Institute of Government and Public Affairs, University of Illinois, Urbana, pp. 45-58.

PISCOTTE, JOSEPH P., Assistant Professor
Articles

The potential of con con. *Illinois Business Review*, 27, 10:6-8.

With T. R. Kitsos

State legislative reaction to the Kerner Commission report: the case of Illinois. In

The Kerner report revisited, ed. by Philip J. Meranto, Institute of Government and Public Affairs, University of Illinois, Urbana, pp. 97-118.

WATSON, JO ANNA M., Research Associate
Articles

Business licensing as a constitutional issue. *Illinois Business Review*, 27, 6:6-8.

Bulletins and Technical Reports

Municipal licensing of business and occupations: a survey of practices in Illinois and other states. Commission papers of the Institute of Government and Public Affairs, University of Illinois, Urbana, 60 pp.

HEALTH AND SAFETY EDUCATION

CONLEY, JOHN A., Assistant Professor

Articles

With W. J. Huffman

The written driver-licensing examination as a technique in driver education. *Highway Safety, Highway Research Board*, 107: 15-33.

Bulletins and Technical Reports

With W. J. Huffman, T. M. Timpany

The revision of the Illinois high school driver education knowledge test of traffic laws and rules for driver performance. Office of Superintendent of Public Instruction, Springfield, Illinois, 96 pp.

CRESWELL, WILLIAM H., JR., Professor

Books Edited

With W. J. Huffman, D. B. Stone

Youth smoking behavior characteristics and their educational implications. University of Illinois Press, Urbana-Champaign, 164 pp.

Articles

With R. P. Irwin, D. J. Stauffer

The effect of the teacher and three different classroom approaches on seventh grade students' knowledge, attitudes and beliefs about smoking. *Journal of School Health*, 40: 355-59.

Bulletins and Technical Reports

With others

Community education for health. American College Health Association, Evanston, Illinois, 20 pp.

FLORIO, AURELIO E., Professor

Books Edited

Bicycle rules of the road. Illinois Secretary of State, Springfield, Illinois, 81 pp.

Articles

Accident prevention in specific sports. *Annual Safety Education Review*, 1970: 39-42.

With T. W. O'Rourke, D. J. Stauffer

Comparison of attitudes toward driver education of selected high school youth. *Journal of Illinois and College Driver Education Association*, 4, 2:9-11.

Reviews

In-car instruction: method and content, by William G. Anderson. *Contemporary Education (Indiana State University)*, 41, 4:197.

HOYMAN, HOWARD S., Professor

Articles

Should we teach sexual ethics in our schools? *The Journal of School Health*, 40, 7: 339-46.

An editorial: health and a living faith. *Ibid.*, 6:279-80.

An ecological approach to health education. *Archives of Environmental Health*, 20, 1:92-95, 137-38.

Sex and American college girls today. In *Selected Readings in Health*, MacMillan Co., Toronto, pp. 338-48.

HUFFMAN, WARREN J., Professor

Books Edited

With W. H. Creswell, Jr., D. B. Stone

Youth smoking behavior characteristics and their educational implications. University of Illinois Press, Urbana-Champaign, Illinois, 164 pp.

Articles

With J. A. Conley

The written driver-licensing examination as a technique in driver education. *Highway Safety, Highway Research Board*, 107: 15-33.

With F. A. Clark, Jr.

Seniors' evaluation of the Illinois high school driver education program. *Illinois High School and College Driver Education Quarterly*, 4, 4:2-8; 5, 1:3-12.

Bulletins and Technical Reports

With R. C. Williges

Effects of alcohol on decision-making behavior in a visual detection task. Highway Traffic Safety Center, University of Illinois, Urbana-Champaign, Illinois, 24 pp.

With T. M. Timpany, J. A. Conley

The revision of the Illinois high school driver education knowledge test of traffic laws and rules for driver performance. Office of Superintendent of Public Instruction, Springfield, Illinois, 96 pp.

O'ROURKE, THOMAS W., Assistant Professor

Articles

A prospective epidemiological analysis of youth smoking. In *Youth smoking behavior characteristics and their educational implications*, ed. by Creswell, Huffman, and Stone, University of Illinois Press, Champaign-Urbana, pp. 59-68.

With A. E. Florio, D. J. Stauffer

Comparison of attitudes toward driver education of selected school youth. *Illinois High School and College Driver Education Association Quarterly*, 4, 2:9-12.

STONE, DONALD B., Associate Professor

Books Edited

With W. H. Creswell, Jr., W. J. Huffman

Youth smoking behavior characteristics and their educational implications. University of Illinois Press, Urbana-Champaign, Illinois, 164 pp.

Articles

With W. H. Creswell, Jr., M. Robinson

Proceedings from man's health and his environment. *Archives of Environmental Health*, 20: 72-140.

HEALTH SERVICE

KOERTGE, HENRY H., Sanitary Engineer

Articles

The turbidity of public swimming pool waters. *American Journal of Public Health*, 60, 1:138-50.

NIKELLY, ARTHUR G., Clinical Psychologist and Associate Professor of Health Science

Articles

The centennial of Alfred Adler. *Acta Neurologica et Psychiatrica Hellenica*, 9, 3:165-76.

Reviews

Counseling for the liberal arts campus: the Albion symposium, by J. C. Heston and W. B. Frick. *Journal of Individual Psychology*, 26, 2:243.

Modern treatment of tense patients, by E. Jacobson. *Ibid.*, p. 243.

Birth order and life roles, by L. K. Forer. *Ibid.*, p. 241.

Introduction to college, by B. D. Anderson. *Ibid.*, p. 237.

WALTERS, ORVILLE S., Research Professor

Articles

Prevalence of diagnosed emotional disorders in university students. *Journal of American College Health Association*, 18:204-9.

Reviews

Clinical psychiatry and religion, by E. Mansell Pettison. *Journal of Christian Medical Society*, 22:22-23.

HISTORY

BATES, J. LEONARD, Professor

Reviews

TR and WILL: a friendship that split the Republican Party, by William Manners. *Annals of the American Academy of Political and Social Science*, 391, September: 203.

BERNARD, PAUL P., Professor

Articles

Joseph II and the Jews. *Austrian History Yearbook*, 4-5: 101-19.

Reviews

The Czech Revolution of 1848, by Stanley Z. Pech. *The Journal of Modern History*, 42, 4:671-72.

Ideas of religious toleration at the time of Joseph II, by Charles H. O'Brien. *The Catholic Historical Review*, 56, 3:571-72.

DAWN, C. ERNEST, Professor

Articles

Pan-Arab diplomacy: romanticism or calculation? *Princeton Near East Papers*, 12:1-13.

Reviews

Turkey, by Roderic Davison. *The Social Studies*, 61, 4:184.

A modern history of Syria, by A. L. Tibawi. *American Historical Review*, 75, 7:2098.

FISHER, RALPH T., Professor

Books Edited

With G. Vernadsky

Dictionary of Russian historical terms from the eleventh century to 1917, compiled by Sergei G. Pushkarev. Yale University Press, New Haven, Connecticut, 199 pp.

Reviews

An historical geography of Russia, by W. H. Parker. *Russian Review*, 29, 3:343-44.

The beginnings of Russian industrialization, 1800-1860, by William L. Blackwell. *Slavic Review*, 29, 3:508-10.

HILL, BENNETT D., Associate Professor

Books Edited

Church and state in the middle ages. John Wiley & Sons, Inc., New York, 210 pp.

Reviews

Mary Tudor; the white queen, by Walter Richardson. *Library Journal*, 95, 13:2460-61.

HITCHINS, KEITH A., Professor

Books

Studii privind istoria modernă a Transilvaniei. Editura Dacia, Cluj, 163 pp.

With L. Maier

Correspondenta lui Ioan Ratiu cu George Baritiu 1861-1892. Editura Dacia, Cluj, 254 pp.

Books Edited

Rumanian Studies, vol. 1. E. J. Brill, Leiden, The Netherlands, 225 pp.

Articles

Romania: legal history: government and politics. In *Southeastern Europe: a guide to basic publications*, ed. by Paul L. Horecky, University of Chicago Press, Chicago and London, pp. 362-64; 369-83.

Andrei Saguna and Catharine Varga: a new document. *Revue des Etudes Roumaines*, 11-12:183-87.

The Rumanians of Transylvania and the Congress of Nationalities. *Slavonic and East European Review*, 48, 112:388-402.

Romanian opposition to the Austro-Hungarian compromise of 1867. *Studia et Acta Musei Nicolae Bălcescu*, 1:133-37.

With L. Jordáky

The history of the Habsburg monarchy (1789-1918) in Romanian historiography since 1945. *Austrian History Yearbook*, 4-5:303-34.

Reviews

Acta Musei Napocensis, vol. 5. *American Historical Review*, 75, 2:541-42.

Relatiile agrare din secolul al XVIII-lea în Moldova, by V. Mihordea. *Ibid.*, 1:162-63.

Die nationale frage in der Österreichisch-Ungarischen Monarchie 1900-1918, ed. by Peter Hanak. *Austrian History Yearbook*, 4-5:487-91.

România si Antanta Balcanica, by Cristian Popisteanu. *Canadian Slavic Studies*, 4, 1:133-34.

La formation du peuple roumain et de sa langue, by Constantin Daicoviciu and others. *Ibid.*, 3, 1:147-48.

Lupta Românilor pentru unitatea națională 1834-49, by Cornelia Bodea. *Ibid.*, 3, 3:600-601.

The new Rumania: from people's democracy to socialist republic, by Stephen Fischer-Galati. *The Journal of Modern History*, 42, 3:468-69.

JOHANNSEN, ROBERT W., Profesor

Books Edited

Reconstruction, 1865-1877. The Free Press, New York, 215 pp.

Articles

The sixty-third annual meeting of the Organization of American Historians. *Journal of American History*, 57, 2:367-91.

Reviews

A historian's progress, by Roy F. Nichols. *Civil War History*, 16:73-75.

Prairie state: impressions of Illinois, 1673-1967, by travelers and other observers, ed. by Paul M. Angle. *Western Historical Quarterly*, 1:194-95.

Forging a majority: the formation of the

Republican Party in Pittsburgh, 1848-1860, by Michael F. Holt. *Journal of Southern History*, 36:281-83.

The papers of Ulysses S. Grant, vol. 2, April-September, 1861, ed. by John Y. Simon. *Pacific Northwest Quarterly*, 61: 172.

KLING, BLAIR B., Associate Professor

Articles

Entrepreneurship and regional identity in Bengal. In *Bengal regional identity*, ed. by David Kopf, Asian Studies Center, Michigan State University, East Lansing, pp. 75-84.

KRUEGER, THOMAS A., Associate Professor

Reviews

The reconstruction of southern education, by Gary Orfield. *The Journal of American History*, 56:959-60.

The politics of war; the world and United States foreign policy, 1943-1945, by Gabriel Kolko. *The Journal of the Illinois State Historical Society*, 63:98-102.

Ideologies and utopias; the impact of the New Deal on American thought, by Arthur A. Ekirch, Jr. *Ibid.*, pp. 439-40.

Vito Marcantonio, the people's politician, by Salvatore J. LaGumina. *Mid America*, 52: 141-42.

LOVE, JOSEPH L., Associate Professor

Articles

Índice cronológico dos papéis de Antônio Augusto Borges de Medeiros: 1909-1932. In *Revista do Instituto Histórico e Geográfico Brasileiro*, 286, 1:223-76.

Political participation in Brazil, 1881-1969. *Luso-Brazilian Review*, 7, 2:3-24.

MCCOLLEY, ROBERT M., Associate Professor

Reviews

The anti-slavery movement and reconstruction, by Christine Bolt. *Journal of American History*, 57, 1:155-56.

Race relations in Virginia and miscegenation in the South, 1776-1860, by James Hugo Johnston. *Journal of Southern History*, 36, 4:593-94.

McKAY, JOHN P., Associate Professor

Books

Pioneers for profit: foreign entrepreneurship and Russian industrialization, 1885-1913. University of Chicago Press, Chicago, 442 pp.

Reviews

Soviet transport experience: its experience for other countries, by Holland Hunter. *Slavic Review*, 29, 3:546-47.

An economic history of the USSR, by Alec Nove. *Ibid.*, 4:713-14.

QUELLER, DONALD E., Professor

Reviews

Die erobring von Konstantinopel als politische forderung des westens in hochmittelalter, by Sibyll Kindlimann. *Speculum*, 45:304-5.

The field of cloth of gold: men and manners in 1520, by Joycelyne G. Russell. *The Historian*, 32:280.

RANSEL, DAVID L., Assistant Professor

Articles

Nikita Panin's imperial council project and

the struggle of hierarchy groups at the court of Catherine II. *Canadian Slavic Studies*, 4, 3:35-55.

SOLBERG, WINTON U., Professor and Chairman of Department

Articles

On institutional neutrality. *AAUP Bulletin*, 56, 1:123-24.

Reviews

Puritanism and the wilderness: the intellectual significance of the New England frontier, 1629-1700, by Peter N. Carroll. *Journal of American History*, 57, 1:123-24.

Southern California and its university: a history of USC 1880-1964, by Manuel P. Servin, Iris Higbie Wilson. *Journal of American History*, 57, 2:453-54.

SPENCE, CLARK C., Professor

Books

Mining engineers & the American West: the lace-boot brigade, 1849-1933. Yale University Press, New Haven, Connecticut, 407 pp.

Reviews

The lion of the Lord: a biography of Brigham Young, by Stanley P. Hirschson. *The Journal of American History*, 57, 2:437-38.

A global corporation: a history of the international development of Massey-Ferguson Limited, by E. P. Neufeld. *Business History Review*, 44, 3:410-11.

Essays on the American West, by Sandra Myres and others. *Southwestern Historical Quarterly*, 74, 2:275-76.

The first and second United States empires: governors and territorial government, 1784-1912, by Jack E. Eblen. *Arizona and the West*, 12, 1:103-4.

1897 Sears Roebuck catalogue, ed. by Fred L. Israel. *Pacific Northwest Quarterly*, 61, 1:52-53.

STEWART, CHARLES C., Visiting Assistant Professor

Books Edited

History of North Africa: from the Arab conquest to 1830, by Ch.-André Julien. Routledge & Kegan Paul, London, 446 pp.

Articles

A new document concerning the origins of the Awlad Ibiri and the N'tishait. *Bulletin de l'Institut Fondamental d'Afrique Noire*, 31B, 1:309-19.

Reviews

Shinqiti folk literature and song, by H. T. Norris. *African Affairs*, 69, 276:309-10.

Rebirth of a nation; the origins and rise of Moroccan nationalism, 1912-1944, by J. P. Halstead. *Ibid.*, 277:403.

Morocco's Saharan frontiers, by F. E. Trout. *Ibid.*, p. 403.

SUTTON, ROBERT M., Professor

Articles

New introduction letters from Illinois, by Morris Birkbeck. Da Capo Press, New York, pp. 5-17.

The Illinois historical survey: a half-century of selective acquisitions. *Illinois Libraries*, 52, 2:205-10.

UROFF, BENJAMIN, Assistant Professor

Reviews

Status modernus magnae Russiae seu Moscoviae, by Georgius David, ed. by A. V. Florovskij. *Slavic and East European Journal*, 14, 3:400-401.

WALLER, ROBERT A., Associate Professor

Articles

Promising practices in teaching about ethnic groups. In *Social studies education for young Americans*, ed. by Ralph H. Jones. Kendall-Hunt Publishing Co., Dubuque, Iowa, pp. 341-45.

Survey vs. seminar in history. *Junior College Journal*, 40, 5:30-32.

Reviews

Education in the wilderness, by Floyd R. Dain; The Michigan search for educational standards, by Charles R. Starring and James O. Knauss; Schools for an urban society, by Donald W. Disbrow. *Journal of Illinois State Historical Society*, 63, 4:462-63.

Hornet of Illinois, by Thomas B. Littlewood. *Ibid.*, 2:196-97.

DOCTORAL DISSERTATIONS

Bates, George E., Jr. (R. P. Stearns, Adviser), The emergence of a modern mind in Colonial America, 1700-1760.

Bogue, James F. (C. Y. Star, Adviser), Tiberius in the reign of Augustus.

Bridges, Roger D. (H. M. Hyman, Adviser), The constitutional world of Senator John Sherman, 1861-1869.

Candeloro, Dominic L. (J. L. Bates, Adviser), Louis Freeland Post: carpetbagger, single-taxer, progressive.

Dukes, Jack R. (J. Alden Nichols, Adviser), Helgoland, Zanzibar, East Africa: colonialism in German politics, 1884-1890.

Eaton, Henry L. (R. T. Fisher, Jr., Adviser), Early Russian censuses and the population of Muscovy, 1550-1650.

Glidden, William B. (J. L. Bates, Adviser), Casualties of caution: alien enemies in America, 1917-1919.

Graebner, William S. (C. C. Spence, Adviser), Coal mining safety: national solutions in the progressive period.

Johnson, Ronald M. (W. U. Solberg, Adviser), Captain of education: an intellectual biography of Andrew S. Draper, 1848-1913.

Mast, Herman W., III (L. E. Eastman, Adviser), An intellectual biography of Tai Chi-T'ao from 1891 to 1928.

Schlesinger, Roger (C. E. Nowell, Adviser), The influence of Italian Renaissance civilization in fifteenth century Spain: a study in cultural transmission.

Schob, David E. (C. C. Spence, Adviser), Agricultural labor in the Midwest 1815-1860.

Shepardson, Donald E. (J. A. Nichols, Adviser), *The Daily Telegraph Affair*: a case study in the politics of the second German empire.

Utley, Jonathan G. (W. A. Heinrichs, Jr., Adviser), The Department of State and the Far East, 1937-1941; a study of the ideas behind its diplomacy.

Wegs, James R. (P. W. Schroeder, Adviser), Austrian economic mobilization during World War I; with particular emphasis on heavy industry.

HOME ECONOMICS

ALEXANDER, HAROLD H., Associate Professor

Articles

A low-cost housing project. *Journal of Home Economics*, 62, 6:393-95.

With E. L. Brown, W. R. Nelson, Jr., M. R. Goodyear, M. J. Sporakowski
Effects of a rapidly changing environment on human happiness and welfare. *Illinois Research*, 12, 4:18-19.

BROWN, ESTHER L., Associate Professor

Articles

Nutrition content—the basic conceptual framework. *Illinois Teacher for Contemporary Roles*, 14, 1:3-5.

With W. R. Nelson, Jr., H. Alexander, M. R. Goodyear, M. J. Sporakowski
Effects of a rapidly changing environment on human happiness and welfare. *Illinois Research*, 12, 4:18-19.

DUNSING, MARILYN M., Professor

Articles

With J. L. Hafstrom
Family account project is ended. *Illinois Research*, 12, 3:10-11.

Bulletins and Technical Reports

What you need to know about consumer credit. University of Illinois College of Agriculture Cooperative Extension Service, Urbana, 20 pp.

Reviews

New homes and poor people: a study of chains of moves, by John B. Lansing, Charles Wade Clifton, and James N. Morgan. *The Journal of Consumer Affairs*, 4, 2:143-46.

GOODYEAR, MARGARET R., Associate Professor

Articles

With E. L. Brown, W. R. Nelson, Jr., H. H. Alexander, M. J. Sporakowski
Effects of a rapidly changing environment on human happiness and welfare. *Illinois Research*, 12, 4:18-19.

HAFSTROM, JEANNE L., Instructor

Articles

With M. M. Dunsing
Family account project is ended. *Illinois Research*, 12, 3:10-11.

Bulletins and Technical Reports

What you need to know about consumer credit. University of Illinois College of Agriculture Cooperative Extension Service, Urbana, 20 pp.

HASKELL, BETTY E., Associate Professor
See Food Science.

LAMKIN, GLENNA H., Associate Professor

Articles

With H. A. Fox, B. A. Fryer, V. M. Vivian, E. S. Eppright
The north central regional study of diets of preschool children—1. Family environment. *Journal of Home Economics*, 62, 4: 241-45.

The north central regional study of diets of preschool children—2. Nutrition knowledge and attitude of mothers. *Ibid.*, 5:327-32.

The north central regional study of diets of preschool children—3. Frequency of eating. *Ibid.*, 6:407-10.

With M. L. Hielscher, H. B. Janes

Food purchasing practices of young families. *Ibid.*, 8:598-604.

REBER, ROBERT J., Assistant Professor

Articles

With H. H. Draper
Absorption and metabolism of 1-¹⁴C-hydroxy octadecadienoate in the rat. *Lipids*, 5, 12: 983-87.

SMITH, ROBERT B., Professor

Books

Music in the child's education. Ronald Press, New York, 358 pp.

VAN DEN DAELE, LELAND D., Associate Professor

Articles

Continuity in the development of preconceptual behavior in children. *Developmental Psychology*, 2, 3:303-5.

Preschool intervention through social learning for disadvantaged children. *Journal of Negro Education*, 39, 4:296-304.

Modification of infant state by treatment in a rockerbox. *Journal of Psychology*, 74, 2:161-65.

Bulletins and Technical Reports

Infant reactivity to redundant proprioceptive and auditory stimulation. Educational Testing Service Research Bulletin, Princeton, New Jersey, 15 pp.

HORTICULTURE

BUTLER, JACKIE D., Associate Professor

Articles

Care in starting a lawn pays big dividends. *Illinois Turfgrass Conference Proceedings*, 10:19-22.

With E. O. Burt

Turf weed control guide. *Grounds Maintenance*, 5, 5:29-34.

With M. C. Shurtleff

Disease control—yes or no. *Illinois Turfgrass Conference Proceedings*, 10:11-13.

Current fungicide recommendations. *Ibid.*, pp. 68-71.

CHU, MEL CHIH-YU, Assistant Horticulturist

Articles

With R. K. Simons, F. N. Hewetson
Fruit tissue injury by frost to "York Imperial" apples. *Journal of the American Society for Horticultural Science*, 95:821-27.

COURTER, JOHN W., Associate Professor

Articles

Plastic greenhouse coverings. *Southern Florist and Nurseryman*, 84, 5:20-22.

With C. C. Zych, H. A. Cate

Pick-your-own—a successful method of marketing strawberries. *Illinois Research*, 12, 2:19.

With H. J. Hopen, J. S. Vandemark

Mulching vegetables. *World Farming*, 12, 10: 30-34.

With C. C. Doll, H. A. Cate

"Pick-your-own" strawberries. *Proceedings of the Illinois State Horticultural Society*, 103:139-47.

With C. C. Zych

1970 survey of "pick-your-own" strawberry customers, 1969. *Ibid.*, pp. 148-51.

With A. M. Rhodes, C. C. Doll

Illinois leads the nation in horseradish. *The Living Museum*, 32, 7:244-45.

With H. A. Cate

"Pick-your-own" catches on. *Extension Service Review*, 41, 6:3.

With J. S. Vandemark

1970 vegetable varieties for commercial plant growers. *Illinois State Florists' Association Bulletin*, 311:4.

With C. C. Zych, A. Otterbacher

"Thornfree" blackberry in Illinois. *Fruit Varieties and Horticultural Digest*, 24, 3: 51-52.

Bulletins and Technical Reports

Home greenhouses. University of Illinois College of Agriculture Cooperative Extension Service Circular 879, 32 pp.

With C. C. Doll, J. A. Tweedy

Results of strawberry weed control studies, 1968 to 1969. University of Illinois Department of Horticulture H-666.

With J. S. Vandemark, H. J. Hopen, C. C. Zych, C. C. Doll

1970 vegetable variety recommendations and report of 1969 vegetable and small fruit variety trials. University of Illinois Department of Horticulture H-661, 24 pp.

With D. B. Meador, C. C. Doll, J. A. Tweedy

1970 herbicides for commercial fruit crops. University of Illinois Department of Horticulture H-659, 4 pp.

With J. S. Vandemark

Growing tomatoes at home. University of Illinois College of Agriculture Cooperative Extension Service Circular 981, 16 pp.

With C. C. Zych, M. C. Shurtleff

Growing small fruits in the home garden. University of Illinois College of Agriculture Cooperative Extension Service Circular 935, 56 pp.

CULBERT, JOHN R., Professor

Articles

With W. H. Carter

Attitudes of Illinois retail florists on the bunching and grading of roses. *Illinois State Florists' Association Bulletin*, 310:10-12, 18-19.

Attitudes of Illinois retail florists on the bunching and grading of spray (pompon) chrysanthemums. *Ibid.*, 317:5-8, 10-11.

Bulletins and Technical Reports

Flower arranging. University of Illinois College of Agriculture Cooperative Extension Service Circular 1020, 16 pp.

DAYTON, DANIEL F., Professor

Articles

New apple strains developed by forcing shoots on disbudded trees. *Illinois Research*, 12, 2:10.

With E. B. Williams

Additional allelic genes in *Malus* for scab resistance of two reaction types. *Journal of the American Society for Horticultural Science*, 95, 6:735-36.

With J. B. Mowry, L. F. Hough, and others

Prima — an early ripening red apple with resistance to scab. *Fruit Varieties and Horticultural Digest*, 24, 1:20-22.

With J. B. Mowry

Prima, the first commercial scab-resistant apple variety. *Illinois Research*, 12, 1:7.

DICKINSON, DAVID B., Associate Professor

Articles

With M. J. Misch, R. E. Drury

Freezing damage to isolated tomato fruit

mitochondria as modified by cryoprotective agents and storage temperature. *Plant Physiology*, 46:200-203.

With E. L. Cox

Chlorophyll-deficient mutants have differential capacities to accumulate assimilation starch. *Maize Genetics Cooperative Newsletter*, 44: 51-54.

FOSLER, GAIL M., Assistant Professor

Articles

With D. C. Saupe

Suggested bedding plant varieties for commercial growing and landscaping in 1970. *1970 Recommendations for Ornamental Horticulture*, University of Illinois Department of Horticulture H-665, pp. 1-28.

Suggested bedding plant varieties for commercial growing and landscaping in 1971. *Illinois State Florists' Association Bulletin*, 310, 1:4-9, 13-16.

Bulletins and Technical Reports

Flowering gift plants — their care and how to rebloom them. University of Illinois College of Agriculture Cooperative Extension Service Circular 801, 56 pp.

Selecting top flower varieties — the All-America Selections. University of Illinois Department of Horticulture H-667, 4 pp.

GARTNER, JOHN B., Professor

Articles

With J. D. Murphy, M. M. Meyer, Jr.

The use of phenol-formaldehyde-foam as a propagation medium for cuttings. *Illinois State Florists' Association Bulletin*, 316:2, 6-8.

Comparisons of various individual media for direct rooting of cuttings. *International Plant Propagators' Society Proceedings*, 19: 279-383.

With D. C. Saupe, T. R. Yocom

Hardwood bark as a medium for container grown ornamentals. *American Nurseryman*, 131, 8:11, 40-43.

With D. C. Saupe, T. R. Yocom, R. A. Kundrot

Hardwood bark fiber is used for growing, mulching and packaging of ornamental plants. *Illinois Research*, 12, 1:6-7.

With J. Q. Aylsworth, J. T. Scott, Jr.

The cost of credit. *Home and Garden Supply Merchandiser*, 3, 12:20-22.

An analysis of two real estate investment opportunities for ornamental plant nursery operators. *1971 Recommendations for Ornamental Horticulture*, University of Illinois Department of Horticulture H-665, pp. 54-60.

With J. E. Klett, D. C. Saupe

Hardwood bark as a media for container grown ornamentals. *Ibid.*, pp. 61-70.

Artificial media for preparing a ball for bare root nursery stock. *Ibid.*, pp. 44-54.

With J. Kirkpatrick, D. C. Saupe

Growth of various herbaceous plants in media amended with hardwood bark. *Ibid.*, pp. 24-35.

With M. M. Meyer, Jr., S. W. Binnie

Storage temperature and quality of deciduous woody ornamentals. *Illinois State Nurserymen's Association Newsletter*, 118:3-4.

HODGES, THOMAS K., Associate Professor

Articles

With J. D. Fisher, D. Hansen

Correlation between ion fluxes and ion-stimu-

lated and enosine triphosphatase activity of plant roots. *Plant Physiology*, 46, 6:812-14.

HOPEN, HERBERT J., Associate Professor

Articles

Check out herbicide combinations. *American Vegetable Grower*, 18, 5:13, 56.

With W. F. Whiteside, R. R. Dedolph, W. Chorney

High post-harvest temperatures retard sprouting of fall planted onion sets. *Illinois Research*, 12, 3:13.

With J. F. Pereira, W. E. Splittstoesser

The effect of nitrofen upon selected cabbage cultivars. *Plant Physiology*, 46 (supplement):33.

Penetration of nitrofen and its effect upon cell permeability. *HortScience*, 5:319.

With J. W. Courter, J. S. Vandemark

Mulching vegetables. *World Farming*, 12, 10:30-34.

With W. E. Splittstoesser

Root growth inhibition by siduron and its relief by kinetin. *Physiologia Plantarum*, 23:964-70.

Bulletins and Technical Reports

With J. W. Courter, J. S. Vandemark, C. C. Zych, C. C. Doll

1970 vegetable variety recommendations and report of 1969 vegetable and small fruit variety trials. University of Illinois Department of Horticulture H-661, 24 pp.

HUGHES, TOM D., Assistant Professor

Articles

Soil testing and fertilizing large areas. *Illinois Turfgrass Conference Proceedings*, 10:54-57.

With L. F. Welch

Potassium azide as a nitrification inhibitor. *Agronomy Journal*, 62, 5:595-99.

2-chloro-6-(trichloromethyl) pyridine as a nitrification inhibitor for anhydrous ammonia applied in different seasons. *Ibid.*, 6:821-24.

JAYCOX, ELBERT R., Professor

Articles

Honey bee queen pheromones and worker foraging behavior. *Annals of the Entomological Society of America*, 63, 1:222-28.

Honey bee foraging behavior; responses to queens, larvae and extracts of larvae. *Ibid.*, 6:1689-94.

Collecting and counting honey bees with a vacuum cleaner. *Journal of Economic Entomology*, 63, 1:327-28.

Bulletins and Technical Reports

Destroying bees and wasps. University of Illinois College of Agriculture Cooperative Extension Service Circular 1011, 6 pp.

LIGNOWSKI, EDWARD M., Assistant Horticulturist

Articles

With W. E. Splittstoesser

Enzymes involved in arginine metabolism in pumpkin cotyledons. *Plant Physiology*, 46 (supplement):35.

MCCOLLUM, JOHN P., Professor

Articles

With D. M. Pharr, A. A. Kattan

What controls ripening of tomato fruits? *Illinois Research*, 12, 1:10-11.

With Y. H. Foda

Viscosity as affected by various constituents

of tomato juice. *Journal of Food Science*, 35:333-38.

McDANIEL, JOSEPH C., Assistant Professor

Articles

The fertile Foster hybrids. *Holly Letter*, 36:2-4.

Did Magnolia grandiflora borrow some genes? A detective story. *American Magnolia Society Newsletter*, 7, 2:4-7.

'Spring Snow' and 'Ballerina,' two Loebner magnolias from Illinois. *Ibid.*, 1:1-4.

Osage orange. *American Nurseryman*, 132, 5:36, 38.

New ornamental tree cultivars offered from Illinois propagators. *International Plant Propagators' Society Proceedings*, 19:377-78.

Persimmons in Illinois. *North American Pomona*, 3, 4:137-38, 140.

An interesting backcross hybrid walnut. *Northern Nut Growers Association Annual Report*, 60:78-80.

Selling and hybridizing persimmons. *Ibid.*, pp. 102-4.

With S. D. Groves

"Griffin" evergreen magnolia. *International Plant Propagators' Society Proceedings*, 19:367-77.

Reviews

Ornamental shrubs for Canada, by Lawrence C. Sherk, Arthur R. Buckley. *Illinois State Nurserymen's Association Newsletter*, 120:5.

Human poisoning from native and cultivated plants, by James W. Hardin, Jay M. Arena. *American Nurseryman*, 132, 9:84-86.

MEADOR, DANIEL B., Assistant Professor

Articles

Weather and crop summary. *Transactions of the Illinois State Horticultural Society*, 103:130-31.

Russeting of Golden Delicious. *Ibid.*, pp. 131-35.

With R. H. Meyer, M. C. Shurtleff

An analysis of the Illinois 95% Clean Apple Club, 1969. *Ibid.*, pp. 112-20.

Bulletins and Technical Reports

With C. C. Doll, J. B. Mowry

Suggested peach varieties for Illinois commercial orchards. University of Illinois Department of Horticulture H-668, 7 pp.

With C. C. Doll, J. W. Courter, J. W. Tweedy

1970 herbicides for commercial fruit crops. *Ibid.*, H-659, 4 pp.

With C. C. Zych, C. C. Doll, M. C. Shurtleff, R. Randell

Growing tree fruits in the home orchard. University of Illinois College of Agriculture Cooperative Extension Service Circular 1013, 68 pp.

With D. Powell, R. H. Meyer, M. C. Shurtleff, R. Randell

Illinois fruit calendar for growers of apples and peaches. University of Illinois College of Agriculture Cooperative Extension Service Circular 1014, 12 pp.

MEYER, MARTIN M., JR., Assistant Professor

Articles

External and internal nutrition and spring growth of woody ornamental plants. *Proceedings of the International Plant Propagators' Society*, 19:300-305.

With S. W. Binnie, J. B. Gartner

Storage temperature and quality of deciduous

woody ornamentals. *Illinois State Nurserymen's Association Newsletter*, 118:3-4.

With J. D. Murphy, Jr., J. B. Gartner

Comparisons of various individual direct rooting media. *Proceedings of the International Plant Propagators' Society*, 19:279-83.

The use of phenol-formaldehyde foam as a propagation medium for cuttings. *Illinois State Florists' Association Bulletin*, 316: 2, 6-8.

MOWRY, JAMES B., Professor

Articles

Rome. In *North American apples: varieties, rootstocks, outlook*, ed. by W. H. Upshall, Michigan State University Press, East Lansing, p. 12.

With D. F. Dayton, L. F. Hough, and others

Prima — an early ripening red apple with resistance to apple scab. *Fruit Varieties and Horticultural Digest*, 24, 1:20-22.

With D. F. Dayton

Prima, the first commercial scab-resistant apple variety. *Illinois Research*, 12, 1:7.

Bulletins and Technical Reports

Suggested peach varieties for Illinois commercial orchards. University of Illinois Department of Horticulture H-668, 7 pp.

NELSON, WILLIAM R., JR., Associate Professor

Articles

Community involvement for community action. In *Proceedings of conference on community planning*, Louisiana State University, School of Environmental Design, 14 pp.

Community improvement accomplishments of United States Landscape Extension Program. In *Proceedings of community landscape improvement seminar*, University of Guelph, Ontario, Canada, 13 pp.

Landscaping — stereotyped or quality. 25th annual short course in residential construction. *University of Illinois Bulletin*, 67, 112:72-76.

Grass in the landscape. *Illinois Turfgrass Conference Proceedings*, 9:80-82.

The impact on natural resources when the use of the land changes. *Arborist's News, International Shade Tree Conference, Inc.*, 35, 1:1-5.

With E. L. Brown, H. H. Alexander, M. R. Goodyear, M. J. Sporkowski

Effects of a rapidly changing environment on human happiness and welfare. *Illinois Research*, 12, 4:18-19.

RHODES, ASHBY M., Associate Professor

Articles

With W. P. Bemis, T. W. Whitaker, S. G. Carmer

Numerical taxonomy applied to *Cucurbita* relationships. *American Journal of Botany*, 57:404-12.

With C. W. Campbell, S. E. Malo, S. G. Carmer

A numerical taxonomic study of the mango (*Mangifera indica* L.). *Journal of the American Society for Horticultural Science*, 95:252-56.

With G. F. Wilson

Similarity of five sources of chlorotic-lesion resistance to *Helminthosporium turcicum* in a sweet corn background. *Plant Disease Reporter*, 54:896-97.

With J. W. Courter, C. C. Doll

Illinois leads the nation in horseradish. *The Living Museum*, 32, 7:244-45.

SAUPE, DONALD C., Instructor

Articles

With J. Kirkpatrick, J. B. Gartner

Growth of various herbaceous plants in media amended with hardwood bark. In *1971 recommendations for ornamental horticulture*, University of Illinois Department of Horticulture H-665, pp. 24-35.

With J. E. Klett, J. B. Gartner

Artificial media for preparing a ball for bare root nursery stock. *Ibid.*, pp. 44-53.

Hardwood bark as a media for container grown ornamentals. *Ibid.*, pp. 61-70.

With G. M. Fosler

Suggested bedding plant varieties for commercial growing and landscaping in 1971. *Illinois State Florists' Association Bulletin*, 310, 1:4-9, 13-16.

Suggested bedding plant varieties for commercial growing and landscaping in 1970. *1970 recommendations for ornamental horticulture*, University of Illinois Department of Horticulture H-665, pp. 1-28.

With J. B. Gartner, T. R. Yocom

Hardwood bark as a medium for container grown ornamentals. *American Nurseryman*, 131, 8:11, 40-43.

With J. B. Gartner, T. R. Yocom, R. A. Kundrot

Hardwood bark fiber is used for growing, mulching and packaging of ornamental plants. *Illinois Research*, 12, 1:6-7.

SIMONS, ROY K., Professor

Articles

Performance of apple dwarfing rootstocks in Illinois. *Transactions of the Illinois State Horticultural Society*, 103: 106-11.

Phloem tissue development in response to freeze injury to trunks of apple trees. *Journal of the American Society for Horticultural Science*, 95:182-90.

Some observations of the Northwest fruit industry. *Compact Fruit Tree*, 3:97-99.

With F. N. Hewetson, M. C. Chu

Fruit tissue injury by frost to 'York Imperial' apples. *Journal of the American Society for Horticultural Science*, 95:821-27.

SPENCER, PATRICIA W., Assistant Horticulturist

Articles

With J. S. Titus

Uptake and translocation of amino acids in apple trees. *HortScience*, 5, 4:73.

SPLITTSTOESSER, WALTER E., Associate Professor

Articles

Effects of 2-chloroethylphosphonic acid and gibberellic acid on sex expression and growth of pumpkins. *Physiologia Plantarum*, 23:762-68.

Characterization of aspartate aminotransferase in germinating pumpkin cotyledons. *Plant and Cell Physiology*, 11:579-88.

With J. F. Pereira, H. J. Hopon

The effect of nitrogen upon selected cabbage cultivars. *Plant Physiology*, 46 (supplement):33.

Penetration of nitrofen and its effect upon cell permeability. *HortScience*, 5:319.

With E. M. Lignowski

Enzymes involved in arginine metabolism in pumpkin cotyledons. *Plant Physiology*, 46 (supplement):35.

With K. H. Chow

Changes in nitrogenous components of pumpkin cotyledons during germination. *Plant Physiology*, 46 (supplement):35.

With S. A. Stewart

Distribution and isoenzymes of aspartate aminotransferase in cotyledons of germinating pumpkins. *Physiologia Plantarum*, 23:1119-26.

With H. J. Hopen

Root growth inhibition by siduron and its relief by kinetin. *Physiologia Plantarum*, 23:964-70.

STEWART, SHERYL A., Assistant Horticulturist

Articles

With W. E. Splittstoesser

Distribution and isoenzymes of aspartate aminotransferase in cotyledons of germinating pumpkins. *Physiologia Plantarum*, 23:1119-26.

THOMPSON, ANSON E., Professor

Articles

Uttar Pradesh Agricultural University, sister institution of the University of Illinois in India. *Illinois Research*, 12, 3:14-15.

New easy-peeling tomato promises to be a boon for housewives and processors. *Illinois Research*, 12, 3:19.

TITUS, JOHN S., Professor

Articles

With P. Spencer

Uptake and translocation of amino acids in apple trees. *HortScience*, 5, 4:73.

VANDEMARK, JOSEPH S., Professor

Articles

With J. W. Courter, H. J. Hopen

Mulching vegetables. *World Farming*, 12, 10: 30-34.

With J. W. Courter

1970 vegetable varieties for commercial plant growers. *Illinois State Florists' Association Bulletin*, 311:4.

Bulletins and Technical Reports

With J. W. Courter, H. J. Hopen, C. C. Zych, C. C. Doll

1970 vegetable variety recommendation and report of 1969 vegetable and small fruit variety trials. University of Illinois Department of Horticulture H-661, 24 pp.

With J. W. Courter

Growing tomatoes at home. University of Illinois College of Agriculture Cooperative Extension Service Circular 981, 16 pp.

ZYCH, CHESTER C., Associate Professor

Articles

With J. W. Courter, A. G. Otterbacher

"Thornfree" blackberry in Illinois. *Fruit Varieties and Horticultural Digest*, 24, 3: 51-52.

With J. W. Courter, H. A. Cate

Pick-your-own — a successful method of marketing strawberries. *Illinois Research*, 12, 2:19.

With J. W. Courter

1970 survey of "pick-your-own" strawberry customers, 1969. *Proceedings of the Illinois State Horticultural Society*, 103:148-51.

Bulletins and Technical Reports

With J. W. Courter, J. S. Vandemark, H. J. Hopen, C. C. Doll

1970 vegetable variety recommendations and report of 1969 vegetable and small fruit variety trials. University of Illinois Department of Horticulture H-661, 24 pp.

With J. W. Courter, M. C. Shurtleff

Growing small fruits in the home garden. University of Illinois College of Agriculture Cooperative Extension Service Circular 935, 56 pp.

With D. B. Meador, C. C. Doll, M. C. Shurtleff, R. Randell

Growing tree fruits in the home orchard. University of Illinois College of Agriculture Cooperative Extension Service Circular 1013, 68 pp.

INSTITUTIONAL RESEARCH, UNIVERSITY BUREAU OF

DUFF, FRANKLIN L., Associate Director and Associate Professor

Bulletins and Technical Reports

With S. J. Bahlke-Thomas, J. W. Loeb

Efficiency in graduate degree productivity: I. University Bureau of Institutional Research, University of Illinois, Urbana, 59 pp.

Graduate degree productivity: University of Illinois at Urbana-Champaign. *Ibid.*, 46 pp.

FROEHLICH, GUSTAV J., Director and Professor

Bulletins and Technical Reports

With R. C. Carey

Migration of college students: midwest region fall 1968. University Bureau of Institutional Research, University of Illinois, Urbana, 191 pp.

With A. R. Lewandowski

Enrollment in institutions of higher learning in Illinois: 1970. *Ibid.*, 135 pp.

INSTRUCTIONAL RESOURCES, OFFICE OF

ALEAMONI, LAWRENCE M., Head, Measurement and Research Division

Articles

With R. E. Spencer

An extended approach to analyze questionnaire and inventory data. *Behavioral Science*, 15, 3:292-93.

With D. K. Heil, R. E. Spencer, R. Lehn

A student course evaluation questionnaire. *Journal of Educational Measurement*, 7, 3: 209-10.

BOWERS, JOHN E., Research Assistant Professor

Articles

The comparison of GPA regression equation for regularly admitted and disadvantaged freshmen at the University of Illinois. *Journal of Educational Measurement*, 7, 4:219-25.

EVERLY, JACK C., Associate Professor

Articles

The univex net as an instructional system for extramural courses and in-service training in agriculture. *The Journal of the National Association of Colleges and Teachers*, 14, 2:20-22.

Photography. In *Communications Handbook* (second ed.), Interstate Printers and Publishers, Danville, Illinois, pp. 105-39.

With A. W. Burger, J. C. Steele

The effect of mediated English counseling via auto-tutorial methods on writing of research reports in a basic field crops instructional system. *The Journal of the National Association of Colleges and Teachers*, 14, 2: 36.

Instructional systems for extramural courses. *Proceedings of the Adult Education Research Conference*, by ERIC Clearinghouse on Adult Education, Syracuse, New York, 22 pp.

STALLINGS, WILLIAM M., Associate Professor

Articles

With C. K. West, E. K. Leslie, D. A. Bosshart
Comparative course attitudes of student teacher and nonstudent teacher groups. *Illinois School Research*, 7, 1:25-29.

With S. Singhal

Probability concepts in educational and psychological research. *The Manitoba Journal of Education*, 5, 1:55-64.

With R. E. Spencer

The lockstep syndrome: a note on the relationship between close order drill and social solidarity in preschool children. *Educational Researcher*, 21, 11:9-10.

With E. K. Leslie

Student attitudes toward grades and grading practices. *Improving College and University Teaching*, 18, 1:66-68.

Some observations on testing practices in undergraduate courses at a large state-supported university. *Ibid.*, 2:142-43.

With J. J. Monk

Effects of item order on test scores. *Journal of Educational Research*, 63, 10, 463-65.

With S. Singhal

Some observations on the relationships between research productivity and student evaluations of courses and teaching. *American Sociologist*, 5, 2:141-43.

The effects of teaching descriptive geometry on spatial relations test scores. *ERM (Educational Research and Methods)*, 2, 4:9, 10, 14.

Bulletins and Technical Reports

With R. E. Spencer

The improvement of college level student achievement through changes in classroom examination procedures. Final Report, US-OE Project No. 6-1174, University of Illinois, Urbana-Champaign, 119 pp. and appendices.

Reviews

Statistics: the essentials for research, Henry E. Klugh. *Educational and Psychological Measurement*, 30, 4:1023-26.

JOURNALISM

BOSTON, RAYMOND J., Assistant Professor

Reviews

The newspapers, by Frank Huggett. *Journalism Quarterly*, 46, 1:168-69.

CAREY, JAMES W., Associate Professor

See Communications Research.

GERSHEN, MARTIN, Instructor

Articles

Why My Lai? *Nana and Newhouse Newspapers*. May-June 1970, November-December 1970.

Exercise reformer. *The Arizona Journalist*, 2, 3:1, 7, 8.
Covering New York's school war. *Quill*, 57, 11:16-19, 38.

GILMORE, GENE S., Assistant Professor

Books

With R. Root

Modern newspaper editing. Glendessary, Berkeley, California, 406 pp.

GUBACK, THOMAS H., Research Associate Professor

See Communications Research.

HANSON, GLENN G., Associate Professor

Articles

The Now Look in the yearbook. *Scholastic Editor Graphics/Communications*, 49, 6:5-8.
Design: first step to quality. *Ibid.*, 7:9-10.
Design is a tool for doing a job. *Ibid.*, 8:29-31.

Integrate yearbook layouts for the Now Look. *Ibid.*, 9:10-13.

Articles

Using typography to achieve the Now Look. *Ibid.*, 50, 1:26-28.

Copyfitting for the Now Look. *Ibid.*, 2:21-22.
Special graphic techniques for the Now Look. *Ibid.*, 3:21-23.

The Now Book and the sense of history. *Ibid.*, 4:22-24.

KNIGHTS, PETER R., Assistant Professor

Articles

With S. A. Thernstrom

Men in motion: some data and speculations about urban population mobility in nineteenth-century America. *Journal of Interdisciplinary History*, 1, 1:7-35.

PETERSON, THEODORE, Dean of College of Communications, Professor of Journalism

Articles

The bright, bleak future of American magazines. In *Serial publications in large libraries*, ed. by Walter Allen, Graduate School of Library Science, University of Illinois, Urbana, pp. 1-10.

The literate nonreader, the library, and the publisher. In *The future of general adult books and reading in America*, ed. by Jenkinson and Sheridan, American Library Association, Chicago, pp. 90-126.

Magazines. *Collier's 1970 Year Book*. Crowell-Collier Educational Corp., New York, pp. 325-26.

Reviews

The Curtis affair, by Martin S. Ackerman. *Journalism Quarterly*, 47:786.

The Curtis-Culligan story, by Matthew J. Culligan. *Ibid.*, pp. 396-97.

Reviews

Decline and fall, by Otto Friedrich. *Journalism Quarterly*, 47:591-92.

New masses: an anthology of the rebel thirties, ed. by Joseph North; *The Saturday Evening Post* anthology, ed. by Roger Butterfield. *Journalism Quarterly*, 47, 185-87.

SCHACHT, JOHN H., Associate Professor

Articles

Der Spiegel still king of European news magazines. *Quill*, 58, 6:27.

LABOR AND INDUSTRIAL RELATIONS

DERBER, MILTON, Professor

Books

The American idea of industrial democracy, 1865-1965. University of Illinois Press, Urbana, 533 pp.

Articles

Collective bargaining in the quasi-public sector: a survey of policies and practices in the United States. *Canadian Review*, 2, 2:97-114.

Crosscurrents in workers participation. *Industrial Relations*, 9, 2:123-36.

Bulletins and Technical Reports

Collective public employee relations in Australia. *Public Employee Relations Library Bulletin*, 27, Public Personnel Association, Chicago, 34 pp.

Reviews

Labor relations and the law: in the United Kingdom and the United States, by Seyfarth, Shaw, Fairweather, and Geraldson. *The Journal of Business*, 43, 1:74-75.

FOLK, HUGH, Professor

Books

The shortage of scientists and engineers. Heath Lexington Books, D. C. Heath and Co., Lexington, Massachusetts, 364 pp.

FRANKE, WALTER H., Professor

Books

With I. Sobel

The shortage of skilled and technical workers. Heath Lexington Books, D. C. Heath and Co., Lexington, Massachusetts, 391 pp.

Articles

The Kerner Commission recommendations revisited: employment. In *The Kerner Report revisited*. Institute of Government and Public Affairs, University of Illinois, Urbana, pp. 13-24.

Employment. In *Collier's 1970 yearbook*, Crowell-Collier Educational Corp., New York, pp. 224-26.

GRAEN, GEORGE B., Assistant Professor

See Psychology.

GREEN, ARCHIE, Associate Professor

Articles

D. K. Wilgus' album notes. *Journal of American Folklore*, 83, 327:110-11.

Reviews

Big Bill Haywood and the radical union movement, by Joseph R. Conlin. *Forest History*, 14, 7:36-37.

HARTMAN, PAUL T., Associate Professor

See Economics.

KARSH, BERNARD, Professor

Articles

The nature and forms of social change. In *Society today*, Communications Research Machines, Inc., Del Mar, California, pp. 447-64.

The sociological study of Japan. *Rice University Studies*, 56, 4:65-76.

STURMTHAL, ADOLF, Professor

Articles

Gray flannel unionist. In *American bureaucracy*, ed. by W. G. Bennis, Aldine Publishing Co., Chicago, pp. 53-63.

The changing role of the International Labor Organization. *Monthly Labor Review*, 93, 5:41-46.

TAIRA, KOJI, Professor

Books

Economic development and the labor market in Japan. Columbia University Press, New York, 282 pp.

Ningensei no keizaigaku (Humane economics), Diamond Publishing Co., Tokyo, 221 pp.

Articles

Factory legislation and management modernization during Japan's industrialization, 1886-1916. *Business History Review*, 44, 1:84-109.

Surplus labor, undernourishment, and labor market rationality in LDC agriculture: the Leibenstein model. *Keizai kenkyū (Economic Review)*, 21, 4:312-22.

Ryukyujin wa uttaeru (Ryukyuan's appeals).

Chūō kōron (Central Review), 11:96-108.

Industrial dualism in Japan. *Economic Development and Cultural Change*, 18, 2:278-84.

TRIANDIS, HARRY C., Professor

See Psychology.

WEIR, STANLEY, Instructor

Articles

USA: the labor revolts. In *American society*, inc., ed. by M. Zeitlin, Markham Publishing Co., Chicago, pp. 464-501.

DOCTORAL DISSERTATIONS

Niland, John R. (H. Folk, Adviser), The brain drain of highly trained engineering manpower from Asia into the United States.

Roderick, Roger D. (H. Folk, Adviser), An organizational analysis of the hiring of engineers.

LANDSCAPE ARCHITECTURE

RILEY, ROBERT B., Professor and Head of Department

Bulletins and Technical Reports

A study of the feasibility of mechanized adobe production. Four Corners Regional Commission, Farmington, New Mexico, 48 pp.

Tajique, Torreon, Manzano, Punta de Agua: a planning framework for revitalization. Center for Environmental Research and Development, University of New Mexico, Albuquerque, 40 pp.

WALKER, DONALD L., JR., Associate Professor

Reviews

New books. *Landscape Architecture*, 60, 2:5, 7, 9, 133.

New books in brief. *Ibid.*, 3:3, 6, 7, 9, 42, 53, 60, 239.

New books in brief. *Ibid.*, 4:31, 35, 37, 328.

LATIN AMERICAN STUDIES, CENTER FOR

SOLAUN, MAURICIO, Assistant Professor

Articles

A Propósito de la Reseña de Leal Buitrago sobre Sociología de los Golpes de Estado Latinoamericanos. *Razón y Fábula*, 18:120-35.

LAW, COLLEGE OF

BAUM, DAVID C., Professor

Books

Report of the committee on local government. Sixth Illinois Constitutional Convention, Illinois, 227 pp. plus appendices.

Bulletins and Technical Reports

Provisions relating to local government in the proposed 1970 constitution and in the 1870 constitution of the state of Illinois. Sixth Illinois Constitutional Convention, Illinois, 14 pp.

BENFIELD, MARION W., JR., Professor

Books

Social justice through law: new approaches in the law of contracts. Foundation Press, Inc., Mineola, New York, 203 pp.

Articles

The effect of credit regulations on real estate transactions. *The Business Lawyer*, 25, 2:501-10.

Interest ceilings and the uniform consumer credit code. *American Bar Association Journal*, 56, October:946-49.

COHN, RUBIN G., Professor

Bulletins and Technical Reports

Committee on judiciary proposal number 1. Sixth Illinois Constitutional Convention, Illinois, 38 pp.

Committee on judiciary proposals numbers 2 and 2a (combined majority and minority reports). *Ibid.*, 42 pp.

Committee on judiciary proposals numbers 3 and 3a (combined majority and minority reports). Sixth Illinois Constitutional Convention, Illinois, 186 pp.

GOLDBERG, STEPHEN B., Professor

Reviews

Labor and the legal process, by Wellington. *Yale Law Journal*, 79, 3:551-69.

HAWKLAND, WILLIAM D., Professor

Articles

Some recent American developments in the protection of know-how. In *Legal thought in the United States of America under contemporary pressures*, ed. by Hazard and Wagner, Etablissements Emile Brulant, Brussels, pp. 389-416.

Prejudgment garnishment of wages after Sniadach. *Commercial Law Journal*, 75, 1:5-7, 10.

Stop payment orders under the uniform commercial code. *Ibid.*, 3:53-60.

Federal restrictions on garnishments of earnings: herein of title III of the consumer credit protection act. *Ibid.*, 7:213-17, 223.

HAY, PETER H., Professor

Articles

Unification of law in the United States: uniform state laws, treaties and judicially declared federal common law. In *Legal thought in the United States of America under contemporary pressures*, ed. by Hazard and Wagner, Etablissements Emile Brulant, Brussels, pp. 261-93.

The building of the European communities and their restrictive practice laws. In vol. 4, *Common Market and American antitrust overlap and conflict*, ed. by J. A. Rahl, McGraw-Hill, New York, pp. 1-49.

KIONKA, EDWARD J., Assistant Professor and Assistant Dean

Books Edited

Illinois civil practice after trial. Illinois Institute for Continuing Legal Education, Springfield, Illinois, 356 pp.

Articles

Internal procedures of the Illinois reviewing courts. In *Illinois civil practice after trial*, Illinois Institute for Continuing Legal Education, Springfield, Illinois, pp. 10-1-10-37.

The future of continuing legal education in Illinois. *Illinois Bar Journal*, 58, 5:372-78.

With J. E. Norton

Tort liability of local governments and their employees in Illinois. *Ibid.*, 8:620-51.

LA FAVE, WAYNE R., Professor

Books

With L. Hall, Y. Kamisar, J. H. Israel

Modern-basic criminal procedure, 1970 fall supplement. West Publishing Company, St. Paul, Minnesota, 270 pp.

Articles

The prosecutor's discretion in the United States. *American Journal of Comparative Law*, 18:532-48.

McCORD, JOHN H., Professor

Articles

Operating problems of professional corporations. In *Professional corporations*, ed. by J. J. Vassen, Illinois Institute on Continuing Legal Education, Springfield, Illinois, pp. 11-1-11-19.

Estate planning for the moderate estate. In *Successful estate planning ideas and methods*, ed. by Prentice-Hall Editorial Board, Prentice-Hall, Inc., Englewood Cliffs, New Jersey, pp. 8051-82.

Estate planning for the junior executive who is moving up and around. *Estate planning for the peripatetic client*, ed. by W. K. Stevens, American Bar Association, Chicago, pp. 1-14.

Problems of share leases—lifetime versus post mortem estate planning. *Illinois Bar Journal*, 58, 6:482-85.

O'CONNELL, JEFFREY, Professor

Articles

Society's response when an institution fails—a case example. In *Health of the Nation/1969*, University Hospital, University of Minnesota, Minneapolis, Minnesota, pp. 25-29.

Jury trials in civil cases? *Illinois Bar Journal*, 58, 10:796-815.

Rx for medical malpractice? *The Insurance Law Journal*, 569:325-33.

With W. Wilson

Public opinion polls on the fault system: State Farm versus other surveys. *Ibid.*, 568:261-75.

PLAGER, SHELDON J., Professor

Books

Social justice through law: new approaches in the law of property. Foundation Press, Inc., Mineola, New York, 174 pp.

Articles

Judicial review—recent decisions in planning law: 1969. *Journal of the American Institute of Planners*, 36, 5:335-44.

SEMMELE, HERBERT, Professor**Books**

Social justice through law: new approaches in the law of civil procedure. Foundation Press, Inc., Mineola, New York, 194 pp.

Articles

Social security benefits for illegitimate children. *Buffalo Law Review*, 19, 2:289-301.

WAGGONER, LAWRENCE W., Associate Professor**Articles**

Future interests legislation: implied conditions of survivorship and substitutionary gifts under the new Illinois "anti-lapse" provision. *University of Illinois Law Forum*, 1969, 4:423-41.

DOCTORAL DISSERTATIONS

Del Carmen, Rolando V. (R. Reisner, Adviser), A comparative study of the admission, exclusion, and deportation of aliens in the United States and the Philippines.

LIBERAL ARTS AND SCIENCES, COLLEGE OF**FRANKENBERG, JULIAN M., Assistant Dean****Articles**

With D. A. Eggert

Petrified *Stigmara* from North America: Part 1. *Stigmara ficoides*, The underground portions of *Lepidodendracae*. *Palaeontographica Abt. B* (Stuttgart), 128, 1-2:1-47. Stuttgart, 1969.

HOOD, W. PETER, Assistant Dean**Articles**

I.U.—mother of college presidents. *Indiana Alumni Magazine*, 33, 9:36-40.

ROSEN, SIDNEY, Professor

See Education.

WALLER, ROBERT A., Associate Dean

and Professor of History

See History.

LIBRARY**ASHMORE, CONSTANCE M., Instructor****Articles**

Holmes at the reference desk. *RQ*, 9:239-40.

BLUM, ELEANOR, Professor**Articles**

Other books and pamphlets on journalistic subjects. *Journalism Quarterly*, 47, 1:192-97; 2:405-11; 3:601-5.

How librarians pick the novels. *Authors Guild Bulletin*, May-June:7-12.

Reviews

Book selection and censorship in the sixties, ed. by Eric Moon. *Journalism Quarterly*, 47, 1:171.

BRICHFORD, MAYNARD J., Professor**Articles**

University of Illinois: Mendel and Zeleny papers. *The Mendel Newsletter*, 3:2. 1969.

Documentary systems to improve communications management: management control of files and documentation flow. *Management Analysis for State Budget Officers*, Council of State Government, Lexington, Kentucky, pp. 38-43. 1969.

Forms management in state government. *Ibid.*, pp. 50-57. 1969.

Scholarly research and archival programs. *Illinois Libraries*, 52, 2:150-53.

The Illiarch. *Ibid.*, pp. 182-204.

Original source materials for the history of librarianship. *Journal of Library History*, 5, 2:177-81.

Business use of business history. *Records Management Quarterly*, 4, 4:14-16, 43.

Scientific and technological manuscripts. *The American Archivist*, 33, 1:144; 2:251-52; 3:366-67.

Reviews

A portrait of Abraham Lincoln in letters by his eldest son, ed. by Paul M. Angle. *Journal of the Illinois State Historical Society*, 62, 2:215-16. 1969.

Research in archives: the use of unpublished primary sources, by Philip C. Brooks. *Ibid.*, p. 444. 1969.

Augustana—a profession of faith: a history of Augustana college, 1860-1935, by Conrad Bergendoff. *Ibid.*, 63, 3:320-21.

Bulletins and Technical Reports

Scientific and technological documentation: archival evaluation and processing of university records relating to science and technology. University of Illinois, Urbana, 35 pp.

BROWN, D. A., Professor**Books**

Bury my heart at Wounded Knee; an Indian history of the American west. Holt, Rinehart and Winston, New York, 487 pp.

Articles

The return of Lewis and Clark. *American History*, 4, 9:4-9, 43-47.

Books from the western frontier. *Ibid.*, pp. 49-50.

Chickasaw bluffs. *Civil War Times*, 9, 4:4-9, 44-48.

Animals and wildlife. *Compton Yearbook*, 1970, pp. 117-20.

Conservation. *Ibid.*, pp. 203-5.

Reviews

The Geronimo campaign, by Odie B. Faulk. *American History*, 4, 10:49.

Oneida community: an autobiography, 1851-1876, by Constance Noyes Robertson. *Ibid.*, 5, 8:50.

Centennial: American life in 1876, by William P. Randel. *Pennsylvania Magazine of History*, 94, 3:416-18.

BROWN, NORMAN B., Associate Professor**Articles**

With W. H. Huff

Price indexes for 1970: serial services. *Library Journal*, 95, 13:2428-29.

DEAL, CARL W., Professor**Reviews**

The Mexican library, by Paul Bixler. *Library Quarterly*, 40, 2:290-91.

DELZELL, ROBERT F., Professor**Articles**

With R. B. Downs

Professional duties in university libraries. In *The case for faculty status for academic librarians*, ed. by Lewis C. Branscomb. American Library Association, Chicago, pp. 9-21.

DOWNNS, ROBERT B., Dean of Library Administration

Books

Books that changed America. Macmillan, New York, 280 pp.

Articles

Future prospects of library acquisitions. *Library Trends*, 18, 3:412-21.

Freedom of speech and press: development of a concept. *Ibid.*, 19, 1:8-18.

Intellectual freedom. *Alberta School Library Review*, 6:9-22.

Interlibrary cooperation. *Encyclopedia Americana*, 17:377-79.

Research needs relating to library school administration. In *A study of the needs for research in library and information science education*, ed. by Harold Borko. U.S. Department of HEW, Office of Education, Bureau of Research, Washington, D.C., pp. 120-36.

Status of academic librarians in retrospect. In *The case for faculty status for academic librarians*, ed. by Lewis C. Branscomb. American Library Association, Chicago, pp. 111-18.

Status of California State College librarians. *Ibid.*, pp. 88-94; also in *American Libraries*, 1:57-59.

With R. F. Delzell

Professional duties in university libraries. *Ibid.*, pp. 9-21.

With J. W. Heussman

Standards for university libraries. *College and Research Libraries*, 31, 1:28-35.

Bulletins and Technical Reports

Virginia's college and university libraries; report of a survey, prelim. ed. State Council of Higher Education for Virginia, Richmond, Virginia, 79 pp.

With J. W. Heussman

University library statistics. American Library Association, Chicago, 129 pp.

HENDERSON, WILLIAM T., Assistant Professor

Articles

Binding — a librarian's view. In *Serial publications in large libraries*, ed. by Walter C. Allen. Graduate School of Library Science, University of Illinois, Urbana, pp. 95-107.

HEUSSMAN, JOHN W., Assistant Professor

Articles

With R. B. Downs

Standards for university libraries. *College and Research Libraries*, 31, 1:28-35.

Bulletins and Technical Reports

With R. B. Downs

University library statistics. American Library Association, Chicago, 129 pp.

HUANG, STEVE, Instructor

Reviews

China and international agreements, a study of compliance, by Luke T. Lee. *Law Library Journal*, 63, 3:385.

HUFF, WILLIAM H., Professor

Articles

The acquisition of serial publications. *Library Trends*, 18, 3:294-317.

With N. B. Brown

Price indexes for 1970: serial services. *Library Journal*, 95, 13:2428-29.

Reviews

Magazines for millions: the story of specialized publications, by James L. C. Ford. *College and Research Libraries*, 31, 4:283-84.

KIM, CHIN, Associate Professor

Articles

The legal status of aliens in Korea. *The Columbia Journal of Transnational Law*, 8, 2:220-45.

La famille dans le code de la République de Corée. *Annuario di Diritto Comparato e di Studi Legislativi*, 43, 2-3:141-47.

Comments on the "COCOM" case. *Journal of World Trade Law*, 4, 4:604-7.

ORAM, ROBERT W., Professor

Articles

With E. G. Holley

University library orientation by television. In *Teaching for better use of libraries*, ed. by Charles L. Trinkner, The Shoe String Press, Hamden, Connecticut, pp. 283-94.

POWER, RUTH T., Professor

Articles

Societies of chemistry. In *Encyclopaedia Britannica*, Encyclopaedia Britannica, Inc., Chicago, vol. 5, pp. 441-42.

PRICE, MARY K., Instructor

Books Edited

With I. I. Kavass

Guide to law reviews and other related periodicals in the University of Alabama School of Law Library. University of Alabama Law Library, University, Alabama, 147 pp.

SHTOHRYN, DMYTRO M., Associate Professor

Articles

Life and work of Stephen Figol. *Progress*, 16, 1-2:11-12.

SMITH, HARRIET W., Assistant Professor

Articles

Guide to geological literature. *Journal of Geological Education*, 18, 1:13-25.

Sources of geological information in Latin America. *Fourteenth Seminar on the Acquisition of Latin American Library Materials. Final Report and Working Papers*, 1:279-302.

TALMADGE, ROBERT L., Professor

Reviews

Centralized book processing: a feasibility study based on Colorado academic libraries, by Lawrence E. Leonard, Joan M. Mater, and Richard M. Dougherty. *Library Resources and Technical Services*, 14, 2: 312-14.

WHITE, LUCIEN W., Professor

Reviews

The economics of book storage in college and university libraries, by Ralph E. Ellsworth. *Journal of Higher Education*, 51, 7:582-83.

WHITE, ROBERT C., Associate Professor

Articles

Map librarianship. *Special Libraries*, 61, 5: 233-35.

National gazetteers of the United States. *Names*, 18, 1:9-19.

The oil-company road map revisited. *Special Libraries Association, Geography and Map Division, Bulletin*, 79:7-9.

LIBRARY SCIENCE

ALLEN, WALTER C., Assistant Professor

Books Edited

Serial publications in large libraries. Allerton Park Institute no. 16, Graduate School of Library Science, University of Illinois, Urbana, 189 pp.

Reviews

H. V. Morton's Britain, ed. by Gilbert Carter. *Library Journal*, 95, 3:496.

Queen Alexandra, by Georgina Battiscombe. *Ibid.*, p. 888.

The South reports the Civil War, by J. Cutler Andrews. *Ibid.*, 13:2465.

What's in a name? by C. Stella Davies and John Levitt. *Ibid.*, 18:3470.

CROWE, LINDA D., Instructor

Reviews

Charles Darwin: pioneer in the theory of evolution, by H. E. L. Mellersh. *Library Journal*, 95, 18:3643.

Smoke jumpers and fire divers; fire fighters of forests and harbors, by Terry Shannon, Charles Payzant. *Library Journal*, 95, 10:1949.

CROWLEY, TERRENCE, Research Assistant Professor

Books

With L. A. Martin, T. Shaughnessy

Library response to urban change. American Library Association, Chicago, 320 pp.

GOLDHOR, HERBERT, Professor and Director of Department

Articles

Democratic administration and morale. In *Personnel utilization in libraries: selected papers*, ed. by Ruth H. Rockwood, School of Library Science, Florida State University, Tallahassee, pp. 6-17.

Reviews

Work simplification in Danish public libraries, by Henning Gimbel. *Library Quarterly*, 40, 1:207-8.

Reader in research methods for librarians, ed. by Mary Lee Bundy, Paul Wasserman. *College and Research Libraries*, 31, 6:419.

HENDERSON, KATHRYN L., Assistant Professor

Articles

Serial cataloging revisited. In *Serial publications in large libraries*, ed. by Walter C. Allen, Graduate School of Library Science, University of Illinois, Urbana, pp. 48-89.

KRONUS, CAROL L., Research Assistant Professor

Articles

Who will vote for library improvements? An analysis of social factors. *Illinois Libraries*, 52, 5:453-61.

KRUMMEL, DONALD W., Associate Professor

Articles

Musical vibrations and as flyspecks: observations of a music bibliographer on the unfamiliar effects and inherent perniciousness of his chosen objects of research. *Trans-*

actions of the Wisconsin Academy of Sciences, Arts, and Letters, 58:15-26.

Berlioz at the V & A. *Musical Times*, 111, 1: 37-38.

Jahrestagung der IVBM in Amsterdam . . . : dating commission. *Fontes Artis Musicae*, 17, 1-2:37-38.

LANCASTER, FREDERICK W., Associate Professor

Articles

Design and evaluation of information systems. In *Annual review of information service and technology*, ed. by C. Cuadra, Encyclopaedia Britannica, Chicago, pp. 33-70.

User education: the next major thrust in information science? *Journal of Education for Librarianship*, 11, 1:55-63.

With G. T. Jenkins

Quality control applied to the operations of a large information system. *Journal of the American Society for Information Science*, 21, 5:370-71.

Bulletins and Technical Reports

The principles of MEDLARS, National Library of Medicine, Bethesda, Maryland, 77 pp.

LEONARD, LAWRENCE E., Research Associate

Books

With R. M. Dougherty

Management and costs of technical processes: a bibliographical review, 1876-1969. Scarecrow Press, Metuchen, New Jersey, 145 pp.

Articles

Translation into Japanese of Colorado academic libraries book processing center: a feasibility study. *College and Research Libraries*, 29, 5:393-99.

Translation into Japanese of Colorado academic libraries book processing: a feasibility study. *NIPDOC SERIES* (Japan Documentation Society), 14:73-81.

LOHRER, M. ALICE, Professor

Books

The identification and role of school libraries that function as instructional materials centers and implications for library education in the United States. U.S. Office of Education, Washington, D.C., 500 pp.

Articles

Visiting committee report: instructional materials services—library and audio-visual. In *North Central Association evaluation—Peoria high school*, ed. by Harold C. Sutter, North Central Association of Colleges and Secondary Schools, Chicago, p. 7.

With J. Watts

Educational media services—library and audio-visual. In *North Central Association visiting committee report—Orion community high school*, ed. by Raymond Miller, North Central Association of Colleges and Secondary Schools, Chicago, pp. 29-34.

A leader or a follower in the media field? The Graduate School of Library Science, University of Illinois. *Illinois Libraries*, 52, 7:702-9.

MACHULA, RUTH S., Instructor

Articles

Educational media for John, Jacques, and Igor. *Educational Screen and A-V Guide*, 49, 4:9.

STENSTROM, RALPH H., Research
Assistant Professor

Books

Cooperation between types of libraries, 1940-1968: an annotated bibliography. American Library Association, Chicago, 159 pp.

WILLARD, D. DEAN, Instructor
Articles

Comments. *Library Resources and Technical Services*, 14, 3:431-33.

DOCTORAL DISSERTATIONS

Anderson, Le Moyne W. (H. Goldhor, Adviser), Delinquent borrowers in an academic library.

Berner, William S. (H. Goldhor, Adviser), The influence of pre-voting activity on the outcome of selected library bond referendums.

Bertram, Sheila J. K. (H. Goldhor, Adviser), The relationship between intra-document citation location and citation level.

Heussman, John W. (R. E. Stevens, Adviser), The literature cited in theological journals and its relation to seminary library circulation.

Sineath, Timothy W. (R. E. Stevens, Adviser), The relationship between size of research library collections and the support of faculty research studies.

Slanker, Barbara O. (G. Garrison, Adviser), Administrative structure of public library systems and its relationship to the level of service offered by member libraries.

Stenstrom, Ralph H. (H. Goldhor, Adviser), Factors associated with membership and non-membership in public library systems in Illinois.

Wert, Lucille M. (H. Goldhor, Adviser), Library education and high school library services.

LINGUISTICS

CHENG, CHIN-CHUAN, Assistant Professor
Articles

Domains of phonological rule application. In *Studies presented to Robert B. Lees by his students*, ed. by J. M. Sadock and A. L. Vanek, Linguistic Research, Inc., Edmonton, Canada, pp. 39-59.

With W. S.-Y. Wang

Implementation of phonological change: the Shuang-feng Chinese case. In *Papers from the sixth regional meeting, Chicago Linguistic Society*, Chicago Linguistic Society, Chicago, pp. 552-59.

Phonological change of middle Chinese initials. *Project on linguistic analysis reports*, 2, 10:cwi-cw69.

DEHGHAN, IRAJ, Visiting Assistant
Professor

Articles

The Persian dialect of Āvarzamān. *Journal of Near Eastern Studies*, 29, 4:259-72.

GREEN, GEORGIA M., Fellow in the Center
for Advanced Study

Articles

How abstract is surface structure? In *Papers from the sixth regional meeting, Chicago Linguistic Society*, Chicago Linguistic Society, Chicago, pp. 270-81.

Reviews

Abstract syntax and Latin complementation,

by Robin T. Lakoff. *Language*, 46, 1:149-67.

KACHRU, BRAJ B., Head of Department,
Professor

Articles

Some style features of South Asian English. In *National identity*, ed. by K. L. Goodwin, Heinemann, London, pp. 122-35.

KACHRU, YAMUNA, Associate Professor

Articles

The syntax of *ko*-sentences in Hindi-Urdu. *Papers in Linguistics*, 2, 2:299-314.

Reviews

Untersuchungen zur syntax des Hindi, by Peter Gaeffke. *Language*, 40, 4:968-75.

Persian influence on Hindi, by Hardev Bahri. *Indian Linguistics*, 31, 3:5-7.

KAHANE, HENRY R., Professor

See Spanish, Italian, and Portuguese.

KENSTOWICZ, MICHAEL J., Instructor

Articles

Lithuanian third person future. In *Studies presented to Robert B. Lees by his students*, ed. by J. M. Sadock and A. L. Vanek, Linguistic Research, Inc., Edmonton, Canada, pp. 95-108.

With C. W. Kisseberth

Rule ordering and the asymmetry hypothesis. In *Papers from the sixth regional meeting, Chicago Linguistic Society*, Chicago Linguistic Society, Chicago, pp. 504-19.

On the notation of vowel length in Lithuanian. *Papers in Linguistics*, 3, 1:73-113.

KISSEBERTH, CHARLES W., Assistant
Professor

Articles

Vowel elision in Tonkawa. In *Studies presented to Robert B. Lees by his students*, ed. by J. M. Sadock and A. L. Vanek, Linguistic Research, Inc., Edmonton, Canada, pp. 109-137.

With M. J. Kenstowicz

Rule ordering and the asymmetry hypothesis. In *Papers from the sixth regional meeting, Chicago Linguistic Society*, Chicago Linguistic Society, Chicago, pp. 504-19.

On the functional unity of phonological rules. *Linguistic Inquiry*, 1, 3:291-306.

The treatment of exceptions. *Papers in Linguistics*, 2, 1:44-58.

Reviews

Yawelmani phonology, by S.-Y. Kuroda. *Linguistic Inquiry*, 1, 3:337-45.

LEES, ROBERT B., Professor

Articles

Problems in the grammatical analysis of English nominal compounds. In *Recent advances in linguistics*, ed. by M. Bierwisch and K. E. Heidolph, Mouton, The Hague.

Reviews

Turkish grammar, by G. L. Lewis. *Foundations of Language*, 6:122-37.

MORGAN, JERRY L., Instructor

Articles

On the criterion of identity for noun-phrase deletion. In *Papers from the sixth regional meeting, Chicago Linguistic Society*, Chicago Linguistic Society, Chicago, pp. 380-89.

DOCTORAL DISSERTATIONS

Geis, Jonnie E. (C. W. Kisseberth, Adviser), Some aspects of verb phrase adverbials in English.

MARKETING

DOCTORAL DISSERTATIONS

Gillespie, Samuel M. (F. M. Jones, Adviser), An analysis of antitrust policy toward franchising.

Hanafy, Abdalla A. K. A. (F. M. Jones, Adviser), Implications of social change and economic development for a consumer market and marketing system: a case study of the United Arab Republic.

McHale, Henry P. (R. Ferber, Adviser), Correlates of brand loyalty in the automobile industry.

Muasher, Rajai S. (F. M. Jones, Adviser), Marketing in a developing economy: a study of the distribution of Jordan's imports and exports.

Sims, John T., Jr. (S. Sudman, Adviser), On measuring the long-run effects of product-line extensions.

MATHEMATICS

AGGARWAL, SATISH K., Assistant Professor

Articles

Inhomogeneous minima of binary quadratic, ternary, cubic and quaternary quartic forms in fields of formal power series. *Proceedings of the National Institute of Sciences of India*, 35A, 5:684-702.

AHLSTWED, RUDOLPH F., Visiting Associate Professor

Articles

A notion of the existence of the weak capacity for channels with arbitrarily varying channel probability functions and its relation to Shannon's zero error capacity. *Annals of Mathematical Statistics*, 41, 3:1027-33.

With J. Wolfowitz

The capacity of a channel with arbitrarily varying channel probability functions and binary output alphabet. *Zeitschrift für Wahrscheinlichkeitstheorie und Verwandte Gebiete*, 15:186-94.

ASH, ROBERT B., Associate Professor

Books

Basic probability theory. John Wiley and Sons, New York, 337 pp.

BABAKHANIAN, ARARAT, Associate Professor

Articles

Cohomological triviality and finite p-nilpotent groups. *Archiv der Mathematik*, 21, 1: 40-42.

BANK, STEVEN B., Associate Professor

Articles

On the growth of certain meromorphic solutions of arbitrary second order algebraic differential equations. *Proceedings of the American Mathematical Society*, 25, 4: 791-97.

On the growth of solutions of algebraic differential equations whose coefficients are arbitrary entire functions. *Nagoya Mathematical Journal*, 39:107-17.

A result concerning meromorphic solutions in the unit disk of algebraic differential equations. *Compositio Mathematica*, 22, 4:367-81.

BARTLE, ROBERT G., Professor

Books

With C. I. Tulcea

Honors calculus. Scott-Foresman and Co., Glenview, Illinois, 889 pp.

Articles

Spectral decomposition of operators in Banach spaces. *Proceedings of the London Mathematical Society*, 20, 3:438-50.

BENZINGER, HAROLD E., JR., Assistant Professor

Articles

Green's function for ordinary differential operators. *Journal of Differential Equations*, 7, 3:478-96.

Equiconvergence for singular differential operators. *Journal of Mathematical Analysis and Applications*, 32, 2:338-51.

BERG, IRA D., Associate Professor

Articles

Extensions of certain maps to automorphisms of m . *Canadian Journal of Mathematics*, 22, 1:308-16.

BERKSON, EARL R., Associate Professor

Articles

Action of W^* -algebras in Banach spaces. *Mathematische Annalen*, 189, 4:261-71.

BERNDT, BRUCE C., Associate Professor

Articles

Identities involving the coefficients of a class of Dirichlet series, III. *Transactions of the American Mathematical Society*, 146, 1: 323-48.

On the zeros of a class of Dirichlet series, I. *Illinois Journal of Mathematics*, 14, 2: 244-58.

Identities involving the coefficients of a class of Dirichlet series, IV. *Transactions of the American Mathematical Society*, 149, 1: 179-85.

On the average order of some arithmetical functions. *Bulletin of the American Mathematical Society*, 76, 4:856-59.

On the zeros of a class of Dirichlet series, II. *Illinois Journal of Mathematics*, 14, 4: 678-91.

The number of zeroes for $\zeta^{(k)}(s)$. *Journal of the London Mathematical Society*, 2, 4: 577-80.

On the average order of ideal functions and other arithmetical functions. *Bulletin of the American Mathematical Society*, 76, 6:1270-74.

BISHOP, RICHARD L., Professor

Reviews

Differentiable manifolds, by S. T. Hu. *Mathematical Reviews*, 39, 5:1156.

BLYTH, COLIN R., Professor

Articles

On the inference and decision models of statistics. *Annals of Mathematical Statistics*, 41, 3:1034-58.

BURKHOLDER, DONALD L., Professor

Articles

With R. F. Gundy

Extrapolation and interpolation of quasi-linear

operators on martingales. *Acta Mathematica*, 124, 2:249-304.

CAIRNS, STEWART S., Professor

Articles

With M. Morse

Singular homology over Z on topological manifolds. *Journal of Differential Geometry*, 3: 257-88.

Elementary quotients of abelian groups, and singular homology on manifolds. *Nagoya Mathematical Journal*, 39:167-98.

CARROLL, ROBERT W., Professor

Articles

Local forms of invariant differential operators. I. *Annali di Matematica*, 86:189-216.

Local forms of invariant differential operators. *Rendiconti Accademia Nazionale Lincei*, 48, 6:566-71.

With J. M. Cooper

Solutions des équations d'évolution abstraites à domaine variable. *Comptes Rendus Académie Sciences, Paris*, 270:319-21.

Remarks on some variable domain problems in abstract evolution equations. *Mathematische Annalen*, 188:143-64.

With E. Y. State

Solutions faibles des équations d'évolution hyperboliques à domaine variable. *Comptes Rendus Académie Sciences, Paris*, 271: 931-33.

Reviews

Linear differential operators with constant coefficients, by V. P. Palamodov. *Zentralblatt für Mathematik*, 191, 2:434-37.

CHEN, KUO-TSAI, Professor

Articles

Exact dynamic systems are tree-like and vice versa. *Transactions of the American Mathematical Society*, 149, 2:561-67.

A sufficient condition for nonabelianity of fundamental groups of differentiable manifolds. *Proceedings of the American Mathematical Society*, 26, 1:196-98.

CHUNG, KAI LAI, Visiting Professor

Books

Lectures on boundary theory for Markov chains. Princeton University Press, Princeton, New Jersey, 94 pp.

Articles

On diverse questions of time reversing in Markov chains (and processes). *Proceedings of the twelfth biennial seminar of the Canadian Mathematical Congress*, pp. 165-75.

CRAGGS, ROBERT F., Assistant Professor

Articles

Small ambient isotopies of a 3-manifold which transform one embedding of a polyhedron into another. *Fundamenta Mathematicae*, 68, 2:225-56.

Involutions of the 3-sphere which fix 2-spheres. *Pacific Journal of Mathematics*, 32, 2:307-21.

DIAMOND, HAROLD G., Associate Professor

Articles

With J. Steinig

An elementary proof of the prime number theorem with a remainder term. *Inventiones Mathematicae*, 11, 3:199-258.

Asymptotic distribution of Beurling's gen-

eralized integers. *Illinois Journal of Mathematics*, 14, 1:12-28.

A set of generalized numbers showing Beurling's theorem to be sharp. *Ibid.*, 29-34.

DOOB, JOSEPH L., Professor

Articles

Stochastic processes determined by families of continuous functions. In *Proceedings of the international conference on functional analysis and related topics*, Mathematical Society of Japan, Tokyo, pp. 378-82.

Contribution to the Herman Wold Zeitschrift. In *Scientists at work*, Almqvist and Wiksells, Uppsala, pp. 38-39.

State spaces for Markov chains. *Transactions of the American Mathematical Society*, 149, 1:279-305.

Separability and measurable processes. *Journal of the Faculty of Science, University of Tokyo*, 17:297-304.

DORNHOFF, LARRY L., Assistant Professor

Articles

On imprimitive solvable rank 3 permutation groups. *Illinois Journal of Mathematics*, 14, 4:692-707.

Jordan's theorem for solvable groups. *Proceedings of the American Mathematical Society*, 24, 3:353-57.

EJIKE, UWADIEGWU B.C.O., Visiting

Lecturer

Articles

Boundary effects due to body forces and body couples in the interior of a semi-infinite elastic solid. *International Journal of Engineering Science*, 8, 11:909-24.

FINNEY, ROSS L., Associate Professor

Articles

Dynamic proofs of Euclidean theorems. *Mathematics Magazine*, 43, 4:177-85.

With J. Rotman

Paracompactness of locally compact Hausdorff spaces. *Michigan Mathematical Journal*, 17:359-61.

FOSSUM, ROBERT M., Associate Professor

Articles

Duality over Gorenstein rings. *Mathematica Scandinavica*, 26:165-76.

FRANCIS, GEORGE K., Assistant Professor

Articles

Extension to the disk of properly nested plane immersions of the circle. *Michigan Mathematical Journal*, 17:377-83.

C^1 -Equivalence of functions near isolated degenerate critical points in Banach space. *Journal of Mathematical Analysis and Applications*, 32, 2:331-37.

GARFINKEL, GERALD S., Assistant Professor

Articles

With M. Orzech

Galois extensions as modules over the group ring. *Canadian Journal of Mathematics*, 22, 2:242-48.

GOLDBERG, SAMUEL I., Professor

Books

Curvature and homology (rev. ed.). Academic Press, Inc., New York, 315 pp.

Articles

On immersion of complex hypersurfaces of Kähler manifolds. *Revue Roumaine de Mathématiques Pures et Appliquées*, 15, 9:1407-13.

With K. Yano

Manifolds admitting a non-homothetic conformal transformation. *Duke Mathematical Journal*, 37, 4:655-70.

Affine hypersurfaces of complex spaces. *Journal of the London Mathematical Society*, 2, 2:241-50.

Noninvariant hypersurfaces of almost contact manifolds. *Journal of the Mathematical Society of Japan*, 22, 1:25-34.

On normal globally framed f-manifolds. *Tôhoku Mathematical Journal*, 22, 3:362-70.

Polynomial structures on manifolds. *Kodai Mathematical Seminar Reports*, 22, 2:199-218.

GRAY, JOHN W., Professor

Articles

The 2-adjointness of the fibred category construction. In *Symposia Mathematica IV*, ed. by Istituto Nazionale di alta Matematica, Academic Press, London, pp. 457-92.

GRIFFITH, PHILLIP A., Assistant Professor

Books

Infinite abelian group theory. University of Chicago Press, Chicago, 152 pp.

Articles

Extensions of free groups by torsion groups. *Proceedings of the American Mathematical Society*, 24, 4:677-79.

On a subfunctor of Ext. *Archiv der Mathematik*, 21:17-22.

On the decomposition of modules and generalized left uniserial rings. *Mathematische Annalen*, 184:300-8.

With J. C. Robson

A theorem of Asano and Michler. *Proceedings of the American Mathematical Society*, 24, 4:837-38.

HAKEN, WOLFGANG R. G., Professor

Articles

Various aspects of the three-dimensional Poincaré problem. In *Topology of manifolds*, ed. by Y. C. Cantrell and C. H. Edwards, Jr., Markham Publishing Co., Chicago, pp. 140-52.

HARADA, KOICHIRO, Postdoctoral Fellow

Articles

A characterization of the simple group $U_3(5)$. *Nagoya Mathematical Journal*, 38:27-40.

Finite simple groups whose Sylow 2-subgroups are order 27. *Journal of Algebra*, 14, 3:386-404.

With D. Gorenstein

A characterization of Janko's two new simple groups. *Journal of the Faculty of Science, University of Tokyo*, 16, 1:331-406.

HEINS, MAURICE H., Professor

Articles

A boundary problem for vector-valued analytic functions. *Journal d'analyse mathématique*, 23:139-46.

On a theorem of study concerning conformal maps with convex images. In *Mathematical essays in honor of A. J. MacIntyre*, ed.

by H. Shankar, Ohio University Press, Athens, Ohio, pp. 171-76.

HELMs, LESTER L., Professor

Articles

Markov processes with creation of mass, II. *Zeitschrift für Wahrscheinlichkeitstheorie und Verwandte Gebiete*, 15:208-18.

JANUSZ, GERALD J., Associate Professor

Articles

Some remarks on Clifford's theorem and the Schur index. *Pacific Journal of Mathematics*, 32, 1:119-29.

Faithful representations of p-groups at characteristic p. *Journal of Algebra*, 15, 3:335-51.

JERRARD, RICHARD P., Professor

Articles

Curvatures of surfaces associated with holomorphic functions. *Colloquium Mathematicum*, 21, 1:127-32.

JOCKUSCH, CARL G., JR., Assistant Professor

Articles

With R. I. Soare

Minimal covers and arithmetical sets. *Proceedings of the American Mathematical Society*, 25, 4:856-59.

JOHNSON, DAVID L., Visiting Lecturer

Articles

Minimal relations for certain wreath products of groups. *Canadian Journal of Mathematics*, 22, 5:1005-9.

With J. W. Wamsley

Minimal relations for certain finite p-groups. *Israel Journal of Mathematics*, 8, 4:349-56.

KAMBER, FRANZ W., Professor

Articles

With P. M. Tondeur

Invariant differential operators and cohomology of Lie algebra sheaves. *Proceedings of the conference on global differential geometry, Oberwolfach, 1969, Mathematisches Institut, Oberwolfach, Freiberg im Breisgau, 1970:1-54.*

KAUFMAN, ROBERT P., Associate Professor

Articles

Probability, Hausdorff dimension, and fractional distribution. *Mathematika*, 17, 1:63-67.

A method for Fourier transforms. *Proceedings of the Cambridge Philosophical Society*, 67, 3:619-23.

Fractional dimension and the Borel-Cantelli lemma. *Acta Mathematica Hungarica (Budapest)*, 21, 1:235-38.

A functional method for linear sets, II. *Israel Journal of Mathematics*, 7, 4:293-97.

Representation of linear sets as critical sets. *Proceedings of the American Mathematical Society*, 25, 4:884-89.

Perfect sets in some groups. *Studia Mathematica*, 34, 1:17-21.

On the zeros of some random functions. *Ibid.*, 3:291-97.

Brownian motion and dimension of perfect sets. *Canadian Journal of Mathematics*, 22, 3:674-80.

Un polynôme aléatoire en analyse de Fourier. *Comptes Rendus Académie Sciences, Paris*, 270:1101-2.

KNIGHT, FRANK B., Professor

Articles

An infinitesimal decomposition for a class of Markov processes. *The Annals of Mathematical Statistics*, 41, 5:1510-29.

A remark on Markovian germ fields. *Zeitschrift für Wahrscheinlichkeitstheorie und Verwandte Gebiete*, 16, 3:291-96.

MacWILLIAMS, ANNE R., Postdoctoral Fellow

Articles

On 2-groups with no normal Abelian subgroups of rank 3, and their occurrence as Sylow 2-subgroups of finite simple groups. *Transactions of the American Mathematical Society*, 150, 2:345-408.

MENDEL, CLIFFORD W., Professor

Articles

With D. G. Bourgin

Cubes in cubes. *Rendiconti del Circolo Matematico di Palermo*, 17, 3:313-27.

MILES, JOSEPH B., Assistant Professor

Articles

On the counting function for the a -values of a meromorphic function. *Transactions of the American Mathematical Society*, 147, 1: 203-22.

Representing a meromorphic function as the quotient of two entire functions of small characteristic. *Bulletin of the American Mathematical Society*, 76, 6:1308-9.

MULLER, DAVID E., Professor

Articles

With F. P. Preparata

Generation of near-optimal Boolean functions. *Journal of Computer and System Sciences*, 4, 2:93-102.

With Z. Bavel

Connectivity and reversibility in automata. *Journal of the Association for Computing Machinery*, 17, 2:231-40.

PARKER, ERNEST T., Professor

Articles

With L. W. Beineke

On nonreconstructable tournament. *Journal of Combinatorial Theory*, 9, 4:324-26.

With A. Hedayat, W. T. Federer

The existence and construction of two families of designs for two successive experiments. *Biometrika*, 57, 2:351-55.

PERESSINI, ANTHONY L., Associate Professor

Articles

A note on the lattice properties of continuous linear maps. *Mathematische Zeitschrift*, 115:18-22.

Banach limits in vector lattices. *Studia Mathematica*, 35:111-21.

PHILIPP, WALTER V., Associate Professor

Articles

Some metrical theorems in number theory, II. *Duke Mathematical Journal*, 37, 3:447-58.

Some metrical theorems in number theory, II. Errata. *Ibid.*, p. 788.

REINER, IRVING, Professor

Articles

A survey of integral representation theory.

Bulletin of the American Mathematical Society, 76, 2:159-227.

With T. Y. Lam

An excision theorem for Grothendieck rings. *Mathematische Zeitschrift*, 115:153-64.

Restriction maps on relative Grothendieck rings. *Journal of Algebra*, 14, 2:260-98.

ROBINSON, DEREK S., Associate Professor

Articles

On the theory of groups with extremal layers. *Journal of Algebra*, 14, 2:182-93.

A theorem on finitely generated hyperabelian groups. *Inventiones Mathematicae*, 10, 1: 38-43.

ROTHMAN, NEAL J., Associate Professor

Articles

Remarks on duality and semigroups. *Israel Journal of Mathematics*, 8, 1:83-89.

ROTMAN, JOSEPH J., Professor

Books

Notes on homological algebra. Van Nostrand-Reinhold, New York, 211 pp.

Articles

With R. L. Finney

Paracompactness of locally compact Hausdorff spaces. *Michigan Mathematics Journal*, 17:359-61.

RUBEL, LEE A., Professor

Articles

Nonmaximal prime ideals in the ring of holomorphic functions. In *Mathematical essays in honor of A. J. MacIntyre*, ed. by H. Shankar, Ohio University Press, Athens, Ohio, pp. 341-42.

With J. V. Ryff

Bounded analytic functions and the bounded weak-star topology. *Journal of Functional Analysis*, 5, 1:167-83.

With A. L. Shields

The second duals of some spaces of analytic functions. *Journal of the Australian Mathematical Society*, 11, 3:276-80.

SCHUPP, PAUL E., Assistant Professor

Articles

On the conjugacy problem for certain quotient groups of free products. *Mathematische Annalen*, 186, 2:123-29.

On Greendlinger's lemma. *Communications in Pure and Applied Mathematics*, 23, 2: 233-40.

SHERBERT, DONALD R., Associate

Professor

Articles

With J. T. Marti

A note on bases in ordered locally convex spaces. *Commentarii Mathematici Helvetici*, 45, 3:299-302.

STEINIG, JOHN M., Visiting Lecturer

Articles

The changes in sign of fractional integrals. *Mathematische Zeitschrift*, 116, 1:183-90.

The real zeros of Struve's function. *Society for Industrial and Applied Mathematics Journal of Mathematical Analysis*, 1, 3: 365-75.

With H. G. Diamond

An elementary proof of the prime number theorem with a remainder term. *Inventiones Mathematicae*, 11, 3:199-258.

STOLARSKY, KENNETH B., Assistant Professor

Certain semigroups of linear fractional transformations contain elements of arbitrarily large trace. *Illinois Journal of Mathematics*, 14, 2:238-40.

Infinitely many generalizations of Abel's partial summation identity. *The Fibonacci Quarterly*, 8, 4:375-79.

STOUT, WILLIAM F., Assistant Professor

Articles

A martingale analogue of Kolmogorov's law of the iterated logarithm. *Zeitschrift Wahrscheinlichkeitstheorie und Verwandte Gebiete*, 15:279-90.

The Hartman-Wintner law of the iterated logarithm for martingales. *Annals of Mathematical Statistics*, 41, 6:2158-60.

TAKEUTI, GAISI, Professor

A determinate logic. *Nagoya Mathematical Journal*, 38:113-38.

A relativization of axioms of strong infinity to ω_1 . *Annals of the Japan Association for the Philosophy of Science*, 3, 5:191-204.

TANAKA, HISAO, Postdoctoral Fellow

Articles

On a Π_1^0 set of positive measure. *Nagoya Mathematical Journal*, 38:139-44.

Notes on measure and category in recursion theory. *Annals of the Japan Association for the Philosophy of Science*, 3, 5:43-53.

On analytic well-orderings. *Journal of Symbolic Logic*, 35, 2:198-204.

TING, TSUAN W., Professor

Articles

With R. E. Showalter

Pseudoparabolic partial differential equations. *Society for Industrial and Applied Mathematics Journal of Mathematical Analysis*, 1, 1:1-26.

TONDEUR, PHILIPPE M., Professor

Articles

With F. W. Kamber

Invariant differential operators and cohomology of Lie algebra sheaves. *Proceedings of the conferences on global differential geometry, Oberwolfach, 1969, Mathematisches Institut, Oberwolfach, Freiburg im Breisgau, 1970:1-54.*

Reviews

Symmetric spaces, vols. 1 and 2, by Ottmar Loos. *Mathematical Reviews*, 39, 1:73-74.

UHL, J. JERRY, JR., Assistant Professor

Articles

Applications of Radon-Nikodym theorems to martingale convergence. *Transactions of the American Mathematical Society*, 145:271-85.

The compactness of certain dominated operators. *Revue Roumaine de Mathématiques Pures et Appliquées*, 14, 10:1635-37.

Vector integral operators. *Proceedings of the Koninklijke Nederlandse Akademie van Wetenschappen Series A, Mathematical Sciences (Indagationes Mathematicae)*, A73, 5:463-78.

Reviews

A Riemann-type integral that includes Lebesgue-Stieltjes, Bochner and stochastic integrals, by E. J. McShane. *Zentralblatt für*

Mathematik und ihre Grenzgebiete, 188:357.

Derivation and martingales, by C. A. Hayes and C. Y. Pauc. *Ibid.*, 192:406-7.

ULLOM, STEPHEN V., Assistant Professor

Articles

Galois cohomology of ambiguous ideals. *Journal of Number Theory*, 1, 1:11-15.

Normal bases in Galois extensions of number fields. *Nagoya Mathematical Journal*, 34:153-67.

Integral normal bases in Galois extensions of local fields. *Ibid.*, 39:141-48.

A note on the class group of integral group rings of some cyclic groups. *Mathematika*, 17, 1:79-81.

WETZEL, JOHN E., Associate Professor

Articles

Triangular covers for closed curves of constant length. *Elemente der Mathematik*, 25, 4:78-81.

WIJSMAN, ROBERT A., Professor

Articles

Continuity of the Bayes risk. *Annals of Mathematical Statistics*, 41, 3:1083-85.

WOLFOVITZ, JACOB, Professor

Articles

With R. Ahlswede

The capacity of a channel with arbitrarily varying channel probability functions and binary output alphabet. *Zeitschrift für Wahrscheinlichkeitstheorie und Verwandte Gebiete*, 15:186-94.

With L. Weiss

Asymptotically efficient non-parametric estimators of locations and scale parameters. *Zeitschrift für Wahrscheinlichkeitstheorie und Verwandte Gebiete*, 16:134-50.

Maximum probability estimators and asymptotic sufficiency. *Annals Institute Statistical Mathematics*, 22, 2:225-44.

DOCTORAL DISSERTATIONS

Africk, Henry L. (G. Takeuti, Adviser), A proof-theoretic proof of Scott's general interpolation theorem.

Beck, Walter E. (L. A. Rubel, Adviser), Efficient quotient representations of meromorphic functions in the disk.

Behan, Donald F. (J. L. Doob and J. B. Miles, Advisers), On some problems concerning composition semi-groups of analytic functions.

Bertness, Charles H. (I. Reiner and L. R. McCulloch, Advisers), Corresponding residue systems in non-normal extensions of prime degree.

Blanton, John D. (S. S. Cairns, Adviser), Spaces of isotopic triangulations of a 2-cell.

Brady, Michael M. (M. H. Heins, Adviser), Meromorphic solutions of a system of functional equations involving the modular group.

Conatser, Charles W. (R. W. Carroll and R. R. Rao, Advisers), Contractions and deformations of Lie algebras.

Cope, Douglas A. (R. G. Langebartel, Adviser), Integral representations of the confluent hypergeometric function of the second kind.

Eiseman, Peter R. (H. A. Osborn, Adviser), Derivations of function algebras.

Fairchild, Lonnie R. (M. M. Day, Adviser), Extreme invariant means and minimal sets

- in the Stone-čech compactification of a semi-group.
- Fleury, Patrick J. (I. Reiner and M. Barr, Advisers), Aspects of Harrison's homology theory.
- Gardner, Melvin F. (R. B. Ash, Adviser), Spectral decomposition of stochastic processes with parameter in a Hilbert space.
- Giaccai, Gerald J. (K. T. Chen, Adviser), A Hopf algebra generalization of the Wever-Specht formula.
- Gustafson, William H. (I. Reiner, Adviser), Integral relative Grothendieck rings.
- Hadlock, Charles R. (P. V. Kokotovic, Adviser), Singular perturbations of a class of two point boundary value problems arising in optimal control.
- Johnson, Harold R. (F. E. Hohn, Adviser), Infinite strings over finite machines.
- Kaufman, Edwin H. Jr. (R. G. Langebartel and G. G. Belford, Advisors), Properties and construction of certain non-linear families of approximating functions.
- Kennel, Clinton W. (L. A. Rubel, Adviser), Locally outer functions.
- Kieffer, John C. (R. B. Ash, Adviser), A generalization of the Shannon-McMillan theorem and its application to information theory.
- Leviatan, Talma O. (L. L. Helms and J. L. Doob, Advisors), Markov processes with creation and annihilation corresponding to perturbation of Markov processes.
- Lewis, John L. (M. H. Heins, Adviser), Some theorems on the cosine pi lambda inequality.
- Long, Robert L. (I. Reiner and L. R. McCulloh, Advisors), Steinitz classes of relative Galois extensions.
- McCullough, Dean P. (G. Takeuti, Adviser), Modal connectives and intuitionistic modal logic with respect to the Kripke model.
- Mech, William P. (M. M. Day, Adviser), On the monotone extension property.
- Miller, Carman B. (M. Rajagopalan and R. Carroll, Advisors), Topologies on locally compact groups.
- Moore, John K. (R. B. Ash, Adviser), Coding theorems for filtered-waveform channels.
- Orzech, Grace G. (I. Reiner and M. Barr, Advisors), Obstruction theory in algebraic categories.
- Rajput, Balram S. (R. B. Ash, Adviser), Determinable subsets of Banach spaces.
- Reilly, Ivan L. (M. E. Hamstrom, Adviser), Quasi-gauges, quasi-uniformities and bitopological spaces.
- Sein, Hla Hla (M. H. Heins, Adviser), Coefficient problem for positive harmonic functions on an annulus.
- Steinberg, Stuart A. (I. Reiner and E. C. Weinberg, Advisors), Lattice-ordered rings and modules.
- Strutt, Joseph R. A. (P. D. Zvengrowski and H. A. Osborn, Advisors), Projective homotopy classes.
- Takiff, Steven J. (I. Reiner and R. R. Rao, Advisors), On the ring of invariant polynomials for representations of Lie groups.
- Terras, Rihō (I. D. Berg and M. M. Day, Advisors), Almost automorphic functions on topological groups.
- Trombi, Peter C. (R. R. Rao and H. A. Osborn, Advisors), Fourier analysis on semi-simple Lie groups whose split rank equals one.
- Wagner, Neal R. (M. E. Hamstrom, Adviser), Global properties of the space of retractions of the two-sphere and the annulus.
- Woan, Wen-Jin (M. Suzuki, Adviser), A characterization of linear groups.
- Woepfel, James J. (I. Reiner and P. M. Weichsel, Advisors), Finite groups generating a product variety.
- Wolff, Harvey E. (J. W. Gray, Adviser), ν -localizations and ν -triples.
- Zemanek, Janice R. (I. Reiner, Adviser), On the semisimplicity of integral representation rings.

MECHANICAL AND INDUSTRIAL ENGINEERING

ADDY, ALVA L., Associate Professor

Articles

Thrust-minus-drag optimization by base bleed and/or boattailing. *Journal of Spacecraft and Rockets, American Institute of Aeronautics and Astronautics*, 7, 11:1360-62.

Experimental-theoretical correlation of supersonic jet-on base pressure for cylindrical afterbodies. *Ibid.*, 5:474-77.

Bulletins and Technical Reports

Analysis of the axisymmetric base-pressure and base-temperature problem with supersonic interacting freestream-nozzle flows based on the flow model of Korst, and others, III: A computer program and representative results for cylindrical, boattailed or flared afterbodies. Report RD-69-14, U.S. Army Missile Command, Redstone Arsenal, Alabama, 127 pp.

ADKINS, R. WAYNE, Associate Professor

Articles

With C. S. Larson

Basic geometric methods in helical lobe compressor design. *American Society of Mechanical Engineers*, Publication No. 70-WA/FE-23, 10 pp.

BARDES, BRUCE P., Assistant Professor

Articles

With S. N. Singh, M. C. Flemings

Solution treatment of cast Al-4.5 pct Cu alloy. *Metallurgical Transactions*, 1, 5:1383-88.

CHAO, BEI-TSE, Professor

Articles

With J. L. S. Chen

Series solution of unsteady heat or mass transfer to a translating fluid sphere. *International Journal of Heat and Mass Transfer*, 13, 2:359-67.

Thermal response behavior of laminar boundary layers in wedge flow. *Ibid.*, 7:1101-4.

Bulletins and Technical Reports

An approximate theory of imperfect modeling (with application to thermal modeling of spacecrafts). Department of Mechanical and Industrial Engineering, University of Illinois, Urbana, 145 pp.

CHATO, JOHN C., Professor

Articles

With A. Shitzer

On the dimensionless parameters associated with heat transport within living tissue. *Aerospace Medicine*, 41, 4:390-93.

Analytical modeling of the thermal behavior

of living human tissue. *Proceedings, 4th International Heat Transfer Conference, Versailles, France, Number Cu 3.9:1-10.*

With A. Shitzer, F. J. Fry

Measurement of thermal properties of living tissue. *Proceedings, 23rd Annual Conference on Engineering in Medicine and Biology, Washington, D.C., 12:156.*

CHOW, WEN L., Professor

Articles

With K. E. Kasza

Low-speed slip flow over a wedge. *Journal of Applied Mechanics, American Society of Mechanical Engineers, 37, Series E, 2:454-60.*

DOYLE, LAWRENCE E., Professor

Articles

With P. F. Ostwald

Closed bidding strategies to improve the performance of cost estimating. *Society of Manufacturing Engineers Technical Paper, MM70, 721:9.*

HERING, ROBERT G., Professor

Articles

Apparent radiation properties of a rough surface. In *Thermophysics: applications to thermal design of spacecraft*, ed. by Bevans, Academic Press, New York, pp. 337-61.

Comparison of bidirectional reflectance measurements and model for rough metallic surfaces. In *Proceedings of the fifth symposium on thermophysical properties*, ed. by Bonilla, The American Society of Mechanical Engineers, New York, pp. 429-35.

Surface roughness effects on radiant transfer between surfaces. In *Heat transfer, 1970*, ed. by Grigull and Hahne, Elsevier Publishing Co., Germany, pp. 1-11.

With K. K. Prasad

Numerical integration of a non-linear singular integro-differential equation. *Journal of Computational Physics, 6, 5:406-16.*

With T. F. Smith

Surface roughness effects on radiant heat transfer between surfaces. *International Journal of Heat and Mass Transfer, 13, 4:725-39.*

JONES, BARCLAY G., Associate Professor

See Nuclear Engineering.

KLEIN, RICHARD E., Assistant Professor

Articles

State estimation and optimum placement of transducers in a parabolic distributed parameter system. In *Proceedings of the third Hawaii international conference on system sciences*, University of Hawaii, Honolulu, pp. 103-6.

An on-line state estimator for distributed parameter slab reheat furnaces. In *Proceedings of the fourth annual Princeton conference on information and system sciences*, Princeton University, Princeton, New Jersey, pp. 210-14.

A derivative extremal adaptive controller with applications to rotating power systems. In *Proceedings of the 1970 Institute of Electrical and Electronics Engineers Symposium on adaptive processes (9th), decision and control*, University of Texas, Austin, Paper VIII-2.

With J. R. Cannon

Optimal selection of measurement locations for approximate determination of temperature distributions. In *Preprint volume of the 1970 joint automatic control conference*, Georgia Institute of Technology, Atlanta, pp. 750-56.

With R. E. Goodson

A definition and some results for distributed system observability. *Institute of Electrical and Electronics Engineers Transactions on Automatic Control, AC-15, 2:165-74.*

KORST, HELMUT H., Professor and Head of Department

Articles

With W. L. Chow

On the correlation of analytical and experimental free shear layer similarity profiles by spread rate parameters. *Transactions of the American Society of Mechanical Engineers, Journal of Basic Engineering, Publication No. 70-WA/FE-12, 6 pp.*

Reviews

With T. J. Mueller

Laminar separation, reattachment and transition of the flow over a downstream-facing slip, by R. J. Goldstein, and others. *Ibid., 92, 4:739-41.*

LARSON, CARL S., Associate Professor

Articles

With R. W. Adkins

Basic geometric methods in helical lobe compressor design. *American Society of Mechanical Engineers, Publication No. 70-WA/FE-23, 10 pp.*

MORRISON, FRANK A., JR., Associate Professor

Articles

Electrophoresis of a particle of arbitrary shape. *Journal of Colloid and Interface Science, 34, 2:210-14.*

With J. J. Stukel

Electrophoresis of an insulating sphere normal to a conducting plane. *Ibid., 33, 1:88-93.*

OFFNER, DAVID H., Associate Professor

Articles

Computer programs: their use in engineering design courses. In *Proceedings of a conference in the undergraduate curricula*, University of Iowa, Iowa City, pp. 3.13-3.28.

PEDERSEN, CURTIS O., Assistant Professor

Articles

An experimental study of the dynamic behavior and heat transfer characteristics of water droplets impinging upon a heated surface. *International Journal of Heat and Mass Transfer, 13:369-81.*

With W. H. Miller, Jr.

A non-linear analog for duct systems simulation. *Transactions of the American Society of Heating, Refrigerating and Air Conditioning Engineers, 76, Part II:52-57.*

With W. F. Stoecker, R. C. Winn

Optimization of an air-supply duct system. In *Proceedings of the first symposium on the use of computers for environmental engineering related to buildings*, National Bureau of Standards, U.S. Department of Commerce, Gaithersburg, Maryland, 6 pp.

PETRIE, THOMAS W., Assistant Professor

Articles

With E. Pfender

The influence of the cathode tip on temperature and velocity fields in a gas-tungsten arc. *Welding Journal, Research Supplement*, 49, 12:588s-96s.

RADZIMOVSKY, EUGENE I., Professor

Articles

With A. O. Lebeck

The synthesis of tooth profile shapes and spur gears of high load capacity. *Transactions of the American Society of Mechanical Engineers, Journal of Engineering for Industry*, August:543-53.

Bulletins and Technical Reports

With W. E. Broom

Efficiency of the gear train with flexibly connected gears subjected to axial vibration. Sundstrand Aviation, a division of Sundstrand Corporation, Rockford, Illinois, 32 pp.

Reviews

Mechanisms and cams for automatic machines, by C. N. Heklatin. *Transactions of the Association of Russian-American Scholars in USA*, 3:240.

SOO, SHAO L., Professor

Articles

Core velocity distribution in a swirling pipe flow. *Journal of Applied Mathematics and Physics*, 21, 70-1:125-29.

Particulate suspensions and air pollution control research at the University of Illinois. *Particulate Matter*, 1, 2:8-14.

With L. Cheng

Charging of dust particles by impact. *Journal of Applied Physics*, 41, 2:484-91.

With L. Cheng, S. K. Tung

Electrical measurement of flow rate of pulverized coal suspensions. *Transactions of the American Society of Mechanical Engineers, Journal of Engineering for Power*, 92, A-2:135-49.

With G. M. Colver

Heat transfer of partially ionized nitrogen in channel flow. In *Proceedings of the 11th symposium on engineering aspects of magnetohydrodynamics*, California Institute of Technology, Pasadena, vol. 11, pp. 184-89.

With Y. N. Lee

A study of jets of electrically charged suspensions. *Environmental Science and Technology, Industrial and Engineering Chemistry*, 4, 8:678-85.

Reviews

Annual review of fluid mechanics, ed. by W. R. Sears, *Applied Mechanics Review*, 23, 7:809-10.

Proceedings of thermodynamics and fluid mechanics convention, by Institute of Mechanical Engineers. *Ibid.*, 7:833.

Progress in heat and mass transfer, ed. by Grigull and Habne. *Ibid.*, 11:1323.

SORENSEN, SPENCER C., Assistant Professor

Articles

With P. S. Myers, O. A. Uyehara

The reaction of ethane in spark ignition engine exhaust gas. *Society of Automotive Engineers Paper*, Publication No. 700471, 12 pp.

STOECKER, WILBERT F., Professor

Articles

With C. O. Pedersen, W. C. Winn

Optimization of an air-supply duct system. In *Proceedings of the first symposium on the use of computers for environmental engineering related to buildings*, National Bureau of Standards, U.S. Department of Commerce, Gaithersburg, Maryland, 6 pp.

STUKEL, JAMES J., Assistant Professor

Articles

With F. A. Morrison, Jr.

Electrophoresis of an insulating sphere normal to a conducting plane. *Journal of Colloid and Interface Science*, 33, 1:88-93.

VON TURKOVICH, BRANIMIR F., Professor

Articles

Shear stress in metal cutting. *Transactions of the American Society of Mechanical Engineers, Journal of Engineering for Industry*, 92:151-57.

With J. T. Black

Micro-machining of copper and aluminum crystals. *Ibid.*, pp. 92-98.

WHITE, ROBERT A., Associate Professor

Articles

With O. W. McGregor

Drag of rectangular cavities in supersonic and transonic flow including the effects of cavity resonance. *American Institute of Aeronautics and Astronautics Journal*, 8, 11:1959-64.

DOCTORAL DISSERTATIONS

Brink, Donald F. (W. L. Chow, Adviser), Jet mixing under the influence of a pressure gradient.

Cheema, Lakhvendar S. (B. T. Chao, Adviser), Forced convection in laminar boundary layer over wedges of arbitrary temperature and flux distribution.

De Paiva Netto, Joaquim Severino (B. T. Chao, Adviser), Thermal modeling of spacecrafts.

Doornink, Dean G. (R. G. Hering, Adviser), Unsteady radiative and conductive heat transfer in non-gray materials.

Houchens, Albert F. (R. G. Hering, Adviser), Real surface effects on radiative heat transfer.

Hurt, Robert F. (W. L. Hull, Adviser), A theoretical and experimental investigation of axisymmetric, non-homogeneous, compressible turbulent mixing.

Lilienthal, Peter F., II (H. H. Korst, Adviser), Development of viscous free shear layers between two compressible constant pressure isoenergetic streams with special considerations of its dissipative mechanisms.

McGeachy, John D. (W. L. Chow, Adviser), Theoretical and experimental studies of a feedback jet oscillator.

Pleck, Michael H. (B. F. von Turkovich, Adviser), Dynamics of orthogonal chip formation with constant energy input (applied to 65/35 brass, t.p.e. copper and 6061-T6 Aluminum).

Shell, Richard L. (K. J. Trigger, Adviser), A work measurement system for computer programming operations.

METALLURGY AND MINING ENGINEERING

ALTSTETTER, CARL J., Professor

Articles

With D. Hennessy

Precipitation kinetics in Nb(Cb)-N alloys. *Metallurgical Transactions*, 1, 5:1185-88.

With M. Rashid

Defects and strengthening in transformed crystals. *Strength of Metals and Alloys Conference Proceedings*, American Society for Metals, Metals Park, Ohio, pp. 843-47.A computer program for x-ray line broadening analysis. *Journal of Applied Crystallography*, 3, 3:120-23.X-ray study of deformed and transformed Co-Ni single crystals. *Journal of Applied Physics*, 41, 13:5180-87.

With D. Potter

Ordered orthorhombic subnitride of vanadium. *Scripta Metallurgica*, 4:849-52.

With H. Savage

Composition of phases in niobium nitrogen and niobium-zirconium-nitrogen alloys. *Journal of Less Common Metals*, 22:399-407.

BARDES, BRUCE P., Assistant Professor

See Mechanical and Industrial Engineering.

BECK, PAUL A., Professor

Articles

With H. Claus

Density of states information from low temperature specific heat measurements. *Journal of Research of the National Bureau of Standards*, 74A, 3:449-54.

With H. Claus, S. Mishra

Paramagnetism in Ni-Cu alloys. *Physics Letters*, 31A, 9:493-94.

With E. J. Hayes

Low temperature specific heat and magnetic study of precipitation in a copper-cobalt alloy. *Metallurgical Transactions*, 1:3267-71.

BIRNBAUM, HOWARD K., Professor

Articles

With B. K. Ganguly, C. Baker

The frequency dependence of dislocation damping in niobium. *Journal of Physics and Chemistry of Solids*, 31:1877-81.Dislocation pipe diffusion in silver single crystals. *Metallurgical Transactions*, 1: 2025.

With B. D. Trott

Extension of a theory of damping due to dislocations. *Journal of Applied Physics*, 41: 4418-33.Time dependence of dislocation damping. *Journal of Applied Physics*, 41:4434-38.

With D. G. Franklin

Apparatus for measuring internal friction in thin wires. *Review of Scientific Instruments*, 42:168.

With J. H. Evans, B. L. Eyre

The low temperature recovery behavior of nitrogen quenched into molybdenum. *Acta Metallurgica*, 18:835.

With R. P. Watson, W. L. Haworth

Spark erosion cutting of germanium. *Review of Scientific Instruments*, 41, 11:1575-76.

DE MAYO, BENJAMIN, Research Associate

Articles

With D. W. Forester, S. Spooner

Effects of atomic configuration in changes on

hyperfine interactions in concentrated iron-cobalt alloys. *Journal of Applied Physics*, 41, 3:1319-20.

HAWORTH, W. LANCE, Research Associate

Articles

With R. B. Gordon

Pressure dependence of dislocation velocity in ionic crystals. *Physica Status Solidi (a)*, 3, 2:503-10.

LAWRENCE, FREDERICK V., Assistant

Professor

See Civil Engineering.

LIEBERMAN, DAVID S., Professor

Articles

Crystal geometry and mechanisms of phase transformations in crystalline solids. In *Phase transformations*, American Society for Metals, Metals Park, Ohio, pp. 1-58.

With D. Gupta

Self-diffusion in Cs Cl-type ordered alloys. In *Ordered alloys*, Claitor's Publishing Division, Baton Rouge, Louisiana, pp. 195-213.

With S. G. Fishman, D. Gupta

Diffusivity and isotope-effect measurements in equiatomic Fe-Co. *Physical Review B*, 2, 6:1451-60.

With B. K. Das, M. A. Schmerling

Some aspects of phase transformations in near equi-atomic Nb-Ru alloys. *Materials Science and Engineering*, 6, 4:248-64.Phase transformations in near equi-atomic Ta-Ru alloys. *Metallurgical Transactions*, 1:3273-78.

RICKETTS, BERNARD G., Professor

Articles

With W. T. Shieh

Experimental study of the elastic-modulus effect in the interaction of vacancies with dislocations and dislocation ribbons in pure silver. *Journal of Applied Physics*, 41:522-31.

RISSER, HUBERT E., Professor

Articles

Coal gasification. In *McGraw-Hill encyclopedia of science and technology yearbook*, pp. 150-52.Power and the environment—a potential crisis in energy supply. *Environmental Geology Notes*, 40, Illinois State Geological Survey, Urbana, Illinois, 47 pp.

ROWLAND, THEODORE J., Professor

Articles

With F. Y. Fradin

⁶³Cu nuclear magnetic relaxation in Cu-Ni alloys near the critical concentration. *Solid State Communications*, 8, 13: 1047-50.

SCHEIDEGGER, ADRIAN E., Professor

Books

Theoretical geomorphology (second rev. ed.), Springer Verlag, Berlin-Heidelberg-New York, 435 pp.

Articles

The large-scale tectonic stress field in the earth. In *The megatectonics of continents and oceans*, ed. by Elgi Johnson and Bennett L. Smith, Rutgers University Press, New Brunswick, New Jersey, pp. 223-40.

- On the theory of evolution of river nets. *Bulletin of International Association of Scientific Hydrology*, 15, 1:109-14.
- Stochastic models in hydrology. *Water Resources Research*, 6:750-55.
- On the rheology of rock creep. *Rock Mechanics*, 2:138-45.
- The rheology of the earth in the intermediate time range. *Annali di Geofisica, Roma*, 23, 1:27-43.
- With G. Ranalli*
Rheology of the tectonosphere as inferred from seismic aftershock sequences. *Ibid.*, 22, 3:293-306.
- With E. Gerber*
Stress-induced weathering of rock masses. *Eclogae Geologicae Helveticae*, 62, 2:401-15.
- SIMON, JACK A.
- Articles
With R. J. Helfinstine, N. S. Shimp, M. R. Hopkins
Sulfur reduction of Illinois coals-washability tests. *Illinois Geological Survey Environmental Geology Note 34*, 12 pp.
- WAYMAN, C. MARVIN, Professor
- Articles
With H. M. Clark
Surface relief effects in solid state phase transformations. In *Phase transformations*, American Society for Metals, Cleveland, Ohio, pp. 59-114.
- Martensitic transformations. In *Modern diffraction and imaging techniques in materials science*, ed. by S. Amelinckx and others, North Holland Publishing Company, Amsterdam, pp. 187-232.
- With M. Oka*
Some observations on the martensite substructure in an Fe-3%Cr-1.5%C alloy. *Transactions of Japan Institute of Metals*, 10: 411-13.
- With Y. Fukano*
Dendritic growth of evaporated chromium. *Journal of Crystal Growth*, 7:163-76.
- With T. P. Darby*
The growth of Au films on graphite in ultra-high vacuum. *Physica Status Solidi (a)*, 1: 729-48.
- With K. Shimizu, M. Oka*
The association of martensite platelets with austenite stacking faults in an Fe-8Cr-1C alloy. *Acta Metallurgica*, 10:1005-11.
- With S. Jana*
The morphology and substructure of martensite in a Fe-Mn-Cr-C alloy. *Metallurgical Transactions*, 1:2825-32.
- Crystallography of the {225} martensite transformation in a Fe-Mn-Cr-C alloy. *Ibid.*, 2815-24.
- With D. P. Dunne*
On the validity of methods for determining the shape strain in deformation twinning and martensite transformations. *Acta Metallurgica*, 18:981-90.
- Discussion of 'on the morphology and substructure of martensite'. *Metallurgical Transactions*, 1:2009.
- With H. M. Ledbetter*
A computer program for martensite crystallography. *Journal of Materials Science and Engineering*, 5:872-76.
- WERT, CHARLES A., Professor and Head of Department
- Books
With R. M. Thomson
Physics of solids (second ed.). McGraw-Hill Book Company, New York, 522 pp.
- Articles
Damping of interstitial atoms in bcc metals. *Journal of Physics and Chemistry of Solids*, 31:1771-83.
- With D. O. Thompson, O. Buck*
Internal friction of Nb-H alloys. *Journal of Physics and Chemistry of Solids*, 31:1793-98.
- DOCTORAL DISSERTATIONS
Chakrabarti, Dhruvajyoti (P. A. Beck, Adviser), Transport properties of chromium-aluminum solid solution alloys.
- Chow, Celia C. L. (A. E. Scheidegger, Adviser), Statistical theory and application of mass displacement processes in porous media.
- Dahlstrom, Norris A. (C. A. Wert, Adviser), The internal friction cold work peak in the niobium-nitrogen system.
- Franklin, David G., III (H. K. Birnbaum, Adviser), Anelastic study of divacancy damping in gold.
- Hayes, Eric J. (P. A. Beck, Adviser), Low temperature specific heat and magnetic study of precipitation in a copper-cobalt alloy.
- Jana, Sukumar (C. M. Wayman, Adviser), The crystallography and electron metallography of the {252} Martensite transformation in a Fe-Mn-Cr-C alloy.
- Ledbetter, Hassell M., Jr. (C. M. Wayman, Adviser), The crystal structure and Martensitic transformation in near-equiatomic AuCd.
- Merriman, Edmund A. (C. M. Wayman, Adviser), Superplastic deformation in a eutectic alloy of cadmium and zinc.
- Patrician, Thomas J. (C. M. Wayman, Adviser), Nucleation and growth of evaporated cobalt films.
- Potter, Donald I. (C. J. Altstetter, Adviser), Phase transformations involving interstitial ordering in the vanadium-nitrogen system.
- Ranalli, Giorgio (A. E. Scheidegger, Adviser), Rheological properties of rocks as inferred from the study of earthquake aftershock sequences.
- Rarey, Charles R. (C. A. Wert, Adviser), Mössbauer study of the tempering of Martensite.
- Thakur, Tukrel R. (A. E. Scheidegger, Adviser), Statistical models of river meanders.
- MICROBIOLOGY
- BRYANT, MARVIN P., Professor
See Dairy Science.
- CAMPBELL, L. LEON, Professor and Head of Department
- Articles
With H. Drucker, E. B. Trousil
Purification and properties of cytochrome c_3 of *Desulfovibrio salaxigens*. *Biochemistry*, 9:3395-400.
- With H. Drucker, R. W. Woody*
Optical rotatory properties of the cytochromes c_3 from three species of *Desulfovibrio*. *Biochemistry*, 9:1519-27.

With H. Drucker, E. B. Trousil, G. H. Barlow, E. Margoliash

Amino acid composition, heme content, and molecular weight of cytochrome c_3 of *Desulfovibrio desulfuricans* and *Desulfovibrio vulgaris*. *Biochemistry*, 9:1515-18.

CARL, PHILIP L., Assistant Professor

Articles

Escherichia coli mutants with temperature-sensitive synthesis of DNA. *Molecular and General Genetics*, 109:107-22.

DEMOSS, RALPH D., Professor

Articles

With A. Catena

Physiological and kinetic studies with anthranilate synthetase of *Bacillus alvei*. *Journal of Bacteriology*, 101:476-82.

With S. K. Griffiths

Physiological comparison of L-serine dehydratase and tryptophanase from *Bacillus alvei*. *Journal of Bacteriology*, 101:813-20.

DRAKE, JOHN W., Professor

Books

The molecular basis of mutation. Holden-Day, Inc., San Francisco, 273 pp.

Articles

With E. O. Greening

Suppression of chemical mutagenesis in bacteriophage T4 by genetically modified DNA polymerases. *Proceedings of the National Academy of Sciences*, 66, 3:823-29.

With R. E. Koch

Cryptic mutants of bacteriophage T4. *Genetics*, 65, 379-90.

With D. M. Lindstrom

Mechanics of frameshift mutagenesis in bacteriophage T4: role of chromosome tips. *Proceedings of the National Academy of Sciences*, 65, 3:617-24.

With E. F. Allen, I. Albrecht

Properties of bacteriophage T4 mutants defective in DNA polymerase. *Genetics*, 65: 187-200.

KALLIO, REINO E., Professor and Director of the School of Life Sciences

Articles

With D. T. Gibson, G. E. Cardini, F. C. Maseles

Incorporation of oxygen-18 into benzene by *Pseudomonas putida*. *Biochemistry*, 9:1631-35.

KAPLAN, SAMUEL, Associate Professor

Articles

With B. Marrs

23s precursor ribosomal RNA of *Rhodospseudomonas spheroides*. *Journal of Molecular Biology*, 49:297-317.

KONISKY, JORDAN, Assistant Professor

Articles

With F. M. Richards

Characterization of colicin Ia and colicin Ib. *The Journal of Biological Chemistry*, 245, 11:2972-78.

McKENNA, EVA J., Research Assistant Professor

Articles

With M. J. Coon

Enzymatic ω -oxidation. IV. Purification and properties of the ω -hydroxylase of *Pseudo-*

monas oleovorans. *The Journal of Biological Chemistry*, 245, 15:3882-89.

MEYER, RICHARD C., Associate Professor
See Veterinary Pathology and Hygiene.

ORDAL, Z. JOHN, Professor

See Food Science.

SYIPHERD, PAUL S., Associate Professor

Articles

With D. M. O'Neil, M. M. Taylor

The chemical and genetic structure of bacterial ribosomes. *Cold Spring Harbor Symposium on Quantitative Biology*, 34:77-84. 1969.

VOSS, EDWARD W., Assistant Professor

Articles

With J. S. Gallagher

Immune precipitation of purified chicken antibody at low pH. *Immunochemistry*, 7:771-85.

With J. L. Winkelhake

Recognition of carrier residues adjacent to haptens by antitrinitrophenyl antibodies. *Biochemistry*, 9:1845-53.

With S. Rudikoff, M. M. Sigel

Biological and chemical properties of natural antibodies in the nurse shark. *Journal of Immunology*, 105, 6:1344-52.

With W. J. Russell, M. M. Sigel

Some characteristics of anti-dinitrophenyl antibody of the gray snapper. *Ibid.*, pp. 262-64.

WACHSMAN, JOSEPH T., Associate Professor

Articles

With V. Irwin

Methylated bases of *Bacillus megaterium* KM nucleic acids: comparison with *Escherichia coli*. *Journal of Bacteriology*, 104:814-18.

With M. Wu

Effect of selenomethionine on growth of *Escherichia coli* and *Bacillus megaterium*. *Ibid.*, pp. 1393-96.

With D. H. Levin, G. Acs

Ribonucleoside triphosphate-dependent pyrophosphate exchange of reovirus cores. *Journal of Virology*, 6:563-65.

WOESE, CARL R., Professor

Articles

Codon recognition: the allosteric ribosome hypothesis. *Journal of Theoretical Biology*, 26:83-88.

Molecular mechanics of translation: a reciprocating ratchet mechanism. *Nature*, 226, 5248:817-20.

The genetic code in prokaryotes and eukaryotes. *Symposia of the Society for General Microbiology*, 20:39-54.

The problem of evolving a genetic code. *BioScience*, 20, 8:471-85.

WOLFE, RALPH S., Professor

Articles

With E. E. Ishiguro

Control of morphogenesis in *Geodermatophilus*: ultrastructural studies. *Journal of Bacteriology*, 104:566-80.

With R. L. Uffen

Anaerobic growth of purple nonsulfur bacteria under dark conditions. *Ibid.*, pp. 462-72.

With A. M. Robertson

Adenosine triphosphate pools in *Methanobacterium*. *Ibid.*, 102:43-51.

WOLIN, MEYER J., Professor

See Dairy Science.

DOCTORAL DISSERTATIONS

Gallagher, Joan S. (E. W. Voss, Jr., Adviser), Relationship of physicochemical properties of chicken antibody to high salt requirement for immune precipitation.

Kacian, Daniel L. (S. Spiegelman, Adviser), Characterization of the $\beta\beta$ virus-associated 6S RNA.

McBride, Barry C. (R. S. Wolfe, Adviser), Transmethylation reactions in *Methanobacterium* strain M. o. H.

O'Neil, Dennis M. (P. S. Sypherd, Adviser), Genetic mapping of 30S and 50S ribosomal protein cistrons by intergeneric transduction and conjugation.

Ray, Usharanjan (J. W. Drake, Adviser), Lethal and mutagenic effects of ethyl methane-sulfonate on bacteriophage T4.

Strnad, Bruce C. (P. S. Sypherd, Adviser), Immunological and stoichiometric relationships of proteins unique to the 30S ribosomal subunit.

MUSIC

BEHAGUE, GERARD H., Associate Professor

Articles

Musica 'barroca' mineira: problemas de fontes e estilística. *Universitas, Revista de Cultura da Universidade da Bahia*, 2:131-58.

Luiz Cosme (1908-1965): impulso creador versus conciencia formal. *Yearbook, Inter-American Institute for Musical Research*, 5, Tulane University, New Orleans, Louisiana, pp. 67-89.

BERGETHON, BJORNAR W., Professor

Books

With E. Boardman

Musical growth in the elementary school (second ed.). Holt, Rinehart, and Winston, New York, 308 pp.

BINKERD, GORDON W., Professor

Music

Ave Maria, for mixed chorus. Boosey & Hawkes, New York, 6 pp.

To electra, set I; for mixed chorus. *Ibid.*, 61 pp.

Love looks for love, for women's voices. *Ibid.*, 8 pp.

I dare not aske a kisse, for mixed voices. *Ibid.*, 8 pp.

'Tis ev'ning, my sweet, for mixed voices. *Ibid.*, 11 pp.

Upon electra's teares, for mixed voices. *Ibid.*, 15 pp.

More white than lillies faire, for mixed voices. *Ibid.*, 19 pp.

Epitaphs, for mixed chorus. *Ibid.*, 12 pp.

Eternitie, for mixed chorus. *Ibid.*, 20 pp.

Garden, for mixed chorus. *Ibid.*, 6 pp.

Hope is the thing with feathers, for women's chorus. *Ibid.*, 15 pp.

Huswifery, for mixed chorus. *Ibid.*, 12 pp.

Institutional canons (texts from public inscriptions on the campus of the University of Illinois) for mixed voices. *Ibid.*:

The wealth of Illinois is in her soil (Davenport Hall). *Ibid.*, 14 pp.

There is in souls a sympathy with sound (Smith Music Hall). *Ibid.*, 3 pp.

To thy happy children (Alma Mater Statue). *Ibid.*, 3 pp.

The last invocation, for mixed chorus. *Ibid.*, 8 pp.

And I am old to know, for high voice and piano. *Ibid.*, 15 pp.

Three songs for mezzo-soprano and string quartet, score and parts. *Ibid.*, 32 pp.

Ibid., with piano accompaniment. *Ibid.*, 24 pp.

Sonata for cello and piano. *Ibid.*, 56 pp.

Trio for clarinet, viola and cello, score & parts. *Ibid.*, 32 pp.

String quartet no. 2, score and parts. *Ibid.*, 38 pp.

Duo for flute and oboe, score and parts. *Ibid.*, 18 pp.

Symphony no. 3. *Ibid.*, 83 pp.

COGGINS, WILLIS R., Professor

Books

Studies and melodious etudes for alto saxophone (intermediate). Belwin Mills, Rockville Centre, New York, 32 pp.

Studies and melodious etudes for tenor saxophone (intermediate). *Ibid.*, 32 pp.

Studies and melodious etudes for baritone saxophone (intermediate). *Ibid.*, 32 pp.

Aria for alto saxophone and piano. *Ibid.*, saxophone 1 p., accompaniment 4 pp.

With F. Weber

Alto saxophone student (intermediate). *Ibid.*, 48 pp.

Tenor saxophone student (intermediate). *Ibid.*, 48 pp.

Baritone saxophone student (intermediate). *Ibid.*, 48 pp.

Music

With R. Girlamo

Andantino, for baritone saxophone and piano. *Ibid.*, saxophone 1 p., piano 3 pp.

Little Waltz, for baritone saxophone and piano. *Ibid.*, saxophone 1 p., piano 3 pp.

EDLEFSEN, BLAINE E., Professor

Books

The oboe student; intermediate level. Belwin-Mills Publishing Corporation, Rockville Centre, New York, 40 pp.

Music

Studies and melodious etudes for oboe; intermediate level. *Ibid.*, 32 pp.

Tunes for oboe technic; intermediate level. *Ibid.*, 32 pp.

ELLISTON, RONALD J., Instructor

Bulletins and Technical Reports

With J. B. Lyke, G. Berenson, J. Marshall

Recommended piano literature from 1960-1970. Extension in Music, University of Illinois, Urbana, 18 pp.

FRUM, BERNARD, Assistant Professor

Articles

An early example of dramatic procedures in 18th-century keyboard music. *The Music Quarterly*, 56, 2:230-46.

GONZO, CARROLL L., Assistant Professor

Reviews

An experiment in developing basic listening skills through programmed instruction, by

- Warren Rasmussen. *Council for Research in Music Education*, Bulletin 19, Winter, 19 pp.
- A guide for the cooperating teacher in music, by Harold Bauer. *Ibid.*, Fall, 22 pp.
- JOHNSTON, BENJAMIN B., JR., Professor
Articles
How to cook an albatross. *Arts in Society*, 7, 1:34-38.
With R. Browne, B. Childs, S. Martirano, R. Travis
Panel discussion: theatre music. *Proceedings of the third annual conference, April, 1968, and the second summer institute in compositional studies, August, 1968*, 3:37-61.
With E. Kobrin
Phase 1-a. *Source* 7, 4, 1:27-45.
- Music
4 Do-it-yourself pieces (casta*; recipe for a *; conference, a telephone happening; knocking piece 2). Media Press, Champaign, Illinois, 7 pp.
- KROLICK, EDWARD J., Professor
Articles
Suggested bass technique and care of the instrument. *The School Musician*, 42, 3:20, 22, 23.
- LYKE, JAMES B., Associate Professor
Bulletins and Technical Reports
With G. Berenson, R. Elliston, J. Marshall
Recommended piano literature from 1960-1970. Extension in Music, University of Illinois, Urbana, 18 pp.
- NETTL, BRUNO, Professor
Articles
Attitudes towards Persian music in Tehran, 1969. *Musical Quarterly*, 56, 2:183-97.
Examples of popular and folk music from Khorasan. In *Musik als Gestalt und Erlebnis: Festschrift Walter Graf zum 65. Geburtstag*, ed. by Erich Schenk, H. Böhlau, Wien, Austria, pp. 138-46.
Ethnomusicology in American music education. In *Papers of the Yugoslav-American seminar on music*, ed. by Malcolm H. Brown. Indiana University Press, Bloomington, pp. 173-78.
- RINGER, ALEXANDER L., Professor
Articles
Mozart and the Josephian era: some socio-economic notes on musical change. *Current Musicology*, 9:158-65.
Beethoven and the London pianoforte school. *Musical Quarterly*, 56, 4:742-58.
- Bulletins and Technical Reports
An experimental program in the development of musical literacy. U.S. Department of HEW, Office of Education, Washington, D.C., 95 pp.
- ROLLAND, PAUL, Professor
Articles
Arm balance, a critical element of efficient bow and vibrato technique. *The Strad* (London), 81:961, 21-31; 962, 63-67.
Arm balance, a critical element of efficient bow and vibrato technique. *The Instrumentalist*, 24, 6:55-59.
- SMITH, ROBERT B., Professor
See Department of Home Economics.
- WISNIEWSKI, THOMAS J., Assistant Professor
Articles
Whatever happened to "excellence" in our school orchestra programs? *Lyons Music News*, 19, 2:10.
Will the real Shinichi Suzuki please stand up. *Ibid.*, 1:3.
The contest syndrome. *Ibid.*, 2:1, 10.
Sleepers awake. *Ibid.*, 3:16.
Today's knowledge, tomorrow's ignorance and you. *Ibid.*, 18, 3:5.
- DOCTORAL DISSERTATIONS
Anderson, Charles A. (B. Nettl, Adviser), Some aspects of melodic structure and style in the early and middle-period keyboard sonatas of Joseph Haydn.
Butler, Bartlett R. (A. L. Ringer, Adviser), Liturgical music in sixteenth-century Nürnberg. A socio-musical study.
Drake, Kenneth O. (N. M. Temperley, Adviser), A study of the Beethoven piano sonatas in the light of evidence provided by Beethoven's pupils.
Erickson, Karle J. (C. Leonhard, Adviser), The choral music of Daniel Moe (1926-) written between 1952 and 1967.
Foster, Barbara R. (B. Nettl, Adviser), Dramatic contrast in the keyboard sonatas of Domenico Scarlatti to 1746.
Grose, Gerald K. (C. Leonhard, Adviser), A study of the effect of use of the video tape-recorder in the teaching of beginning conducting.
Hanson, Richard D. (C. Leonhard, Adviser), An analysis of selected choral works of F. Melius Christiansen.
Kaderavek, Milan R. (G. W. Binkerd, Adviser), Stylistic aspects of the late chamber music of Leoš Janáček: an analytic study. Composition: music for orchestra.
Kudlawiec, Dennis P. (C. Leonhard, Adviser), The application of Schenkerian concepts of musical structure to the analysis segment of basic theory courses at the college level.
Lucas, Theodore D. (B. Nettl, Adviser), The musical style of the Shipibo Indians of the upper Amazon.
Newell, Robert M. (B. Johnston and S. Goldthwaite, Advisers), Writing for singers in the sixties. Composition: the graduate manual.
Pendle, Karin S. (C. E. Hamm, Adviser), Eugène Scribe and French opera of the nineteenth century.
Pullano, Frank L. (K. Kellogg and S. Goldthwaite, Advisers), A study of the published German songs of Yrjö Kilpinen.
Runestad, Cornell J. (N. M. Temperley, Adviser), The masses of Joseph Haydn: a stylistic study.
Schaeffer, John G. (N. M. Temperley, Adviser), The influence of the late Baroque instrumental concerto on Bach's free forms for organ and clavier.
Smiley, Marilyn J. (C. E. Hamm, Adviser), The Renaissance organ magnificent.
Thomas, Elmer R. (C. E. Hamm, Adviser), Two Petrucci prints of polyphonic lamentations, 1506
Van Wye, Benjamin D. (N. M. Temperley, Adviser), The influence of the plainsong restoration on the growth and development of the modern French liturgical organ school.

NATURAL HISTORY MUSEUM

HENRIKSEN, HARRY C., Curator of Exhibits

Articles

The protection of organic artifacts from the effects of high humidity. *Quarterly Midwest Museums Conference*, 30, 2:9-10.

HOFFMEISTER, DONALD F., Professor and Director of Museum

Articles

The seasonal distribution of bats in Arizona: a case for improving mammalian range maps. *The Southwestern Naturalist*, 15, 1:11-22.

Bulletins and Technical Reports

Museums A.D. 2000. The Midwest Museums Conference, 1969, Special Publication, p. 23.

NATURAL HISTORY SURVEY

WHITE, CLARENCE E., Assistant Entomologist

Articles

With E. J. Arbrust, S. J. Roberts

Mating preference of eastern and western strains of the alfalfa weevil. *Journal of Economic Entomology*, 63, 2:674-75.

Feeding behavior of alfalfa weevil larvae parasitized by *Bathyplectes curculionis*. *Journal of Economic Entomology*, 63, 5: 1689-90.

NUCLEAR ENGINEERING

AXFORD, ROY A., Professor

Bulletins and Technical Reports

Constrained optimal programming problems in reactor statics. Atomic Energy Commission Research and Development Report, LA-4267, Clearinghouse for Federal Scientific and Technical Information, Springfield, Virginia, pp. 1-30.

BORESI, ARTHUR P., Professor

See Theoretical and Applied Mechanics.

CHILTON, ARTHUR B., Professor

Articles

With E. E. Morris

Buildup factors in water for gamma rays of 1 MeV and lower energy. *Nuclear Science and Engineering*, 40, 1:128-29.

Moments method solutions of the adjoint gamma-ray transport equation. *Transactions of the American Nuclear Society*, 13, 1: 405.

DORNING, JOHN J., Associate Professor

Articles

Transport theory for kinetic models via analytic continuation. *Transactions of the American Nuclear Society*, 13, 1:200-1.

Extrapolation distances and diffusion parameters via pulsed neutron analysis. *Nuclear Science and Engineering*, 41, 1:22-28.

With A. Ginsberg

Pulse neutron decay in heavy water spheres. *Ibid.*, pp. 138-40.

With B. Nicolaenko, J. K. Thurber

An integral identity due to Ramanujan which occurs in neutron transport theory. *Journal of Mathematics and Mechanics*, 19, 5:429-38.

DUCOFF, HOWARD S., Professor

See Physiology and Biophysics.

GUYOT, JEAN C., Research Associate

Articles

With G. H. Miley, J. T. Verdeyen, T. Ganley
Measurement of atomic metastable densities in a plasma created by nuclear radiations. *Transactions of the American Nuclear Society*, 13, 1:77-78.

MILEY, GEORGE H., Professor

Articles

Experience teaching a fusion design seminar. In *Proceedings, symposium on thermonuclear reactor design, USAEC-TID, Oak Ridge, Tennessee*, pp. 376-86.

With P. K. Doshi

Neutron pulse propagation in a multiplying medium. *Nuclear Science and Engineering*, 39, 2:182-92.

With L. B. Miller

Some monte carlo techniques for the calculation of doppler coefficients. *Ibid.*, 40, 3: 438-48.

With H. H. Hassan

Verification of space-time reactor kinetics analysis by experiments. *Ibid.*, pp. 448-59.

With J. C. Guyot, J. T. Verdeyen, T. Ganley

Measurement of atomic metastable densities in plasma created by nuclear radiations. *Transactions of the American Nuclear Society*, 13, 1:77-78.

PEARSON, JOHN E., Professor

See General Engineering.

WYMAN, MARVIN E., Professor

Bulletins and Technical Reports

Survey of research reactors. National Academy of Science, Washington, D.C., 38 pp.

DOCTORAL DISSERTATIONS

Burchill, William E. (B. G. Jones, Adviser), Statistical properties of velocity and temperature in isothermal and nonisothermal turbulent pipe flow.

Dolan, Thomas J. (J. T. Verdeyen, Adviser), Electrostatic-inertial plasma confinement.

Janzow, Edward F. (B. T. Chao, Adviser), An experimental study of salt entrainment in ice crystallized from brine.

Morris, Edgar E. (A. B. Chilton, Adviser), A study of the penetration of gamma radiation through thin slabs oriented at right angles to each other.

Rohan, Paul E. (R. A. Axford, Adviser), Comparisons of transport and diffusion theory calculations of performance characteristics for large fast reactors.

Shapiro, Norton L. (M. E. Wyman and B. W. Wehring, Advisers), A study of the internal conversion electrons emitted by different elements produced in the fission of Cf^{252} .

Spencer, Bruce W. (B. G. Jones, Adviser), Statistical investigation of turbulent velocity and pressure fields in a two-stream mixing layer.

NUTRITIONAL SCIENCES**DOCTORAL DISSERTATIONS**

Allee, Gary L. (D. H. Baker, Adviser), Effect of dietary protein and fat, age and periodicity of eating on performance and carcass char-

- acteristics and on lipogenesis and enzymatic activity in adipose tissue of the pig.
- Anderson, Gerald H. (H. H. Draper, Adviser), The physiological effects of the dietary calcium-to-phosphorus ratio on bone resorption and magnesium metabolism in adult rats.
- Bergan, James G. (H. H. Draper, Adviser), The absorption and metabolism of 1-¹⁴C-methyl linoleate hydroperoxide.
- Landers, Robert E. (G. A. Leveille, Adviser), Studies on hexokinase isoenzymes in chicken liver.
- Madappally, Mathew M. (S. P. Mistry, Adviser), Chicken liver pyruvate holocarboxylase: studies on its synthesis from the apoprotein and biotin and its protection by sulphate ions against avidin inhibition.
- Reber, Robert J. (H. H. Draper, Adviser), The digestion, absorption, and metabolism of 1-¹⁴C-dienoic hydroxy fatty acid in the rat.
- Reeves, Philip G. (R. M. Forbes, Adviser), The relationships of L-thyroxine, parathyroid hormone and vitamin D to renal calcification of magnesium deficient rats.
- Yeh, Yu-Yan (G. A. Leveille, Adviser), Hepatic fatty acid synthesis and its regulation in the growing chick.

PHILOSOPHY

CATON, CHARLES E., Professor

Reviews

- The labyrinth of language, by Max Black. *Philosophical Quarterly*, 20, 79:186-87.

CHANDLER, HUGH S., Associate Professor

Articles

- Defending continuants. *Nous*, 4, 3:279-83.

FISCH, MAX H., Professor Emeritus

Articles

- Dewey's critical and historical studies. In *Guide to the works of John Dewey*, ed. by J. A. Boydston, Southern Illinois University Press, Carbondale, pp. 306-38.
- L'Accademia degli investiganti. *De Homine*, 6, 27-28:17-78.

GOTSHALK, DILMAN W., Professor

Emeritus

Articles

- Creativity. In *Aesthetic concepts and education*, ed. by Ralph A. Smith, University of Illinois Press, Urbana, pp. 286-302.
- Preface. In *Studies in philosophy and in the history of science*, Coronado Press, Lawrence, Kansas, pp. i-ii.
- A note on the future of censorship. *Journal of Aesthetic Education*, 4, 3:97-100.

ROBISON, ANDREW C., Instructor

Articles

- The *Vedute di Roma* of Giovanni Battista Piranesi: notes towards a revision of Hind's catalogue. *Nouvelles de l'Estampe*, 1970, 4:180-98.
- Giovanni Battista Piranesi: prolegomena to the Princeton collections. *The Princeton University Library Chronicle*, 31, 3:165-206.

SCHACHT, RICHARD L., Assistant Professor

Books

- Alienation. Doubleday and Co., New York, 286 pp.

SHWAYDER, DAVID S., Professor

Articles

- Topics on the bordergrounds of action. *Inquiry*, 13, 2:32-53.

STALNAKER, ROBERT C., Associate

Professor

Articles

- Probability and conditionals. *Philosophy of Science*, 37, 1:64-80.
- With R. H. Thomason
A semantic analysis of conditional logic. *Theoria*, 36, Part I:23-42.

TURQUETTE, ATWELL R., Professor

Articles

- Peirce's complete systems of triadic logic. *Transactions of the Charles S. Peirce Society*, 5, 4:199-210.

WILL, FREDERICK L., Professor

Articles

- Thoughts and things. *Proceedings and Addresses of the American Philosophical Association*, 42:51-69.

DOCTORAL DISSERTATIONS

- Eggerman, Richard W. (J. D. Wallace, Adviser) The generalization principle in ethics.
- Lilje, Gerald W. (C. E. Caton, Adviser), Katz-Fodor semantics and problems in the philosophy of language.
- Lynes, John W., Jr. (A. Donagan, Adviser), Descartes, Hintikka, and the *Cogito*.
- Miller, Richard W. (M. H. Fisch, Adviser), Charles S. Peirce's theory of probability.
- Root, Michael D. (C. E. Caton, Adviser), The implications of recent developments in linguistics for the doctrine of innate ideas.

PHYSICAL EDUCATION FOR MEN

EILBRACHT, LEE P., Assistant Professor

Bulletins and Technical Reports

- A.A.C.B.C. clinic notes. American Association of College Baseball Coaches, Champaign, Illinois, 75 pp.

FALLON, DENNIS J., Assistant Professor

Books

- With S. R. Norman
Introducing ballroom dancing. Stipes Publishing Company, Champaign, 93 pp.

HUBBARD, ALFRED W., Professor

Articles

- With M. J. Ellis
Serial analyses of variance on repeated measures. In *Contemporary psychology of sport*, ed. by Gerald S. Kenyon, The Athletic Institute, Chicago, pp. 815-25.

JOHNSON, WILLIAM, Associate Professor

Books Edited

- Physical education around the world. Monograph no. 4, Phi Epsilon Kappa Fraternity, Indianapolis, Indiana, 70 pp.

Articles

- An introduction to research methodology applicable to the study of international-comparative physical education and sport. *Proceedings of the National College Physical Education Association for Men*, 74:27-30.

Introduction to the working session recommendations for implementation. *Proceedings of a National Conference on International Relations through Health, Physical Education, and Recreation*, 4:7.

With C. L. Vendien, A. A. Kidds

References for comparative physical education and sport. *Gymnasium — International Council on Health, Physical Education, and Recreation*, 7, 1:21-22.

KELLER, ROY J., Associate Professor

Articles

Planning collegiate tennis facilities. *Athletic Journal*, 50, 7:3.

KRIZAN, THOMAS F., Assistant Professor

Books

Lifeguard manual (rev. ed.). College of Physical Education, University of Illinois, Urbana, 46 pp.

Articles

Selected bibliography for beach and pool design, planning, construction, operation and management. *Illinois Journal*, 3, Fall:13.

The swinger. *Ibid.*, p. 14.

A new safety device. *Journal of Health, Physical Education, and Recreation*, 5, 2:13.

New safety ball buoy. *Illinois Park and Recreation*, 5, 2:13.

LOHMAN, TIMOTHY G., Assistant Professor
See Animal Science.

LUESCHEN, GUENTHER, Associate Professor
See Sociology.

MASSEY, BENJAMIN H., Professor

Articles

Measurement in perspective. In *An introduction to measurement in physical education*, ed. by Henry J. Montoye, Phi Epsilon Kappa Fraternity, Indianapolis, Indiana, pp. 1-20.

Measurement: historical review. *Ibid.*, pp. 21-23.

RAZOR, JACK E., Associate Professor

Articles

Hosts for athletic contests. *The Clearing House*, 45, 5:305-8.

The task of officiating. *Coach and Athlete*, 33, 6:18-19, 38.

Athletics and campus turmoil. *Illinois Journal of Health, Physical Education, and Recreation*, 3:7.

Growth through exchange — everyone benefits. *New Zealand Journal of Health, Physical Education, and Recreation*, 3, 2:4-9.

Research and the practitioner — a cooperative venture. *The Physical Educator*, 27, 3:129-30.

With R. L. Case, H. Deutsch, F. Grebner

Secondary physical education . . . implications for the university. *Illinois Journal of Health, Physical Education, and Recreation*, 2:10-12.

TREKELL, MARIANNA, Associate Professor

Bulletins and Technical Reports

With H. Deutsch, J. Noak

Physical education in Illinois, a research monograph. Office of the Superintendent of Public Instruction, Springfield, Illinois, 68 pp.

ZEIGLER, EARLE F., Professor

Articles

The rationale for philosophical analysis (with implications for physical education and sport). *Illinois Journal of Health, Physical Education, and Recreation*, 1:17-18.

A philosophy for the private agency. *Journal of Physical Education*, 67, 3:67-71.

Introduction to the history of physical education and sport. *Canadian Journal of History of Sport and Physical Education*, 1, 1:4-7.

An analysis of an approach to teaching: Mosston's spectrum of styles. *The Australian Journal of Physical Education*, 48:20-30.

A brief descriptive history of graduate study in physical education in the United States to 1950. In *Proceedings of the National College Physical Education Association for Men*, Minneapolis, Minnesota, p. 67.

Foreword. In *Physical education around the world*, Monograph no. 4, ed. by William Johnson, Phi Epsilon Kappa Fraternity, Indianapolis, Indiana, pp. ix-x.

Reviews

Sport, a philosophic inquiry, by Paul Weiss. *The Educational Forum*, 34, 3:429-30.

DOCTORAL DISSERTATIONS

Bole, Ronald E. (E. F. Zeigler, Adviser), An economic analysis of the factors influencing football attendance at the University of Illinois, 1926-1968.

Bratton, Robert D. (G. Lüschen, Adviser), Consensus on the relative importance of association goals and personal motives among executive members of two Canadian sports associations.

Craig, Timothy T. (A. W. Hubbard, Adviser), Temporal delay of motor information feedback.

Dannehl, Wayne E. (E. F. Zeigler, Adviser), The organizational climate in physical education administration units in selected Mid-Western Universities.

Donoho, Lora H. (R. H. Pohndorf, Adviser), Effects of training upon serum creatine phosphokinase and other physical fitness measures of adult men.

Gahan, Lawrence W. (A. V. Sapora and E. H. Storey, Advisers), An analysis of factors affecting water-oriented recreation consumer patterns in the east-central Illinois region.

Glassford, Robert G. (E. F. Zeigler, Adviser), Application of a theory of games to the transitional Eskimo culture.

Greenberg, Alan D. (E. F. Zeigler, Adviser), A comparison of problems confronting male high school physical education teachers in an inner-city and in a suburban area.

Hartsoe, Charles E. (A. V. Sapora, Adviser), The contributions of Charles K. Brightbill to the recreation movement.

Hottinger, William L. (L. J. Huelster, Adviser), Improvement of climbing ability in kindergarten children.

Laoye, Joseph A. (W. H. Creswell, Jr., Adviser), Concomitant changes in youth smoking behavior.

Liu, Nora Y. S. (T. K. Cureton, Adviser), Effects of training on some selected physical fitness variables of middle-aged women.

Luck, Emory F. (E. F. Zeigler, Adviser), An analysis of employment theory and practice in physical education in the Big Ten universities.

McKelvey, Gregg M. (G. Lüschen and E. F. Zeigler, Advisers), Achievement orientation and its influence on the system of the school class.

Meinhardt, Thomas O. (E. F. Zeigler and D. O. Matthews, Advisers), An evaluation of the student-teaching experience in athletic coaching for male undergraduate physical education majors in Illinois.

Milesis, Chris A. (R. H. Pohndorf, Adviser), The effects of physical training on the serum lipids of middle-aged men.

Molnar, Sandor (T. K. Cureton, Adviser), The relationship between cardiac time components, maximal oxygen consumption and endurance performance.

O'Rourke, Thomas W. (W. H. Creswell, Adviser), A prospective epidemiological study of youth smoking.

Parker, Nancy K. (L. J. Huelster, Adviser), Influence of induced muscular tension on a time estimation motor task.

Paton, Garth A. (E. F. Zeigler, Adviser), An analysis of administrative theory in selected graduate administration courses in physical education.

Plowman, Sharon A. (T. K. Cureton, Adviser), A comparison of Cureton's low and middle gear training program and Cooper's aerobics in young adult women.

Tooshi, Ali (T. K. Cureton, Adviser), Effect of three different durations of endurance training on serum cholesterol, body composition, and other fitness measures.

Wade, Michael G. (A. W. Hubbard, Adviser), Biorhythms in children during free play.

White, Cyril M. D. (E. F. Zeigler, Adviser), An analysis of hostile outbursts in spectator sports.

Williams, Ian D. (A. W. Hubbard, Adviser), The effects of practice-trials and prior learning on motor memory.

PHYSICAL EDUCATION FOR WOMEN

DEUTSCH, HELGA M., Assistant Professor

Articles

With R. F. Case, F. D. Grebner, J. E. Razor
Secondary physical education—implications for the university. *Illinois Journal of Health, Physical Education and Recreation*, 2, Spring:10-12.

Bulletins and Technical Reports

With M. Trekell, J. Noak

Physical education in Illinois, a research monograph, 1970. Office of the Superintendent of Public Instruction, Springfield, Illinois, 62 pp.

GREBNER, FLORENCE D., Instructor

Articles

Soccer. In *Physical education for high school students* (second ed.), American Association for Health, Physical Education and Recreation, National Education Association, Washington, D.C., pp. 190-203.

Teaching motor skills to students who possess handedness opposite that of the instructor. *Illinois School Research*, 6, 3:37-41.

HUELSTER, LAURA J., Professor

Articles

Coping with personal and professional pressures associated with change. *Workshop*,

National Association of Physical Education for College Women, Washington, D.C., pp. 56-62.

PETTIT, ANNE, Assistant Professor

Articles

Physical education and reading readiness. *Journal of the Association for the Study of Perception*, Spring:20-21.

Bulletins and Technical Reports

With R. Jacobson, D. L. Isaacs

Using audiovisual instruction devices in the women's physical education department at the University of Illinois, Urbana campus. Office of Instructional Resources, University of Illinois, Urbana, 99 pp.

PHYSICS

ADLER, DONATELLA B., Research Assistant Professor

Articles

With F. T. Adler

Correlated analysis of fission-element cross-sections and interpretation in terms of R-matrix parameters. In *Proceedings of the second international conference on nuclear data for reactors, Helsinki, June 15-19, vol. 2*, pp. 777-88.

ADLER, FELIX T., Professor

Articles

With D. B. Adler

Correlated analysis of fission-element cross-sections and interpretation in terms of R-matrix parameters. In *Proceedings of the second international conference on nuclear data for reactors, Helsinki, June 15-19, 1970, vol. 2*, pp. 777-88.

Bulletins and Technical Reports

Hydraulic effects in circulating fuel reactors. Los Alamos Scientific Laboratory, LA-4294, pp. 1-31.

ALLEN, JAMES S., Professor

Articles

With P. Axel, A. O. Hanson, J. R. Harlan, R. A. Hoffswell, and others

Design of a 600 MeV microtron using a superconducting linac. *Particle Accelerators*, 1:239-45.

ALTEROVITZ, SAMUEL A., Research Associate

Articles

With S. Elkin, D. Gerlich

Third order elastic moduli of cubic crystals. *Journal of the Acoustical Society of America*, 47:937.

With D. Gerlich

Thermoelastic properties of cadmium fluoride. *Physical Review*, B1:4136.

Third order elastic moduli of strontium fluoride. *Ibid.*, p. 2718.

ANDERSON, ANSEL C., Professor

Articles

Adapting standard vacuum flanges to low temperatures. *Review of Scientific Instruments*, 41:469.

Elementary dilution refrigeration. *Ibid.*, pp. 1446-50.

A low temperature sealant. *Ibid.*, p. 1889.

Practical consideration of He³-He⁴ refrigera-

tors. In *Proceedings of the symposium on the production and use of ultra low temperatures*, pp. 82-89.

With J. E. Robichaux

Thermal conductivity of double-nitrate crystals below 1°K. *Physical Review*, B2:5035-42.

With R. B. Rauch, M. M. Kreitman

Another comparison of thermal bonding agents. *Review of Scientific Instruments*, 41:469-70.

With M. K. Malinowski

The thermal conductivity of holmium below 1° K. *Physica Status Solidi*, 37:K141-K143.

With R. B. Rauch

Low temperature thermal conductivity of a suspension of copper particles. *Journal of Applied Physics*, 41:3648-51.

With R. E. Peterson, J. E. Robichaux

Magnetic thermometry. *Review of Scientific Instruments*, 41:528-32.

With R. E. Peterson

Selection of a thermal bonding agent for temperatures below 1° K. *Cryogenics*, 10:430-33.

ASCOLI, GIULIO, Professor

Articles

The g-meson. *Nuclear Physics*, B22:109.

With D. B. Brockway, H. B. Crawley,

L. B. Eisenstein, R. W. Hanft, and others
Partial wave analysis of the 3π decay of the A_2 . *Physical Review Letters*, 25:962-65.

AXEL, PETER, Professor

Articles

With K. K. Min, D. C. Sutton

Intermediate structure in the photon interaction cross sections of Sn and Zr. *Physical Review*, C2:689-711.

With J. S. Allen, A. O. Hanson, J. R. Harlan
R. A. Hoffswell, and others

Design of a 600 MeV microtron using a superconducting linac. *Particle Accelerators*, 1:239-45.

BALDERESCHI, ALFONSO, Research

Associate

Articles

Valley-orbit interaction in semiconductors. *Physical Review*, B1:4673-77.

With M. G. Diaz

Anisotropy of excitons in semiconductors. *Nuovo Cimento*, 68B:217.

With N. O. Lipari

Direct exciton spectrum in diamond and zincblende semiconductors. *Physical Review Letters*, 25:373-76.

Angular momentum theory and localized states in solids. Investigation of shallow acceptor states in semiconductors. *Ibid.*, pp. 1660-64.

BALZER, HANS, Research Associate

Articles

Volumenaenderung von alkalihalogenidkristallen bei der bildung von gitterdefekten durch niederenergetische strahlung. *Zeitschrift für Physik*, 234:242.

BAYM, GORDON A., Professor

Books

Lectures on quantum mechanics. W. A. Benjamin, New York, 554 pp.

Articles

With B. M. Abraham, C. G. Brandt,

Y. Eckstein, J. Munarin
The relative molar volume and limiting solubility of ^3He . *Physical Review*, 188:309-14.

With C. Pethick, D. Pines, P. Sutherland

Can pulsar masses be determined? *Nature*, 225:353-54.

BROWN, FREDERICK C., Professor

Articles

Electronic properties of the alkali, silver and thallium halides. *Radiation Effects*, 4:223-32.

With R. Z. Bachrach

Exciton optical properties of TlCl and TlBr. *Physical Review*, B1:818-31.

With S. B. Bolte

Two quantum photoconductivity in the alkali halides. *Journal of the Physics and Chemistry of Solids*, Supplement 31:143-49.

With C. Gahwiler

Photoabsorption near the LiI, III edge of silicon and aluminum. *Physical Review*, B2:1918-25.

With C. Gahwiler, H. Fujita

Extreme ultraviolet spectroscopy with the use of a storage ring light source. *Review of Scientific Instruments*, 41:1275-81.

With C. Gahwiler, H. Fujita, A. B. Kunz,

W. Scheifley, N. Carrera
Extreme-ultraviolet spectra of ionic crystals. *Physical Review*, B2:2126-38.

With C. Gahwiler, A. B. Kunz, N. O. Lipari

Soft x-ray spectra of the lithium halides and their interpretation. *Physical Review Letters*, 25:927-30.

With M. Elango, C. Gahwiler

Coloration of KCl and KBr crystals by far ultraviolet radiation. *Solid State Communications*, 8:893-96.

With C. Gahwiler, H. Fujita, N. Carrera,

W. Scheifley
Optical properties of solids in the very far ultraviolet. In *Proceedings of the 10th European congress on spectroscopy*, Liege, Belgium, December 1970; published in *les Memoires de la Société Royale des Sciences de Liège*, pp. 1-10.

With J. W. Hodby, J. A. Borders

Conduction band symmetry and spin dependent polaron transport in the alkali halides. *Journal of Physics C*, 3:335-51.

CHANG, SHAU-JIN, Assistant Professor

Articles

Radiative corrections to the $e^- e^+$ scattering amplitude at infinite energy. *Physical Review*, D1:2977-79.

Field theory realization of the droplet model. *Ibid.*, D2:2886-98.

With P. M. Fishbane

High-energy ep inelastic scattering in a renormalizable theory. *Physical Review Letters*, 24:847-50.

Scattering amplitudes in quantum electrodynamics at infinite energy and possible implications for hadron physics. *Physical Review*, D2:1104-22.

Model for $e^- e^+$ annihilation at high energy. *Ibid.*, D2:1173-78.

High-energy deep-inelastic electron-nucleon scattering in a renormalizable theory. *Ibid.*, D2:1084-1103.

With T. M. Yan

Predictions for high energy elastic and inelastic scattering in Q^3 theory. *Physical Review Letters*, 25:1586-90.

CLEARY, ROBERT M., Research Associate

Articles

Bardeen-Kummel-Jacobs-Tewordt theory of a vortex near Te. *Physical Review*, B1:1039-43.

The Hall angle of a normal current flowing through the core of a vortex. *Ibid.*, pp. 4686-92.

The characteristic lengths λ and ξ of BCS theory. *Physical Review Letters*, 24:940-41.

Healing length of the superconducting order parameter. *Ibid.*, pp. 3577-79.

Model of a clean superconductor containing a random array of vortices. *Ibid.*, p. 169.

COOPER, DUANE H., Research Associate
Professor

See Electrical Engineering.

DEBRUNNER, PETER, Associate Professor

Articles

With J. L. Groves, G. DePasquali
Isomer shifts of the 145 keV transition in $^{141}_{59}\text{Pr}$. *Physics Letters*, 33A:51-52.

With M. Pasternak, G. DePasquali, L. Yeoman, H. P. Hager

Application of ^{129}I Mossbauer effect to biological systems: studies with heme models. *Proceedings of the National Academy of Sciences*, 66:1142-49.

DEPASQUALI, GIOVANNI, Research
Assistant Professor

Articles

With J. L. Groves, P. Debrunner
Isomer shifts of the 145-keV transition in $^{141}_{59}\text{Pr}$. *Physics Letters*, 33A:51-52.

With M. Avinor

Synthesis of manganese diselenide. *Journal of Inorganic and Nuclear Chemistry*, 32:3959.

Synthesis of manganese disulfide. *Ibid.*, pp. 3403-4.

With H. G. Drickamer, C. W. Frank

The effect of pressure on the isomer shift of Fe^{57} (Co^{57}) as an impurity in ZnSe, ZnTe, and CdTe. *Journal of Physics and Chemistry of Solids*, 30:2321-22.

With M. Pasternak, P. G. Debrunner, L. P. Hager, L. Yeoman

Application of ^{129}I Mossbauer effect to biological systems: studies with heme models. *Proceedings of the National Academy of Science*, 66:1142-49.

DUKE, CHARLES B., Professor

Articles

Tunneling in semiconductors. *Journal of Vacuum Science Technology*, 7:22.

With J. R. Anderson, C. W. Tucker, Jr.

The inelastic collision model II: second order perturbation theory. *Surface Science*, 19:117.

With N. Holonyak, D. L. Keune, R. D. Burnham

Photosensitive impurity assisted tunneling (Au, 77°K) in GaAs tunnel diodes. *Physical Review Letters*, 24:589-91.

With G. E. Laramore, V. Metzger

Sideband diffraction, a prediction of the quantum field theory of inelastic low-energy electron diffraction from solids. *Solid State Communications*, 8:1189-93.

With G. G. Kleiman

Collective excitation spectroscopy in supercon-

ductor-semiconductor tunnel junctions. *Physical Review*, B2:1270-82.

With C. W. Tucker, Jr.

Determination of surface structures from low-energy electron diffraction measurements. *Surface Science*, 23:411.

With G. E. Laramore

The effect of lattice vibrations in a multiple-scattering description of low energy electron diffraction, I: formal perturbation theory. *Physical Review*, B2:4765-82.

The effect of lattice vibrations in a multiple-scattering description of low-energy electron diffraction, II: double-diffraction analysis of the elastic scattering cross sections. *Ibid.*, pp. 4783-95.

With G. G. Kleiman, A. M. Andrews, R. D. Burnham, N. Holonyak, H. W. Korb

Tunneling mechanics, trap states, and zero bias effects in III-V tunnel diodes. In *Proceedings of the 10th international conference on the physics of semiconductors*, AEC publication CONF-700801, USAEC Division of Technical Information, Oak Ridge, Tennessee, pp. 856.

EISENSTEIN, BOB I., Associate Professor

Articles

Fake-grind studies of 50 GeV 4-prong pion induced interactions in the 25-foot bubble chamber. In *1969 summer study*, National Accelerator Laboratory, Batavia, Illinois, vol. 2, pp. 69-81.

With H. Gordon

Features of the reaction $\pi^+d \rightarrow \pi^+ d\pi^+ \pi^-$ at 4.2 GeV/c. *Physical Review*, D1:841-46.

EISENSTEIN, LAURA, Research Associate

Articles

With G. S. Abrams, J. Kim, D. Marshall, T. A. O'Halloran, Jr., and others

Reaction $\text{K}^+\text{p} \rightarrow \text{K}^+\text{p} \pi^+\pi^-$ at 2.53, 2.76 and 3.20 GeV/c. *Physical Review*, D1:2433-48.

With G. Ascoli, D. V. Brockway,

H. B. Crawley, R. W. Hanft, and others
Partial wave analysis of the 3π decay of the Λ_z . *Physical Review Letters*, 25:962-65.

FEIBELMAN, PETER J., Research Assistant
Professor

Articles

Particle-surface wave coupling in a He^3 film. *Physical Review*, A1:347-53.

FEIT, MICHAEL D., Research Associate

Articles

With H. B. Huntington

Structure factor approach to energies of migration. In *Calculation of properties of vacancies and interstitials*, ed. by A. D. Franklin, National Bureau of Standards publication 287, pp. 99-101.

With H. B. Huntington, D. Lorts

Dynamic studies of vacancy motion. *Crystal Lattice Defects*, 1:193.

FISHBANE, PAUL M., Research Assistant
Professor

Articles

Electron self-energy and the Compton amplitudes. *Physical Review*, D1:1166-71.

With S. J. Chang

A model for e^-e^+ annihilation at high energy. *Ibid.*, D2:1173-78.

Scattering amplitudes in quantum electrodynamics at infinite energy and possible impli-

- cations for hadron physics. *Ibid.*, D2:1104-22.
- High-energy deep-inelastic electron-nucleon scattering in a renormalizable theory. *Ibid.*, pp. 1084-1103.
- High-energy ep inelastic scattering in a renormalizable theory. *Physical Review Letters*, 24:847-50.
- FLYNN, COLIN P.**, Professor
- Articles
 With A. M. Stoncham
 Quantum theory of diffusion with applications to the diffusion of light interstitials in metals. *Physical Review B1*:3966-78.
- FRAUENFELDER, HANS**, Professor
- Articles
 With U. E. Kruse, R. D. Sard
 Comments on the letter, "Evidence of quarks in air-shower cores." *Physical Review Letters*, 24:33-35.
- GAHWILLER, CHRISTIAN**, Research Associate
- Articles
 With F. C. Brown
 Photoabsorption near the $L_{II,III}$ edge of silicon and aluminum. *Physical Review*, B2: 1918-25.
- With F. C. Brown, H. Fujita
 Extreme ultraviolet spectroscopy with the use of a storage ring light source. *Review Scientific Instruments*, 41:1275-81.
- With F. C. Brown, H. Fujita, A. Kunz, W. Scheifly, N. Carrera
 Extreme-ultraviolet spectra of ionic crystals. *Physical Review*, B2:2126-38.
- With F. C. Brown, A. B. Kunz, N. O. Lipari
 Soft x-ray spectra of the lithium halides and their interpretation. *Physical Review Letters*, 25:927-30.
- With M. Elango, F. C. Brown
 Coloration of KCl and KBr crystals by far ultraviolet radiation. *Solid State Communications* 8:893-96.
- GINSBERG, DONALD M.**, Professor
- Articles
 Resource letter Scy-2 on superconductivity. *American Journal of Physics*, 38:949-55.
- Magnetic susceptibilities of some materials which may be used in cryogenic apparatus. *Review of Scientific Instruments*, 41:1661-62.
- With M. J. Melchner
 Optimum geometry of saddle shaped coils for generating a uniform magnetic field. *Review of Scientific Instruments*, 41:122-23.
- GOLDWASSER, EDWIN L.**, Professor
- Articles
 With P. F. Schultz
 Ξ^- production in 5.5-GeV/c K-p interactions. *Physical Review*, D1:1960-66.
- GORDON, H. A.**, Research Associate
- Articles
 With J. R. Ficenec, W. P. Trower
 Resonance production in $Y\pi\pi$ final states of K-p interactions at 1.33 GeV/c. *Il Nuovo Cimento Series X*, 61A:353-68.
- With B. Eisenstein
 Features of the reaction $\pi^+d \rightarrow \pi^+ d\pi^+ \pi^-$ at 4.2 GeV/c. *Physical Review*, 1:841-46.
- GORMLEY, MICHAEL R.**, Research Assistant Professor
- Articles
 With E. Hyman, W. Lee, T. Nash, J. Peoples, and others
 Experimental determination of the Dalitz Plot distribution of the decays $n \rightarrow \pi^+\pi^-\pi^0$ and $n \rightarrow \pi^+\pi^-\gamma$, and the branching ratio $n \rightarrow \pi^+\pi^-\gamma/n \rightarrow \pi^+\pi^-\pi^0$. *Physical Review*, D2: 501.
- GRANATO, ANDREW V.**, Professor
- Articles
 With J. A. Garber
 Reradiation and viscous dislocation damping. *Journal of Physics and Chemistry of Solids*, 31:1863-67.
- Dislocation resonance. In *Fundamental aspects of dislocation theory*, ed. by Simmons, deWit and Bullough, National Bureau of Standards, Special Publication 317, Washington, D.C., vol. 1, pp. 419-22.
- With W. S. DeRosset
 Ultrasonic study of creep in sodium chloride. *Journal of Applied Physics*, 41:4105-17.
- Strain rates in dislocation dynamics. In *Fundamental aspects of dislocation theory*, ed. by Simmons, deWit and Bullough, National Bureau of Standards Special Publication 317, Washington, D.C., vol. 1, pp. 419-22.
- With J. Holder
 Thermal expansion of solids regarding phonons as defects. *Journal of Applied Physics*, 41:5152-54.
- Thermodynamic properties of solids containing dislocations. In *Fundamental aspects of dislocation theory*, ed. by Simmons, deWit and Bullough, National Bureau of Standards Special Publication 317, Washington, D.C., vol. 1, pp. 419-22.
- With R. O. Schwenker
 Dislocation radiation. *Ibid.*, vol. 1, pp. 423-26.
- The frequency dependence of sound radiation from mobile dislocation walls. *Journal of Physics and Chemistry of Solids*, 31:1869-75.
- GUTMAN, EDWARD J.**, Research Associate
- Articles
 M. Fellingner, R. C. Lamb, F. C. Peterson, G. S. Schroeder, and others
 Measurements of $\pi^+\pi$ elastic scattering from 1.71 to 5.53 GeV/c. *Physical Review*, D2: 1777.
- HANDLER, PAUL**, Professor
- Articles
 With S. Jaspersen, S. Koeppen
 Evidence for the L-point nature of the 2.1-2.3 eV transitions in germanium. In *International conference on physics of semiconductors*, U.S. Atomic Energy Commission Division of Technical Information, pp. 432-38.
- HANSEN, J. D.**, Research Assistant Professor
- Articles
 With others
 Comparison of $\pi^+\pi$ and K-p reactions with a multiperipheral model using the Van Hove hexagon and cuboctahedrons plots. *Nuclear Physics*, B19:381-98.
- $\pi\pi$ scattering effects in $\pi^+\pi$ interactions at 8 GeV/c. *Ibid.*, B22:1.
- The g-meson. *Ibid.*, p. 109.
- Evidence that the L-meson has decay modes other than $K^*(1420)\pi$. *Physics Letters*, 33B:186-88.

- A study of the reaction $K^-p \rightarrow pK^0\pi^-$ with the Veneziano model. *Nuclear Physics*, B20: 63-76.
- Application of the Veneziano model with pion and pomeron exchange to the reaction $K^-p \rightarrow nK^-\pi^+$ at 10 GeV/c. *Ibid.*, B23:1-18.
- Density matrix elements and Donohue-Hogasen parameters of resonances produced in π^+p and γp reactions. *Ibid.*, B24:509-26.
- A dual diffractive model for the Q and L mesons. *Ibid.*, B24:221-30.
- Bulletins and Technical Reports**
- With others*
- Compilation of cross sections, I: Proton induced reactions. CERN-HERA, pp. 70-72.
- Compilation of cross sections, II: Antiproton induced reactions. *Ibid.*, pp. 70-73.
- Compilation of cross section, III: K^+ induced reactions. *Ibid.*, pp. 70-74.
- Compilation of cross sections IV- π^+ induced reactions. *Ibid.*, pp. 70-75.
- HANSON, ALFRED O., Professor**
- Articles**
- With J. S. Allen, P. Axel, J. R. Harlan, R. A. Hoffswell, and others*
- Design of a 600 MeV microtron using a superconducting linac. *Particle Accelerators*, 1: 239-45.
- HOLDER, J. T., Research Associate**
- Articles**
- Improvements on pulse superposition velocity measurements. *Review of Scientific Instruments*, 41:1355-56.
- With A. V. Granato*
- Thermodynamic properties of solids containing dislocations. In *Fundamental aspects of dislocation theory*, ed. by Simmons, deWit, and Bullough, National Bureau of Standards, Special Publication 317, Washington, D.C., vol. 1, pp. 419-22.
- Thermal expansion of solids regarding phonons as defects. *Journal of Applied Physics*, 41:5152-54.
- HUMMEL, JOHN P., Professor**
- With W. B. Walters, J. R. Van Hise, W. L. Switzer*
- Photonuclear reactions above the giant resonance: ratios of $(\gamma, 2n)$ to (γ, pn) yields in ^{50}Cr , ^{54}Fe , ^{89}Y and ^{92}Mo . *Nuclear Physics*, A157:73-80.
- ICHIMARU, SETSUO, Associate Professor**
- Articles**
- Dielectric response function of electron liquids. *Physical Review*, A2:494-97.
- With S. H. Starr*
- Electromagnetic radiation from anisotropic turbulent plasma. *Ibid.*, pp. 821-25.
- Plasma turbulence as a mechanism of pulsar radiation. *Nature*, 226:731-33.
- With M. N. Rosenbluth*
- Relaxation processes in plasmas with magnetic field. Temperature relaxation. *The Physics of Fluids*, 13:2778-89.
- Theory of strong turbulence in plasmas. *Ibid.*, pp. 1560-72.
- IOFFREDO, MICHAEL L., Research Associate**
- Articles**
- With G. Ascoli, D. V. Brockway, H. B. Crawley, L. B. Eisenstein, and others*
- Partial wave analysis of the 3π decay of the Λ . *Physical Review Letters*, 25:962.
- With G. W. Brandenburg and others*
- The reaction $\pi^-p \rightarrow p\pi^+\pi^-\pi^-$ at 13 and 20 GeV/c. *Nuclear Physics*, B16:287.
- The double Regge pole model for the reaction $\pi^-p \rightarrow p\pi^+\pi^-\pi^-$ at 13 and 20 GeV/c. *Ibid.*, p. 369.
- Application of a multi-regge model to the reaction $\pi^-p \rightarrow p\pi^+\pi^-\pi^-$ at 13 and 20 GeV/c. *Ibid.*, B22:157.
- JACKSON, EDWIN A., Associate Professor**
- Articles**
- With K. Evans, Jr.*
- Instabilities in a finite beam-plasma system. *Physics of Fluids*, 13:1885.
- JASPERSON, S. N., Research Associate**
- Articles**
- With P. Handler, S. Koepfen*
- Evidence for the L-point nature of the 2.1-2.3 eV transitions in germanium. In *International conference on physics of semiconductors*, U.S. Atomic Energy Commission Division of Technical Information, pp. 432-38.
- JONES, LORELLA M., Associate Professor**
- Articles**
- With H. W. Wyl*
- Properties of the Veneziano five point function in the Regge region. *Physical Review*, D1:1840-42.
- KIM, J., Research Associate**
- Articles**
- With G. S. Abrams, L. Eisenstein, D. Marshall, T. A. O'Halloran, Jr., and others*
- Reaction $K^+p \rightarrow K^+\pi^+\pi^-p$ at 2.53, 2.76 and 3.20 GeV/c. *Physical Review*, D1:2433-48.
- KIRBY, ROGER D., Research Associate**
- Articles**
- With A. E. Hughes, A. J. Sievers*
- Far infrared properties of lattice resonant modes, IV: Paraelectric impurities. *Physical Review*, B2:481.
- With A. J. Sievers*
- Evidence for a central instability in KBr:Li^+ . *Physics Letters*, 33A:405.
- KLEIN, MILES V., Professor**
- Books**
- Optics. John Wiley and Sons, New York, 647 pp.
- Articles**
- With C. K. Chau*
- Phonon scattering from substitutional impurities and lattice defects in silver chloride. *Physical Review*, B1:2642-60.
- With P. J. Colwell, W. D. Compton, L. B. Schein*
- Localized phonon gap mode in nitrogen doped silicon carbide. In *Proceedings of the 10th international conference of the physics of semiconductors*, Cambridge, Massachusetts, N.B.S., U.S. Dept. of Commerce, Springfield, Virginia, pp. 484-85.
- KOEHLER, JAMES S., Professor**
- Articles**
- An attempt to design a strong solid. *Physical Review*, B2:547-51.
- With L. S. Edelheit, J. C. North, J. C. Ring, F. W. Young, Jr.*
- Effect of point defects in copper on the anomalous transmission of x-rays. *Ibid.*, pp. 2913-23.

With P. S. Gwozdz

A simple ion source for implantation doping of semiconductors. *Review of Scientific Instruments*, 41:1677-78.

KOESTER, LOUIS J., Professor

Articles

Operating characteristics and applications of multiwire proportional counters. *IEEE Transactions on Nuclear Science NS-17*, 3: 55-59.

With U. Koetz, S. Segler

Measurements of efficiency and time resolution of multiwire proportional counters. *Nuclear Instruments and Methods*, 82:67-71.

KOETZ, ULRICH, Research Associate

Articles

With L. J. Koester, S. Segler

Measurements of efficiency and time resolution of multiwire proportional counters. *Nuclear Instruments and Methods*, 82:67-71.

KOHLSTEDT, DAVID L., Research Associate

Articles

With W. S. Williams, J. B. Woodhouse

Chemical diffusion in titanium carbide crystals. *Journal of Applied Physics*, 41:4476-84.

KRUSE, ULRICH, Professor

Articles

With H. Frauenfelder, R. D. Sard

Comments on the letter "Evidence of quarks in air-shower cores." *Physical Review Letters*, 24:33-35.

With G. Ascoli, D. V. Brokway, H. B. Crawley, L. B. Eisenstein, and others

Partial wave analysis of the 3π decay of the A_2 . *Physical Review Letters*, 25:962-65.

KUNZ, ALBERT B., Research Assistant

Professor

Articles

Energy bands and the optical properties of LiCl. *Physical Review*, B2:5015-24.

Hartree-Fock energy bands in LiCl. *Journal of Physics, C: Solid State Physics*, 3:1542-49.

Self-consistent local orbitals for lithium halide crystals. *Physical Review*, B2:2224-30.

Electron energy bands and the optical properties of KI and RbI. *Journal of Physics and Chemistry of Solids*, 31:265-74.

With F. C. Brown, C. Gahwiller, H. Fujita, W. Scheifley, N. Carrera

Extreme-ultraviolet spectra of ionic crystals. *Physical Review*, B2:2126-38.

With F. C. Brown, C. Gahwiller, N. O. Lipari

Soft x-ray spectra of the lithium halides and their interpretation. *Physical Review Letters*, 25:927-30.

With W. B. Fowler

ENDOR, the F-center ground state, and conduction bands in alkali halide crystals. *Physica Status Solidi*, 40:249-55.

LAMB, FREDERICK K., Instructor

Articles

Line formation in magnetic fields. Comments on the role of atomic level polarization. *Solar Physics*, 12:186-201.

LANG, DAVID V., Research Assistant
Professor

Articles

With P. R. Moran

Rotating frame double resonance and nuclear cross relaxation in LiF. *Physical Review*, B1:53-62.

Spin-diffusion limitations for high-sensitivity NMR techniques. *Ibid.*, p. 2360.

LARAMORE, GEORGE, Research Associate

Articles

With C. B. Duke, V. Metzger

Sideband diffraction; a prediction of the quantum field theory of inelastic low-energy electron diffraction from solids. *Solid State Communications*, 8:1189-93.

With C. B. Duke

The effect of lattice vibrations in a multiple scattering description of low energy electron diffraction, I: Formal perturbation theory. *Physical Review*, B2:4765-83.

The effect of lattice vibrations in a multiple scattering description of low energy electron diffraction, II: Double-diffraction analysis of the elastic scattering cross section. *Ibid.*, pp. 4783-95.

LAZARUS, DAVID, Professor

Articles

With R. N. Jeffery

Calculating activation volumes and activation energies from diffusion measurements. *Journal of Applied Physics*, 41:3186-87.

With S. C. Fain

X-ray investigation of solid helium. *Ibid.*, pp. 1451-54.

Combined thermal conductivity and x-ray study of hexagonal-close-packed helium-4. *Physical Review*, 1A:1460-67.

With J. J. Burton

Divacancy motion energy in gold. *Applied Physics Letters*, 16:1321.

Annealing of quenched defects in gold. *Physical Review*, 2:787-98.

With M. Beyeler

Influence de la pression hydrostatique sur l'autodiffusion de l'aluminium et du beryllium. *Memoires Scientifiques Revue de Metallurgie*, 67, 6:395-400.

With M. Beyeler, Y. Adda

Contribution à la détermination des volumes d'activation d'autodiffusion des métaux divalents et trivalents. *Propriétés Physiques des Solides sous Pression*, Editions du C.N.R.S., Paris, 1970.

LIPARI, NUNZIO O., Research Associate

Articles

Dielectric function for insulating crystals. *Journal of Chemical Physics*, 53:1040-46.

Hartree-Fock energy bands for krypton. *Physica Status Solidi*, 4:691-99.

With A. Baldereschi

Direct exciton spectrum in diamond and zincblende semiconductors. *Physical Review Letters*, 25:373-76.

Angular momentum theory and localized states in solids. Investigation of shallow acceptor states in semiconductors. *Ibid.*, pp. 1660-64.

With F. C. Brown, C. Gahwiller, A. B. Kunz

Soft x-ray spectra of the lithium halides and their interpretation. *Ibid.*, pp. 927-30.

With W. B. Fowler

Correlation effects in the energy bands of insulating crystals. *Solid State Communications*, 8:1395-96.

MAPOTHER, DILLON E., Professor

Articles

With D. U. Gubser, D. L. Connelly

Superconductivity of dilute indium-thallium alloys. *Physical Review B2*:2547-55.

With G. Dummer

Density of states data from superconducting critical field measurements. In *Proceedings 3rd IMR symposium electronic density of states*, National Bureau Standards (U.S.) Special Publication 323.

MCCORMICK, BRUCE H., Professor

See Computer Science.

MOCHEL, JACK M., Associate Professor

Articles

With R. Ratnam

Third sound resonance. *Physical Review Letters*, 25:711-14.

Third sound resonance. *Journal of Low Temperature Physics*, 3:239-45.

MOLLER, H. S., Research Associate

Articles

Influence of pressure on magnetic field of Sn^{119} in Fe. *Solid State Communications*, 8: 527.

O'HALLORAN, THOMAS A., Professor

Articles

With G. S. Abrams, L. Eisenstein, J. Kim, D. Marshall, W. Shufeldt, J. Whitmore

Reaction $K^+p \rightarrow K^+\pi^+\pi^+p$ at 2.53, 2.76 and 3.20 GeV/c. *Physical Review*, 1:2433-48.

With G. S. Abrams, L. Eisenstein, J. Kim, W. Shufeldt, J. Whitmore

K^+p elastic scattering at 2.54, 2.76 and 3.20 GeV/c. In *Hyperon resonances-70*, ed. by E. C. Fowler, Moore Publishing Co., Durham, North Carolina, pp. 401-6.

PASTERNAK, MOSHE P., Research Assistant Professor

Articles

Transferred hyperfine interaction in Te and I impurities in ferromagnetic MnSb. *Physical Review Letters*, 31A:215-16.

Hyperfine interaction on 5s-p solutes in ferromagnetic gadolinium. *Ibid.*, 32A:449-50.

With P. G. Debrunner, G. DePasquali, L. P. Hager, L. Yeoman

Application of ^{229}I Mossbauer effect to biological systems: Studies with heme models. *Proceedings of the National Academy of Sciences*, 66:1142-49.

PEACOCK, ROY N., Associate Professor

See Coordinated Science Laboratory.

PETHICK, CHRISTOPHER J., Associate Professor

Articles

Finite-temperature corrections to the transport coefficients of a normal Fermi liquid. *Physical Review*, 177:391-400.

Electron-ion interactions and many-body effects in simple metals. *Physical Review*, 2: 1789-1801.

With K. S. Dy

Transport coefficients of a normal Fermi liquid: application to liquid He^3 . *Physical Review*, 185:373-84.

With G. Baym, D. Pines, P. Sutherland

Can pulsar masses be determined? *Nature*, 225:353-54.

PINES, DAVID, Professor

Articles

Extended electron-gas hamiltonian — an author's comment. *Physical Review*, 2:1424-25.

An introduction to quantum liquids: Fermi liquids and collective modes. In *Contemporary physics: Trieste symposium*, 1:3-18.

With G. Baym, C. Pethick, P. Sutherland

Can pulsar masses be determined? *Nature*, 225:353-54.

With C. W. Woo

Sum rules, structure factors, and phonon dispersion in liquid He^4 at long wave-lengths and low temperatures. *Physical Review Letters*, 24:1044-45.

PROPST, FRANKLIN M., Associate Professor

Articles

With M. Nishijima

Apparatus for the study of the electron impact desorption of ions and neutrals from solid surfaces. *Journal of Vacuum Science and Technology*, 7:410.

Kinetics of electron impact desorption of ions and neutrals from polycrystalline tungsten. *Journal of Vacuum Science and Technology*, 7:420.

RAVENHALL, DAVID G., Professor

Articles

With W. J. Pardee

Unitarity upper bounds and elastic scattering. *Physical Review*, 2:589-92.

ROBINSON, CLARK S., Research Professor

Articles

With J. S. Allen, P. Axel, A. O. Hanson, J. R. Harlan, and others

Design of a 600 MeV microtron using a superconducting linac. *Particle Accelerators*, 1:239-45.

SAH, CHIH-TANG, Professor

Articles

See Electrical Engineering.

SALAMON, MYRON B., Assistant Professor

Articles

The specific heat of CoO near T_N : anisotropy effects. *Physical Review*, B2:214-20.

SARD, ROBERT D., Professor

Articles

With H. Frauenfelder, U. E. Kruse

Comments on the letter "Evidence of quarks in air-shower cores." *Physical Review Letters*, 24:33-35.

SATTERTHWAITE, CAMERON B., Professor

Articles

With I. L. Toepke

Superconductivity of hydrides and deuterides of thorium. *Physical Review Letters*, 25: 741-43.

With J. R. Carlson

Anomalous thermal conductivity in superconducting niobium. *Ibid.*, 24:461-64.

SCHROEDER, KURT W., Research Associate

Articles

Influence of trapping at impurity atoms on diffusion annealing of metals after electron irradiation. *Radiation Effects*, 5:255-63.

With W. Schilling, H. Wollenberger

Three-dimensional versus crowdion migration of interstitials in annealing stage I of irradiated metals. *Physica Status Solidi*, 38: 245-57.

SCHULT, ROY L., Associate Professor

Articles

With N. J. Carron

On-shell current algebra and the radiative leptonic decay of K^+ . *Physical Review*, D1: 3171-79.

SCHULTZ, PETER F., Research Associate

Articles

Observation of Ξ^* resonances in 5.5 GeV/c K^-p interactions. In *Hyperon resonances-70*, Moore Publishing Co., Durham, North Carolina, pp. 313-16.

With E. L. Goldwasser

Ξ^- production in 5.5-GeV/c K^-p interactions. *Physical Review*, D1:1960-66.

SHAHAM, JACOB, Research Associate

Articles

With D. Sarid, W. Low

Phase velocity and attenuation of hypersound in water of different isotopic constitution. *Journal of Chemical Physics*, 52:3201.

With H. Kaplan, W. Low

Brillouin scattering in KBr. *Physical Letters*, 31A:201.

With H. Kaplan, W. Low, M. Foguel

Observation of transverse acoustical mode in LiF by means of Brillouin scattering. *Physical Review Letters*, 24:827.

SHERWOOD, BRUCE A., Assistant Professor

Articles

With others

Measurement of the $\Delta S = -\Delta Q$ amplitude from K^0_{e3} decay. *Physical Review Letters*, 25:1214-18.

SIMMONS, RALPH O., Professor and Head of Department

Articles

Use of fcc metals as internal temperature standards in x-ray diffraction. *Journal of Applied Physics*, 41:2235-40.

Measurement of thermal expansion by diffraction methods. In *Proceedings 1968 symposium on thermal expansion* (NBS Miscellaneous Publication) 1970.

With D. S. Kupperman

Sound velocities in polycrystalline krypton. *Journal of Physics*, C3, L195.

SLICHTER, CHARLES P., Professor, Center for Advanced Study

Articles

With J. R. Asik, M. A. Ball, E. K. Cornell

Spin-flip scattering of electrons from atoms embedded in metals. In *Magnetic Resonance*, Plenum Press, New York, pp. 187-95.

With P. R. Spencer, N. D. Schmid

The sensitivity of nuclear magnetic double resonance. *Physical Review*, B1:2989-3001.

STAPLES, JOHN W., Research Associate

Articles

With J. S. Allen, P. Axel, A. O. Hanson, J. R. Harlan, and others

Design of a 600 MeV microtron using a superconducting linac. *Particle Accelerators*, 1:239-45.

SULLIVAN, JEREMIAH D., Associate Professor

Articles

On the importance of pion electroproduction at high energy. *Physics Letters*, 33B:179-82.

The vector-meson dominance model and inelastic electron-proton scattering. *Nuclear Physics*, B22:358-64.

With W. T. Potter

Vector-meson dominance and pion photoproduction. *Nuovo Cimento*, 68A:623-56.

Analyticity of a scattering amplitude in an external mass variable. *Ibid.*, TH. 1213 — CERN.

SUTTON, DAVID C., Associate Professor

Articles

With P. Axel, K. K. Min

Intermediate structure in the photon interaction cross sections of Sn and Zr. *Physical Review*, C2:689-711.

With J. S. Allen, P. Axel, A. O. Hanson, J. R. Harlan, and others

Design of a 600-MeV microtron using a superconducting linac. *Particle Accelerators*, 1:239-45.

TANAKA, SHIGETOSHI, Visiting Professor

Articles

With K. Ueyanagi

Dispersion of electrostatic ion cyclotron wave. *Journal Physical Society of Japan*, 28:1590.

With H. Abe, Y. Kitagawa

Observation of high frequency instability in plasma produced by local electron cyclotron resonance. *Ibid.*, 29:251.

With M. Sugawa, H. Abe, Y. Terumichi

Repelling of electron beam with local electron cyclotron resonance. *Physics Letters*, 32A: 283.

With R. Sugaya, K. Mizuno

Parametric excitation of Bernstein waves in plasmas. *Journal Physical Society of Japan*, 30:253.

TREFIL, JAMES S., Assistant Professor

Articles

The dependence of neutrino-nucleus cross sections on the mass number. *Physical Review*, 2:843-45.

Energy loss of high energy particle pairs in matter. *Physical Review*, 2:128-33.

With R. G. Root

An amusing paradox involving tachyons. *Letters al Nuovo Cimento*, 3:412-14.

With J. Neumeyer

An investigation of some approximations involved in the theory of the interactions of particles and nuclei at high energies. *Nuclear Physics*, B23:315-32.

WILLIAMS, WENDELL S., Professor

Articles

With L. G. Radosevich

Thermal conductivity of transition metal carbides. *Journal of the American Ceramic Society*, 53:30-33.

Lattice thermal conductivity of superconducting niobium carbide. *Physical Review*, 188: 770-73.

With D. L. Kohlstedt, J. B. Woodhouse

Chemical diffusion in titanium carbide crystals. *Journal of Applied Physics*, 41:4476-84.

With D. A. Steffens, R. Bacon

Bending behavior and tensile strength of carbon fibers. *Ibid.*, 4893-4901.

WOO, CHIA-WEI, Visiting Associate Professor

Articles

Toward the calculation of effective interactions in adsorbed helium submonolayers. *Journal of Low Temperature Physics*, 3: 355.

Microscopic theory of quantum liquids in the representation of correlated basis functions. Proceedings, LT 12, Kyoto.

With W. E. Massey, H. T. Tan

Theory of binary boson solutions. *Physical Review*, A1:519.

With H. W. Lai, H. K. Sim

Dispersion of phonons in liquid He⁴. *Ibid.*, pp. 1536-41.

With H. T. Tan

Quasiparticle hamiltonian for liquid He³. *Journal of Low Temperature Physics*, 2: 187.

With D. Pines

Sum rules, structure factors, and phonon dispersion in liquid He⁴ at long wavelengths and low temperatures. *Physical Review Letters*, 24:1044.

With H. K. Sim, J. R. Buchler

Diagrammatic analysis of the method of correlated basis functions. *Ibid.*, pp. 1094-98.

Diagrammatic analysis of the method of correlated basis functions. I: Jastrow correlating factor for a weakly interacting Bose gas. *Physical Review*, A2:2024-32.

With P. R. Roach, J. B. Ketterson

Sound velocity, density and Grüneisen constant in liquid He⁴: a comparison of experiment with theoretically calculated results. *Ibid.*, p. 543.

With H. W. Lai, F. Y. Wu

Communications on a microscopic theory of helium submonolayers. *Journal of Low Temperature Physics*, 3:331.

Theory of helium submonolayers: formulation of the problem and solution in the zero coverage limit. *Ibid.*, p. 463.

With H. K. Sim

Diagrammatic analysis of the method of correlated basis functions. II: Perturbation theory for a weakly interacting Bose gas. *Physical Review*, A2:2032-37.

WRIGHT, JON A., Associate Professor

Articles

With S. C. Pieper, L. Schlessinger

A variational principle for three-particle scattering. *Physical Review*, D1:1674-81.

Variational calculation of three-body breakup amplitudes. *Ibid.*, D2:1561-75.

With M. J. Levine

Comment on non-planar graphs and the Bethe-Salpeter equation. *Ibid.*, D2:2509-10.

WYLD, HENRY W., JR., Professor

Articles

With A. W. Hendry, S. T. Jones

On the Veneziano formulation of pion-nucleon scattering. *Nuclear Physics*, 15:389-96.

With L. Jones

Properties of the Veneziano five point function in the Regge region. *Physical Review*, D1:1840-42.

With S. T. Jones

Comment on scale invariance of inelastic electron-proton scattering in a multiperipheral model with scalar couplings. *Ibid.*, 5:949-51.

WYMAN, MARVIN E., Professor

See Nuclear Engineering.

DOCTORAL DISSERTATIONS

Ashman, John E. (P. Handler, Adviser), Specific heat of the order-disorder transition in β -brass and its relation to the Ising model.

Barengoltz, Jack B. (M. K. Brussel, Adviser), Helium-3 inelastic scattering from several light nuclei.

Bleha, William P., Jr. (R. N. Peacock, Adviser), Photoluminescent properties of vacuum deposited cadmium sulfide films.

Bolte, Steven B. (F. C. Brown, Adviser), Two quantum photoconductivity in potassium iodide.

Brockway, Dennis V. (U. E. Kruse, Adviser), Study of three pion final state interactions in the reaction $\pi^- + p \rightarrow \pi^0 + n$ at 5 and 7.5 GeV/c.

Carrera, Nicholas J. (F. C. Brown, Adviser), Optical absorption measurements on silver halides in the ultraviolet and extreme ultraviolet energy ranges.

Chandler, Gerald D. (E. L. Goldwasser, Adviser), $\pi^+\pi^-\pi^0$ production in K-minus proton interactions at 5.5 GeV/c.

Cooper, Thomas L. (F. M. Propst, Adviser), A study of the energy and angular distributions of electrons scattered from tungsten.

Cullen, Donald E. (W. D. Compton, Adviser), Tunneling spectroscopy in p-type silicon.

Dapkus, Paul D. (N. Holonyak, Jr., Adviser), Laser operation of lightly doped and amphoterically doped GaAs.

Edelheit, Lewis S. (J. Koehler, Adviser), The effect of point defects in copper on the anomalous transmission of X-rays.

Edwards, David E., Jr. (F. M. Propst, Adviser), Electron scattering from a tungsten (100) crystal.

Edwards, John R. (C. T. Sah, Adviser), Investigations of electron scattering mechanisms at the silicon-silicon dioxide interface.

Edwards, Ralph T. (L. J. Koester, Jr., Adviser), A search for direct processes in two pion radiative decays of positive and negative kaons.

Escher, John S. (D. M. Ginsberg, Adviser), Magnetic flux flow and fluctuation effects in thin film superconductors.

Evans, Kenneth E., Jr. (E. A. Jackson, Adviser), Double Laplace transformation in mixed boundary-initial value problems and its application to multi-component plasmas.

Gordon, Howard A. (B. I. Eisenstein, Adviser), Meson and baryon production in the reaction $\pi^+ + p \rightarrow \pi^0 + n$ at 4.19 GeV/c.

Hempstead, Robert D. (J. M. Mochel, Adviser), Heat capacity measurements on manganese dibromide tetrahydrate near its net temperature.

Hyatt, William D. (J. S. Koehler, Adviser), Low temperature annealing of electron irradiated germanium.

Jeffery, Rondo N. (D. Lazarus, Adviser), The effect of high pressure on self-diffusion in beta-titanium.

- Johnson, Richard T. (J. C. Wheatley, Adviser), Application of compressional cooling to the study of nuclear ordering in solid helium three.
- Jones, Colin E. (W. D. Compton, Adviser), The effect of stress on the luminescence spectrum of irradiated silicon.
- Jones, Stanley T. (H. W. Wyld, Jr., Adviser), Multiperipheral models in high energy scattering.
- Kohlstedt, David L. (W. S. Williams, Adviser), Electromigration and chemical diffusion in titanium carbide.
- Kupperman, David S. (R. O. Simmons, Adviser), The velocity of sound in solid krypton.
- Landau, Rubin H. (D. G. Ravenhall, Adviser), Models for meson-deuteron scattering in the resonant region.
- Lang, Joseph E. (J. D. Stack, Adviser), A study of Mac Dowell symmetry, conspiracy and fermion regge trajectories.
- LeCorgne, Denis Y. (W. D. Compton, Adviser), Influence of applied uniaxial stress upon the ultraviolet absorption bands in KBr and KI.
- Mantsch, Paul M. (J. H. Smith, Adviser), A test of the $\Delta S = \Delta Q$ selection rule in K^0_{e3} decay.
- Miller, Robert A. (H. W. Wyld, Jr., Adviser), Numerical study of regge cuts due to absorption in neutral pion photoproduction.
- Nagel, Michael Z. (P. Axel, Adviser), Photoneuclear reactions in silicon²⁸ by monochromatic photons of 17.1 MeV-19.1 MeV.
- Naimon, Edwin R. (A. V. Granato, Adviser), The second and third order elastic constants of magnesium.
- Opelka, James H. (M. K. Brussel, Adviser), Energy dependence of the helium-3 induced charge exchange reaction on several light nuclei with $N - Z = 1$.
- Pieper, Steven C. (J. A. Wright, Adviser), Calculations of three-body scattering amplitudes.
- Potter, Wendell H. (H. J. Stapleton, Adviser), Rotating sample proton spin refrigerators.
- Robichaux, Joseph E., Jr. (A. C. Anderson, Adviser), The thermal conductivity of double nitrate crystals below 1 K.
- Rosier, Laurence L. (C. T. Sah, Adviser), Emission and capture of electrons at sulfur centers in silicon.
- de Rosset, William S. (A. V. Granato, Adviser), An ultrasonic study of creep in sodium chloride.
- Segler, Samuel L. (A. Wattenberg, Adviser), A measurement of the diffraction scattering of pions and protons from complex nuclei using multiwire proportional counters.
- Schufeldt, Warren E. (T. A. O'Halloran, Adviser), The K-zero proton pi-plus channel in K-plus proton interactions at 3.2 GeV/c.
- Stacy, William T. (F. C. Brown, Adviser), Delayed fluorescence as a probe of radiationless transitions in anthracene and algae.
- Weaver, Loren E. (J. M. Mochel, Adviser), Thermal conductivity of helium near the lambda point and the liquid-gas critical point.
- Whitmore, James J. (T. A. O'Halloran, Adviser), K-plus proton elastic scattering at 2.53, 2.76 and 3.20 GeV/c.
- Windecker, Richard C. (R. O. Simmons, Adviser), The X-ray debye temperature of solid krypton.

- Zally, George D. (J. M. Mochel, Adviser), Fluctuation contributions to the heat capacity of superconducting thin films.

PHYSIOLOGY AND BIOPHYSICS

ADES, HARLOW W., Professor
See Electrical Engineering.

BARR, LLOYD, Professor
Articles

Some biophysical aspects of ureteral smooth muscle. In *The hydrodynamics of the ureter*, ed. by P. D. Zimskind and S. Boyarsky, Academic Press, New York, pp. 287-96.

Some considerations about the structure of cellular membranes. In *Current topics in membranes and transport*, ed. by F. Bronner and A. Kleinzeller, Academic Press, New York, pp. 1-33.

BUETOW, DENNIS E., Professor

Articles

Preparation of mitochondria from protozoa and algae. In *Methods in cell physiology*, ed. by D. M. Prescott, Academic Press, New York, pp. 83-115.

With N. G. Avadhani

Translation of a purified DNA-RNA complex. *Nature*, 228:242-45.

With N. G. Avadhani, D. H. Roe

Isolation of a DNA-RNA complex from *Euglena gracilis*. *FEBS Letters*, 7:217-19.

With N. G. Avadhani, K. E. Schuit, D. H. Roe

The occurrence of a DNA-RNA complex in *Euglena gracilis*. *Physiological Chemistry and Physics*, 2:34-48.

With G. F. Leedale

Observations on the mitochondrial reticulum in living *Euglena gracilis*. *Cytobiologie*, 1: 195-202.

With K. E. Schuit, N. G. Avadhani

Analysis of the RNA of *Euglena gracilis* on polyacrylamide gels. *Archiv für Mikrobiologie*, 71:79-88.

DONCHIN, EMANUEL, Associate Professor
See Psychology.

DUCOFF, HOWARD S., Professor

Articles

With S. Jayaraman

Partial-body irradiation of larvae of *Tenebrio molitor*. *Journal of Invertebrate Pathology*, 16, 2:317-18.

With A. P. Vaughan, J. L. Crossland

Sensitivity to starvation as an index of physiological age in *Tricholium*. *Experimental Gerontology*, 5:230-40.

DUNN, FLOYD, Professor

See Electrical Engineering.

GIANTURCO, CESARE, Clinical Professor

Articles

With B.-S. Jeng

Notes on lymphangiographic technique. *The American Journal of Roentgenology, Radium Therapy and Nuclear Medicine*, 109, 1:190-96.

With T. Shimizu, F. R. Steggerda, R. P. Taylor
Measurement of blood flow by angiography with increasing rate of injection. *Investigative Radiology*, 5, 5:361-63.

GORSKI, JACK, Professor

Articles

With G. Shyamala, D. Toft

The search for hormone receptors: studies on estrogen binding in the uterus. In *Fundamental concepts in drug-receptor interactions*, ed. by Danielli, Moran and Triggle, Academic Press, London, pp. 215-28.

With A. Barnea

Estrogen-induced protein: time course of synthesis *in vivo*. *Biochemistry*, 9, 9:1899-1904.

Guanethidine effects on the metabolic response of the rat uterus to estrogen. *Endocrinology*, 86, 4:909-11.

With J. H. Clark

The ontogeny of the estrogen receptor during early uterine development. *Science*, 169, 3940:76-78.

With A. B. DeAngelo

The role of RNA synthesis in the estrogen induction of a specific uterine protein. *Proceedings of the National Academy of Sciences of the United States of America*, 66, 3:693-700.

GOVINDJEE, Professor

See Botany.

HEATH, JAMES E., Associate Professor

Articles

Behavioral regulation of body temperature in poikilotherms. *The Physiologist*, 13, 4: 399-410.

With J. L. Hanegan

Mechanisms for the control of body temperature in the moth, *Hyalophora cecropia*. *Journal of Experimental Biology*, 53:349-62.

Activity patterns and energetics of the moth, *Hyalophora cecropia*. *Ibid.*, pp. 611-28.

Temperature dependence of the neural control of the moth flight system. *Ibid.*, pp. 629-39.

With R. K. Josephson

Body temperatures and singing in the katydid, *Neoconocephalus robustus* (Orthoptera, Tettigoniidae). *Biological Bulletin*, 138: 272-85.

With M. J. Kluger

Vasomotion in the bat wing: a thermoregulatory response to internal heating. *Comparative Biochemistry and Physiology*, 32:219-26.

With S. H. Mills

Thermoresponsiveness of the preoptic region of the brain in house sparrows. *Science*, 168:1008-9.

With P. J. Wilkin

Temperature responses of the desert cicada, *Diceroprocta apache* (Homoptera, Cicadidae). *Physiological Zoology*, 43:145-54.

With B. A. Williams

Responses to preoptic heating and cooling in a hibernator, *Citellus tridecemlineatus*. *American Journal of Physiology*, 218:1654-60.

JENDRASIAK, GORDON L., Assistant Professor

Articles

Interaction of iodine with lecithin miscelles. *Chemistry and Physics of Lipids*, 4:85.

With R. Hayes

Spin-label study on the iodine-lecithin interaction. *Nature*, 225:278.

JOHNSON, ROBERT E., Professor

Articles

With J. C. Fasciolo, G. L. Totel, B. B. Johnson

A method for the calculation of the relative contributions of recruitment and enhancement to human eccrine sweating. *The Journal of Clinical Investigation*, 49, 5:890-97.

With B. B. Johnson

Training of eccrine sweat glands in paraplegics. *The Journal of Investigative Dermatology*, 54, 3:229-32.

With W. A. Kachadorian

Renal responses to various rates of exercise. *Journal of Applied Physiology*, 28, 6:748-52.

Athletic pseudonephritis in relation to rate of exercise. *The Lancet*, 1:472-73.

With W. A. Kachadorian, R. E. Buffington, L. Lawler, J. J. Serbin, T. Woodall

The regularity of "athletic pseudonephritis" after heavy exercise. *Medicine and Science in Sports*, 2, 3:142-45.

With A. Pierro

Creatinine excretion. *The Lancet*, 1:784-85.

Reviews

Daniel Carl Solander: naturalist on the "Endeavor," by Roy Anthony Rauschenberg. *Isis*, 60, 203:411-12. 1969.

KIRK, EDWARD S., Assistant Professor

Articles

With H. F. Downey

Indications from coronary lymph and early extraction data that steady-state uptake of ⁴²K is not primarily limited by the capillary wall. In *Capillary permeability* (Alfred Benzon Symposium No. 2), Munksgaard, Copenhagen, pp. 326-34.

NALBANDOV, ANDREW V., Professor

See Animal Science.

PROSSER, C. LADD, Professor

Articles

The joys of locomotion. *The Physiologist*, 13: 373-78.

With J. R. Hazel

Interpretation of inverse acclimation to temperature. *Zeitschrift für vergleichende Physiologie*, 67:217-28.

With F. Lang, A. M. Sutterlin

Electrical and mechanical properties of closer muscle of Alaskan king crab, *Paralithodes camtschatica*. *Comparative Biochemistry and Physiology*, 32:615-28.

With W. C. Mackay

Ionic and osmotic regulation in the king crab and two other North Pacific crustaceans. *Comparative Biochemistry and Physiology*, 34:273-80.

With W. C. Mackay, K. Kato

Osmotic and ionic concentrations of some Alaskan fish and goldfish from different temperatures. *Physiological Zoology*, 43:81-89.

With A. M. Sutterlin

Electrical properties of goldfish optic tectum. *Journal of Neurophysiology*, 33:36-45.

Reviews

Fish physiology, ed. by W. S. Hoar and D. J. Randall. *BioScience*, 20:632.

RUH, MARY F., Instructor

Articles

With T. S. Ruh, H. M. Klitgaard

Uptake and retention of estrogens by uteri from rats in various thyroid states. *Proceedings of the Society for Experimental Biology and Medicine*, 134, 2:558-61.

Effect of thyroid states on uterine sensitivity to estrogen. *Proceedings of the Society for Experimental Biology and Medicine*, 134, 4:947-51.

STEGGERDA, FREDERIC R., Professor

Articles

With C. Gianturco, T. Shimizu, R. P. Taylor
Measurement of blood flow by angiography with increasing rate of injection. *Investigative Radiology*, 5, 5:361-63.

With J. J. Rackis, D. H. Honig, D. J. Sessa
Flavor and flatulence factors in soybean protein products. *Agricultural and Food Chemistry*, 18, 6:977-82.

With J. J. Rackis, D. J. Sessa, T. Shimizu, J. H. Anderson, S. L. Pearl
Soybean factors relating to gas production by intestinal bacteria. *Journal of Food Science*, 35:634-39.

SYBESMA, CHRISTIAAN, Associate

Professor

Articles

Photosynthetic bacteria. In *Photobiology of microorganisms*, ed. by Per Halldal, Wiley-Interscience, London, pp. 57-93.

With C. F. Fowler

Light- and chemically-induced oxidation-reduction reactions in chromatophore fractions of *Rhodospirillum rubrum*. *Biochimica et Biophysica Acta*, 197:276-83.

With R. Govindjee

Light-induced reduction of pyridine nucleotide and its relation to light-induced electron transport in whole cells of *Rhodospirillum rubrum*. *Ibid.*, 223:251-60.

TWARDOCK, A. ROBERT, Professor

See Veterinary Physiology and Pharmacology.

VON FOERSTER, HEINZ M., Professor

See Electrical Engineering.

WILLIS, JOHN S., Associate Professor

Articles

With P. F. Baker

Potassium ions and the binding of cardiac glycosides to mammalian cells. *Nature*, 226: 521-26.

With L. S. T. Fang

Li stimulation of ouabain-sensitive respiration and Na-K-ATPase of kidney cortex of ground squirrels. *Biochimica et Biophysica Acta*, 219:486-89.

DOCTORAL DISSERTATIONS

Aprille, June R. (D. E. Buetow, Adviser), Isolation and partial characterization of enzymatically active nuclei from streptomycin-bleached *Euglena gracilis*.

Barry, John E. (J. Gorski, Adviser), Uterine RNA polymerase: effect of estrogen on nucleotide incorporation into 3' chain ends.

Coulson, Patricia B. (J. Gorski, Adviser), Lutetizing hormone interaction with its target ovarian tissue.

DeAngelo, Anthony B. (J. Gorski, Adviser),

The role of RNA synthesis in the estrogen induction of a specific uterine protein.

Goldman, Stephen S. (J. S. Willis, Adviser), Cold resistance of cation regulation in the brain during hibernation.

Hanegan, James L. (J. E. Heath, Adviser), Thermoregulatory mechanisms and metabolic cost of heat production in the moth *Hyalophora cecropia*.

Kachadorian, William A. (R. E. Johnson, Adviser), Renal function in relation to exercise and thermal environment.

Lang, Frederick (C. L. Prosser, Adviser), Electrophysiological, pharmacological and ultrastructural studies of the heart and cardiac ganglion of the horseshoe crab, *Limulus polyphemus*.

Mortimore, Betty W. (H. S. Ducoff, Adviser), Antibacterial defense mechanisms of insect larvae and the effect of X-irradiation.

Roe, David H. (D. E. Buetow, Adviser), RNA studies in dividing and nondividing *Euglena* and mature rat liver.

Sarff, Mary M. (J. Gorski, Adviser), Control of estrogen receptor concentration in the rat uterus under basal conditions and after estrogen treatment.

Spooner, Peter M. (J. Gorski, Adviser), Early estrogen effects on lipid metabolism in rat uterus.

Tigchelaar, Peter V. (A. V. Nalbandov, Adviser), The effect of the pineal gland on ovulation and pregnancy in the rat.

PLANT PATHOLOGY

BLACK, LINDSAY M., Professor

See Botany.

CHAMBERLAIN, DONALD W., Associate

Professor

Articles

Temperature ranges inducing susceptibility to *Phytophthora megasperma* var. *sojae* in resistant soybeans. *Phytopathology* 60, 2: 293-94.

EDWARDS, DALE I., Assistant Professor

Articles

With R. A. Sikora

An evaluation of nematicides for control of the soybean cyst nematode. In *Proceedings of VIIth international congress of plant protection*, Paris, pp. 196-97.

With R. B. Malek, D. P. Taylor

The barley root-knot nematode. *Illinois Research* 12, 2:3-4.

FORSBERG, JUNIUS L., Professor

Articles

A comparison of the effects of thiram and benomyl used as gladiolus corm treatments. *Plant Disease Reporter*, 54, 4:289-90.

With J. E. Appleby

New chemicals appear promising for gladiolus disease control. *Illinois State Florists Association, Bulletin*, 312:4-7, 10-11, 14.

With J. L. Crane

A disease of ageratum new to the United States. *Plant Disease Reporter*, 54, 12: 1095-96.

GERDEMANN, JAMES W., Professor

Articles

The significance of vesicular-mycorrhizae in

plant nutrition. In *Root diseases and soil-borne plant pathogens*, ed. by Toussoun, Bega, and Nelson, University of California Press, Berkeley, pp. 125-29.

With J. M. Trappe

Endogone incrasata: a zygosporic species with hollow sporocarps. *Mycologia* 62, 6: 1204-8.

GOTTLIEB, DAVID, Professor

Articles

Preface to the Actinomycetales. In *The Actinomycetales: the Jena international symposium on taxonomy*, German Democratic Republic, p. 7.

Species in the genus *Streptomyces*. In *Taxonomy of microorganisms* (proceedings 10th symposium on microbiology, 1968), Institute of Applied Microbiology, Tokyo, pp. 159-70.

With P. M. Allen

Mechanism of action of the fungicide thiabendazole, 2-(4'-thiazolyl) benzimidazole. *Applied Microbiology*, 20, 6:919-26.

With K. Kumar

The effect of thiabendazole on spore germination. *Phytopathology* 60, 10:1451-55.

With T. G. Obrig

In vitro protein synthesis and aging in *Rhizoctonia solani*. *Journal of Bacteriology* 101, 3:755-62.

With P. D. Shaw

Mechanism of action of antifungal antibiotics. *Annual Review of Phytopathology*, 8:371-402.

With W. T. Shier, K. L. Rinehart, Jr.

Preparation of two new aminoglycoside antibiotics. *Journal of Antibiotics*, 23:51-53.

With E. B. Shirling

An analysis of species groups among Streptomyces. In *The Actinomycetales: the Jena international symposium on taxonomy*, German Democratic Republic, pp. 67-77.

Report of the international Streptomyces project. *Ibid.*, pp. 79-87.

With B. Skouronski

Age-dependent differences in principal hyphae of *Rhizoctonia solani*. *Journal of Bacteriology*, 104, 2:640-45.

Reviews

Abstracts of microbiological methods, by V. B. D. Skerman. *American Society of Microbiology News*, 36:20-21.

GRAY, LYNN E., Assistant Professor

Articles

With P. N. Thapliyal, J. B. Sinclair

A rating system for determining soybean yield reduction by *Cephalosporium gregatum*. *Phytopathology*, 60, 6:1024.

With J. B. Sinclair

Uptake and translocation of systemic fungicides by soybean seedlings. *Ibid.*, 10:1486-88.

HOOKE, ARTHUR L., Professor

Articles

With J. O. Amos

Weight loss of mature corn stalk tissue induced by twelve fungi. *Phytopathology* 60, 12:1790-93.

With S. N. Dubey, C. M. Brown

Inheritance of field reaction to soil-borne wheat mosaic virus. *Crop Science*, 10:93-95.

With S. M. Lim, J. D. Paxton

Isolation of phytoalexins from corn with monogenic resistance to *Helminthosporium turcicum*. *Phytopathology*, 60, 7:1071-75.

With D. R. Smith, S. M. Lim

Physiologic races of *Helminthosporium maydis*. *Plant Disease Reporter*, 54, 10:819-22.

With D. R. Smith, S. M. Lim, J. B. Beckett

Reaction of corn seedlings with male-sterile cytoplasm to *Helminthosporium maydis*. *Ibid.*, 8:708-12.

With D. R. Smith, S. M. Lim, M. D. Musson

Physiological races of *Helminthosporium maydis* and disease resistance. *Ibid.*, 13:1109-10.

JEDLINSKI, HENRYK, Assistant Professor

Articles

With W. F. Rochow

Variants of barley yellow dwarf virus collected in New York and Illinois. *Phytopathology*, 60, 7:1030-35.

LIM, SUNG M., Research Associate

Articles

With A. L. Hooker, J. D. Paxton

Isolation of phytoalexins from corn with monogenic resistance to *Helminthosporium turcicum*. *Phytopathology*, 60, 7:1071-75.

With A. L. Hooker, D. R. Smith

Physiologic races of *Helminthosporium maydis*. *Plant Disease Reporter*, 54, 10:819-22.

With A. L. Hooker, D. R. Smith, J. B. Beckett

Reaction of corn seedlings with male-sterile cytoplasm to *Helminthosporium maydis*. *Ibid.*, 8:708-12.

With A. L. Hooker, D. R. Smith,

M. D. Musson

Physiological races of *Helminthosporium maydis* and disease resistance. *Ibid.*, 13:1109-10.

LINN, MANSON B., Professor

Articles

With O. N. Nesheim

Nylon mesh discs useful in the transfer of fungi and the evaluation of soil fungitoxicans. *Phytopathology*, 60, 2:395-96.

Bulletins and Technical Reports

Vegetable diseases. Illinois College of Agriculture Circular 802, Urbana, 68 pp.

With W. H. Luckmann

Tomato diseases and their control. *Ibid.*, Circular 912, 54 pp.

MALEK, RICHARD B., Assistant Professor

Articles

With D. P. Taylor, D. I. Edwards

The barley root-knot nematode. *Illinois Research*, 12, 2:3-4.

PAXTON, JACK D., Associate Professor

Books Edited

Methods in plant pathology. Akademiai Kiado, Budapest, Hungary, 509 pp.

Articles

With J. A. Frank

Time sequence for phytoalexin production in Harosoy and Harosoy 63 soybeans. *Phytopathology*, 60, 2:315-18.

With S. M. Lim, A. L. Hooker

Isolation of phytoalexins from corn with monogenic resistance to *Helminthosporium turcicum*. *Ibid.*, 7:1071-75.

POWELL, DWIGHT, Professor

Articles

Fire blight control. *American Fruit Grower*, 90, 2:28-30.

Pesticides. *Transactions of the Illinois State Horticulture Society*, 103:94-98.

With C. C. Doll

Apple powdery mildew control in Illinois. *Transactions of the Illinois State Horticulture Society*, 103:127-30.

With C. Gairola

Cytospora peach canker in Illinois. *Plant Disease Reporter*, 54, 10:832-35.

SCHOENEWEISS, DONALD F., Assistant Professor

Articles

Diseases of evergreens. In *Handbook on conifers*, ed. by Teuscher, Brooklyn Botanic Garden, Brooklyn, New York, pp. 58-64.

Susceptibility of evergreen hosts to the juniper blight fungus *Phomopsis juniperovora*, under epidemic conditions. *Journal of the American Society for Horticultural Science*, 94, 6:609-11.

SCHUSTER, JAMES E., Research Assistant

Articles

With D. Neely

Rate of upward movement of *Ceratocystis ulmi* in elms. *Plant Disease Reporter*, 54, 1:58-59.

SHAW, PAUL D., Associate Professor

Articles

With D. Gottlieb

Mechanism of action of antifungal antibiotics. *Annual Review of Phytopathology*, 8:371-402.

SINCLAIR, JAMES B., Professor

Articles

With L. E. Gray

Uptake and translocation of systemic fungicides by soybean seedlings. *Phytopathology*, 60, 10:1486-88.

With L. E. Gray, P. N. Thapliyal

A rating system for determining soybean yield reduction by *Cephalosporium gregatum*. *Ibid.*, 6:1024.

With P. N. Thapliyal

Uptake of three systemic fungicides by germinating soybean seed. *Ibid.*, 9:1373-75.

With W. A. Meyer

Pyrenochaeta terrestris, a root pathogen on creeping bentgrass. *Plant Disease Reporter*, 54, 6:506-7.

With W. A. Meyer, M. P. Britton, L. E. Gray

Fungicide effects on fungal ecology in creeping bentgrass turf. *Mycopathologia et Mycologia Applicata*, 41:167-73.

SMITH, DAVID R., Assistant Plant Pathologist

Articles

With A. L. Hooker, S. M. Lim

Physiological races of *Helminthosporium maydis*. *Plant Disease Reporter*, 54, 10:819-22.

With A. L. Hooker, S. M. Lim, J. B. Beckett

Reaction of corn seedlings with male-sterile cytoplasm to *Helminthosporium maydis*. *Ibid.*, 8:708-12.

With A. L. Hooker, S. M. Lim, M. D. Musson

Physiological races of *Helminthosporium maydis* and disease resistance. *Ibid.*, 13:1109-10.

TAYLOR, DONALD P., Professor

Articles

With R. B. Malek, D. I. Edwards

The barley root-knot nematode. *Illinois Research*, 12, 2:3-4.

With W. E. Schlosser, A. T. Saad

First report of the reniform nematode, *Rotylenchulus reniformis*, from Lebanon. *Plant Disease Reporter*, 54, 5:435-36.

With D. A. Chin

Observations on molting in species of *Cylindrocorpus*. *Nematologica*, 16, 1:1-5.

With I. A. Siddiqui

Histopathogenesis of galls induced by *Meloidogyne naasi* in wheat roots. *Journal of Nematology*, 2, 3:239-47.

The biology of *Meloidogyne naasi*. *Nematologica*, 16:133-43.

Symptoms and varietal reaction of oats to the Illinois isolate of the barley root-knot nematode, *Meloidogyne naasi*. *Plant Disease Reporter*, 54, 11:972-75.

THORNBERRY, HALBERT H., Professor

Articles

Virus nomenclature (nomenclature of viruses infecting plants). In *International virology I*, ed. by Melnick, S. Karger, Basel, New York, p. 211.

Peach stem pitting in Illinois. *Plant Disease Reporter*, 54, 1:67-68.

With Y. L. Nene

Tobacco mosaic virus: factors influencing the inhibition of infection on bean leaves by ribonuclease. *Phytopathologische Zeitschrift*, 67, 3:234-39.

Tobacco mosaic virus: bean infection inhibition by steapsin and trypsin compared with ribonuclease. *Ibid.*, 4:337-41.

With L. Joshi

Tobacco mosaic virus: effect of calcium phosphate salts on infectivity. *Phytopathologische Zeitschrift*, 68, 2:155-63.

DOCTORAL DISSERTATIONS

Amosu, Jolayemi O. (D. P. Taylor, Adviser), Interaction of *Meloidogyne hapla*, *Pratylenchus penetrans* and *Tylenchorhynchus agri* on Kenland red clover.

Frank, James A. (W. M. Bever and J. D. Paxton, Advisers), An inducer of soybean phytoalexin and its role in the resistance of soybeans to phytophthora rot.

Safir, Gene R. (J. W. Gerdemann, Adviser), Part I: Mycorrhizal enhancement of water transport in soybean. Part II: Mechanism of mycorrhizal enhancement of water transport in soybean.

Shawkat, Abdul-Latif B. (H. H. Thornberry, Adviser), Isolation, characterization and mode of action of plant viral infection inhibitor from *Stokesia laevis* (Hill) Green.

Sikora, Richard A. (D. P. Taylor, Adviser), Interaction of *Meloidogyne naasi*, *Pratylenchus penetrans*, *Tylenchorhynchus agri*, and *Trichodorus christiei* on 'Toronto C-15' creeping bentgrass.

Terry, Eugene R. (W. M. Bever and H. Jedlinski, Advisers), Studies on barley yellow-dwarf virus-vector-host interrelationships.

Thapliyal, Poorna N. (J. B. Sinclair, Adviser), Systemicity and fungicidal activity of three systemic fungicides in soybean.

POLITICAL SCIENCE

BERDAHL, CLARENCE A., Professor
Emeritus

Books

With C. M. Eichelberger and others

The United Nations: the next twenty-five years: twentieth report of the Commission to Study the Organization of Peace (rev. ed., with accompanying papers). Oceana Publications, Inc., Dobbs Ferry, New York, 263 pp.

Bulletins and Technical Reports

With C. M. Eichelberger and others

The United Nations and the bed of the sea (2): 21st report of Commission to Study the Organization of Peace. Commission to Study the Organization of Peace, New York, 45 pp.

BYARS, ROBERT S., Assistant Professor

Reviews

A strategy for research on social policy, vol. 1 of *The politics of change in Venezuela*, ed. by Frank Bonilla and José A. Silva Michelena. *International Development Review*, 11, 2:28-29.

CARROL, BERENICE A., Assistant Professor

Articles

Armed forces and society, ed. by Jacques van Doorn. *Comparative Studies in History and Society*, 12, 4:462-66.

War termination and conflict theory: value premises, theories, and policies. *The Annals of the American Academy of Political and Social Science*, 392, November:14-29.

DAVIS, MORRIS, Professor

Books

With M. G. Weinbaum

Metropolitan decision processes: an analysis of case studies. Rand McNally and Co., Chicago, 131 pp.

Articles

Monetary fines and limitations in Plato's magnesia. *Classical Philology*, 64, 2:98-101.

Hugh Wilson's twenty-two identical letters. *Ethics*, 80, 1:53-55.

On the applicability of the notion of self-restraint. *Peace Research Society (International) Papers*, 13:105-15.

Nigeria's voices abroad. *West Africa*, 2761: 513.

Nigeria's voices abroad. *Ibid.*, 2762:547.

Reviews

Political communication, by Satish K. Arora. Harold D. Lasswell. *American Political Science Review*, 63, 3:960-61.

DOUGLAS, STEPHEN A., Assistant Professor

Books

Political socialization and student activism in Indonesia. University of Illinois Press, Urbana, 228 pp.

Articles

With H. Bachtar

Indonesian students: the generation of 1966. In *The student revolution: a global analysis*, ed. by Philip G. Altbach, Lalvani Publishing House, Bombay, India, pp. 155-76.

Science and technology and the political culture. In *Indonesia: resources and their technological development*, ed. by Howard W. Beers, The University Press of Kentucky, Lexington, pp. 238-58.

Creeching self-reliance in Malaysia. *Current History*, 59, 352:345-50, 365.

FIELDS, A. BELDEN, Assistant Professor

Books

Student politics in France: a study of the union nationale des étudiants de France. New York Basic Books, New York, 198 pp.

Articles

The revolution betrayed: the French student revolt of May-June 1968. In *The student revolution: a global analysis*, ed. by Philip G. Altbach, Lalvani Publishing House, Bombay, India, pp. 337-53.

LEWIS, EDWARD G., Professor

Articles

Social backgrounds of French ministers, 1944-67. *Western Political Quarterly*, 23, 3:564-78.

Reviews

Crisis and decline: the French Socialist Party in the popular front era, by Nathanael Green. *Social Science Quarterly*, 51:201-2.

MERRITT, RICHARD L., Professor

Books

Systematic approaches to comparative politics. Rand McNally and Co., Chicago, 264 pp.

With K. W. Deutsch

Nationalism and national development: an interdisciplinary bibliography. The Massachusetts Institute of Technology Press, Cambridge, Massachusetts, and London, 519 pp.

With A. J. Merritt

Public opinion in occupied Germany: the OMGUS surveys, 1945-1949. University of Illinois Press, Urbana, 328 pp.

Articles

Perspectives on history in divided Germany. In *Public opinion and historians: interdisciplinary perspectives*, ed. by Melvin Small, Wayne State University Press, Detroit, Michigan, pp. 139-74.

Reviews

Domestic sources of foreign policy, ed. by James N. Rosenau. *Contemporary Psychology*, 15:136-38.

MILLER, ROBERT F., Associate Professor

Reviews

Disarmament and Soviet policy, 1964-1968, by Thomas B. Larson. *The Journal of Politics*, 32, 3:739-40.

Soviet perspectives on international relations, 1956-1967, by William Zimmerman. *The American Political Science Review*, 64, 2:612-13.

NAGEL, STUART S., Professor

Articles

Causes and effects of constitutional compliance. In *NOMOS XII—political and legal obligation*, ed. by Pennock, Atherton, New York, pp. 219-28.

The tipped scales of American justice. In *The politics of local justice*, ed. by Klonoski and Mendelsohn, Little Brown, Boston, pp. 114-27.

Judicial backgrounds and criminal cases. In *The sociology of punishment and correc-*

tion, ed. by Johnston, Savitz, and Wolf-gange, John Wiley, New York, pp. 228-36. Characteristics associated with Supreme Court greatness. *American Bar Association Journal*, 56:957-59.

An overview of law and social change. *American Behavioral Scientist*, 13, 4:485-91.

Improved law and order for the poor. *Chicago Daily Law Bulletin*, 116, 82:8.

PELTASON, JACK W., Professor and Chancellor, University of Illinois at Urbana-Champaign

Books

With D. B. Herzberg

A student guide to campaign politics. McGraw Hill Book Company, New York, 84 pp.

Understanding the constitution (fifth ed.). Holt, Rinehart and Winston, Inc., New York, 210 pp.

SCOTT, ROBERT E., Professor

Reviews

Political administration in Mexico, by Julio A. Fernández. *Administrative Science Quarterly*, 15, 2:260.

Politics in the altiplano: the dynamics of change in rural Peru, by Edward Dew. *The Hispanic American Historical Review*, 50:393-95.

Power in Ica: the structural history of a Peruvian community, by E. A. Hammel. *Ibid.*, p. 397-99.

The Latin Americans, by Victor Alba. *Ibid.*, p. 506.

Modernization and coercion, by Mario Barera. Development processes in Chilean local government, by Peter S. Cleaves. Social stratification in Peru, by Magali Sarfatti Larson and Arlene Eisen Bergman. Latin America: the hegemonic crisis and the military coup, by José Nun. *The Hispanic American Historical Review*, 50: 748-49.

WEINBAUM, MARVIN G., Assistant Professor

Articles

Congress and the commissioner. In *The Kerner report revisited*, ed. by Philip Meranto, Institute of Government and Public Affairs, Urbana, pp. 119-35.

Partisan or nonpartisan. *National Civic Review*, 59:532-37, 566.

With D. R. Judd

In search of a mandated congress. *Midwest Journal of Political Science*, 14:276-303.

YU, GEORGE T., Professor

Books

China and Tanzania: a study in cooperative interaction. Center for Chinese Studies, Berkeley, California, 100 pp.

Articles

China in Africa. In *The year book of world affairs 1970*, ed. by The London Institute of World Affairs, Stevens and Sons Ltd., London, pp. 125-37.

China's competitive diplomacy in Africa. In *The dynamics of China's foreign relations*, ed. by Jerome Alan Cohen, Harvard University Press, Cambridge, Massachusetts, pp. 69-87.

Reviews

The Kuomintang: selected historical documents, 1894-1969, by Milton J. T. Shieh. *The Journal of Asian Studies*, 30, 1:181-82.

DOCTORAL DISSERTATIONS

Anderson, William D. (P. Monypenny, Adviser), The intersection of foreign and domestic policy: the examples in public law 480.

Baker, Ralph E. (S. K. Gove, Adviser), Constitutional revision in five states: limited versus unlimited convention.

Bartel, Ronald F. (B. Glad, Adviser), Attitudes toward limited war: an analysis of elite and public opinion during the Korean conflict.

Chey, Myung (G. T. Yu, Adviser), The dynamics of party and army in China: a study of institutions in conflict and consensus.

Epstein, Edward C. (R. E. Scott, Adviser), Motivational bases of loyalty in the Peruvian Aprista party.

Grant, Lawrence V. (P. Monypenny, Adviser), Decision-making in the United States House of Representatives: a computer simulation.

Klecka, William R. (P. Monypenny, Adviser), Political generations and political behavior.

Premdas, Ralph R. (R. E. Scott, Adviser), Political parties in a bifurcated state: the case of Guyana.

Thorsen, Laurence C. (E. G. Lewis, Adviser), French medical syndicates as political pressure groups.

Welch, Susan K. (E. G. Lewis, Adviser), Groups and foreign policy decisions: the case of Indochina, 1950-1956.

PRESIDENT'S OFFICE

HENRY, DAVID D., President.

Articles

Commentary. In *State officials and higher education (A survey of the opinions and expectations of policy makers in nine states)*, by Eulau and Quinley, McGraw-Hill Book Co., New York, pp. 187-93.

Concern for Consensus. In *Public speaking as dialogue: readings and essays*, ed. by Ericson and Forston, Kendall/Hunt Publishing Company, Dubuque, Iowa, pp. 24-29.

Introduction. In *The new business of business*, by Cook, University of Illinois Press, Urbana, pp. ix-xii.

PSYCHOLOGY

ADAMS, JACK A., Professor

Articles

With N. W. Bray

A closed-loop theory of paired-associate learning. *Psychological Review*, 77, 5:385-405.

Reviews

Fundamentals of skill, by A. T. Welford. *American Journal of Psychology*, 83, 2:299-301.

ADES, HARLOW W., Professor

See Electrical Engineering

AJZEN, ICEK, Assistant Professor

Articles

With M. Fishbein

The prediction of behavior from attitudinal and normative variables. *Journal of Experimental Social Psychology*, 6, 4:466-87.

With R. K. Darroch, M. Fishbein, J. A. Hornik
Looking backward revisited: a reply to Deutscher. *The American Sociologist*, 5, 3:267-73.

ALVARES, KENNETH M., Assistant Professor
See Institute of Aviation.

ANDERSON, RICHARD C., Professor
See Education.

BANKS, EDWIN M., Professor
See Zoology.

BERNSTEIN, DOUGLAS A., Assistant Professor

Articles

The modification of smoking behavior: a search for effective variables. *Behavior Research and Therapy*, 8:133-46.

The modification of smoking behavior: an evaluative review. In *Learning mechanisms and smoking*, Aldine Publishing Co., Chicago, pp. 3-41.

BIJOU, SIDNEY W., Professor

Articles

Reinforcement history and socialization. In *Early experiences and the processes of socialization*, ed. by R. A. Hoppe, Academic Press, New York, pp. 43-58.

What psychology has to offer education — now. *Journal of Applied Behavior Analysis*, 3: 65-71.

BOGARTZ, RICHARD S., Professor

Articles

Transforming response measures to remove interactions or other sources of variance. *Psychonomic Science*, 19, 2:87-89.

BOWERS, JOHN, Assistant Professor
See Instructional Resources, Office of.

CAMPIONE, JOSEPH C., Associate Professor
See Children's Research Center.

CATTELL, RAYMOND B., Professor

Articles

Separating endogenous, ecogenic, and epogenic component curves in developmental data. *Developmental Psychology*, 3, 2:151-62.

With A. Wagner, M. D. Cattell

Adolescent personality structure in Q-data, checked in the High School Personality Questionnaire. *British Journal of Psychology*, 61, 1:39-54.

With K. H. Delhees

Obtaining 16 P.F. scores from the MMPI, and MMPI scores from the 16 P.F. *Journal of Projective Techniques & Personality Assessment*, 34, 3:251-55.

With T. E. Dielman, J. M. Schuerger

Prediction of junior high school achievement from I.O. and the objective-analytic personality factors, U.I. 21, U.I. 23, U.I. 24, and U.I. 25. *Personality*, 1, 2:145-52.

With K. A. Schneewind

Zum problem der faktoridentifikation: Verteilungen und Vertrauensintervalle von Kongruenzkoeffizienten für Persönlichkeitsfaktoren in Bereich objektiv-analytischer Tests. *Psychologische Beiträge*, 12, 2:214-26.

With J. M. Schuerger, T. E. Dielman

Objective-analytic personality factors (U.I. 16, 17, 19, and 20) as correlates of school achievement. *Personality*, 1, 2:95-101.

With M. M. Tatsuoka

Linear equations for estimating a person's occupational adjustment, based on information on occupational profiles. *British Journal of Educational Psychology*, 40:324-34.

CLORE, GERALD L., Associate Professor

Articles

With B. Baldrige

The behavior of item weights in attitude-attraction research. *Journal of Experimental Social Psychology*, 6, 2:177-86.

With P. A. Reager

Attraction, test anxiety, and similarity-disimilarity of test performance. *Psychonomic Science*, 18, 4:219-20.

With D. Byrne

A reinforcement model of evaluative responses. *Personality*, 1, 2:103-28.

COHEN, JOZEF, Professor

Books

Secondary motivation. I. Personal motives (Eyewitness Series in Psychology). Rand McNally and Co., Chicago, 71 pp.

Secondary motivation. II. Social motives. *Ibid.*, 71 pp.

COHEN, LESLIE B., Assistant Professor

Articles

With C. N. Pancratz

Recovery of habituation in infants. *Journal of Experimental Child Psychology*, 9, 2:208-16.

With D. J. Miller, K. T. Hill

A methodological investigation of Piaget's theory of object concept development in the sensory-motor period. *Journal of Experimental Child Psychology*, 9, 1:59-85.

With E. S. Bush

The effects of relevant and irrelevant labels on short-term memory in nursery school children. *Psychonomic Science*, 18, 4:228-29.

With D. J. Miller, C. Ternure

Habituation of visual fixations in human infants in a retroactive inhibition paradigm. *American Psychological Association Proceedings, 18th Annual Convention*, Washington, D.C., pp. 277-78.

COLES, MICHAEL G. H., Assistant Professor

Articles

With K. T. Strongman, R. E. Remington, P. E. Wookey

The effect of shock duration and intensity on the ingestion of food of varying palatability. *The Quarterly Journal of Experimental Psychology*, 22, 3:521-25.

COSTIN, FRANK, Professor

Articles

The optimal number of alternatives in multiple-choice achievement tests: some empirical evidence for a mathematical proof. *Educational and Psychological Measurement*, 30, 2:353-58.

Hostility and learning in an introductory psychology course. *Psychology in the Schools*, 7, 4:370-74.

DAVIS, JAMES H., Professor

Articles

With J. A. Hornik, J. P. Hornseth

Group decision schemes and strategy preferences in a sequential response task. *Journal*

of *Personality and Social Psychology*, 15: 397-408.

With P. A. Bates, S. M. Nealey

Long-term groups and complex problem solving. *Organizational Behavior and Human Performance*, 6:28-35.

DONCHIN, EMANUEL, Associate Professor

Articles

With D. B. D. Smith, L. Cohen, A. Starr

Auditory evoked potentials in man during selective binaural listening. *Electroencephalography and Clinical Neurophysiology*, 28: 146-52.

With N. Pappas

An event coder for evoked potential experiments. *Behavior Research Methods and Instrumentation*, 2:142-44.

With L. Cohen

Evoked potentials to stimuli presented to the suppressed eye in a binocular rivalry experiment. *Vision Research*, 10:103-6.

With D. B. D. Smith

The CNV and the late positive wave of the evoked potential. *Electroencephalography and Clinical Neurophysiology*, 29:201-3.

With E. Callaway, R. T. Jones

Auditory evoked response variability in schizophrenia. *Ibid.*, pp. 421-28.

Auditory evoked response variability in schizophrenia, II. The application of discriminant analysis. *Ibid.*, pp. 429-40.

With S. Sutton

The "psychological significance" of evoked responses: a comment on Clark, Butler, and Rosner. *Communications in Behavioral Biology*, 5:111-14.

EAGLY, ALICE H., Assistant Professor

Articles

Leadership style and role differentiation as determinants of group effectiveness. *Journal of Personality*, 38:509-24.

ERIKSEN, CHARLES W., Professor

Articles

With B. B. Becker, J. E. Hoffman

Safari to masking land: a hunt for the elusive U. *Perception and Psychophysics*, 8, 4: 245-50.

With H. W. Hake, S. Wall

A forced-choice study of edge detectors in the human visual system. *Ibid.*, 9:247-52.

With R. L. Colegate

Identification of forms at brief durations when seen in apparent motion. *Journal of Experimental Psychology*, 84, 1:137-40.

Implicit speech as an encoding mechanism in visual perception. *Ibid.*, 83, 2:208-15.

With R. M. Hamkin, R. G. Breitmeyer

Temporal factors in visual perception as related to aging. *Perception and Psychophysics*, 7, 6:354-56.

With M. D. Pollack, W. E. Montague

Implicit speech: mechanism in perceptual encoding? *Journal of Experimental Psychology*, 84, 3:502-7.

With J. W. Rohrbaugh

Some factors determining efficiency of selective attention. *The American Journal of Psychology*, 83, 3:330-42.

Visual masking in multielement displays. *Journal of Experimental Psychology*, 83, 1:147-54.

FISHBEIN, MARTIN, Professor

Articles

With I. Ajzen, R. Darroch, J. Hornick

Looking backward revisited: a reply to Deutscher. *The American Sociologist*, 5:267-73.

With I. Ajzen

The prediction of behavior from attitudinal and normative variables. *Journal of Experimental Social Psychology*, 6: 466-87.

GOLDING, STEPHEN L., Assistant Professor

Articles

With E. Lichtenstein

Confession of awareness and prior knowledge of deception as a function of interview set and approval motivation. *Journal of Personality and Social Psychology*, 14:213-23.

GRAEN, GEORGE B., Assistant Professor

Articles

With K. Alvares, J. B. Orris, J. Martella

The contingency model of leadership effectiveness: antecedent and evidential results. *Psychological Bulletin*, 74:285-96.

Book Reviews

Motivation through the work itself, by Robert N. Ford. *Contemporary Psychology*, 15:291-94.

GREENBERG, GORDON Z., Associate Professor

Articles

With N. W. Bray, D. S. Beasley

Children's frequency-selective detection of signals in noise. *Perception and Psychophysics*, 8, 173-75.

With W. D. Larkin

Selective attention in uncertain frequency detection. *Ibid.*, pp. 179-84.

With A. I. Schulman

Operating characteristics and a priori probability of the signal. *Ibid.*, pp. 317-20.

GREENOUGH, WILLIAM T., Assistant Professor

Articles

With J. K. Fulcher, A. Yuwiler, E. Geller

Enriched rearing and chronic electroshock: effects on brain and behavior in mice. *Physiology and Behavior*, 5, 3:371-73.

HAKE, HAROLD W., Professor

Articles

With A. E. Myers

Familiarity and shape constancy. *Journal of Experimental Psychology*, 30:205-14. 1969.

With S. Wall, C. W. Eriksen

A forced-choice study of edge detectors in the human visual system. *Perception and Psychophysics*, 9:247-52.

HAMLIN, ROY M., Professor

Articles

Intellectual function 14 years after frontal lobe surgery. *Cortex*, 6:299-307.

The stability of intellectual function in chronic schizophrenia. *The Journal of Nervous and Mental Disease*, 149, 6:496-503.

With C. W. Eriksen, R. G. Breitmeyer

Temporal factors in visual perception as related to aging. *Perception and Psychophysics*, 7, 6:354-56.

With M. Lorr

Estimation of the major psychotic disorders by

objective test scores. *The Journal of Nervous and Mental Disease*, 151, 3:219-24.

HILL, KENNEDY T., Associate Professor

Articles

With H. W. Stevenson

Effectiveness of social and visual reinforcement following social and non-social deprivation. *Journal of Experimental Research in Personality*, 4, 2:100-7.

With L. B. Cohen, D. J. Miller

A methodological investigation of Piaget's theory of object concept development in the sensory-motor period. *Journal of Experimental Child Psychology*, 9:1:59-85.

With J. B. Dusek

Probability learning as a function of sex of the subject, test anxiety, and percentage of reinforcement. *Developmental Psychology*, 3, 2:195-207.

HIRSCH, JERRY, Professor

Articles

Behavior-genetic analysis in animals and man. In *Biological training in the behavioral sciences*, ed. by Gerald E. McClearn, Stanford University, Stanford, California, pp. 27-30.

Behavior genetic analysis and its biosocial consequences. *Seminars in Psychiatry*, 2, 1: 89-105.

HUMPHREYS, LLOYD G., Professor

Articles

Analytical approach to the correlation between related pairs of subjects on psychological tests. *Psychological Bulletin*, 74, 2:149-52.

Research notes. *The British Journal of Educational Psychology*, 40, 1:72-74.

With L. R. Tucker, P. Dachler

Evaluating the importance of factors in any given order of factoring. *Multivariate Behavioral Research*, 5:209-15.

HUNT, J. McVICKER, Professor

Articles

Poverty versus equality of opportunity. In *Psychological factors in poverty*, ed. by V. L. Allen, Markham, Chicago, pp. 47-63.

Attentional preference and experience: I. Introduction. *Journal of Genetic Psychology*, 117:99-107.

With I. C. Uzgiris

Attentional preference and experience: II. An exploratory longitudinal study of the effects of visual familiarity and responsiveness. *Ibid.*, pp. 109-21.

With D. J. Greenberg, I. C. Uzgiris

Attentional preference and experience: III. Visual familiarity and looking time. *Ibid.*, pp. 123-35.

KAPPAUF, WILLIAM E., Professor

Articles

With F. R. Yeatman

Visual on- and off-latencies and handedness. *Perception and Psychophysics*, 8, 1:46-50.

LAUGHLIN, PATRICK R., Associate Professor

Articles

Selection versus reception concept-attainment paradigms as a function of memory, concept rule, and concept universe. *Journal of Educational Psychology*, 60, 4:267-73.

Information specification in the attainment of conditional concepts. *Journal of Experimental Psychology*, 79, 2:370-72.

With L. G. Branch, H. H. Johnson

Individual versus triadic performance on a complementary task as a function of initial ability level. *Journal of Personality and Social Psychology*, 12, 2:144-50.

With R. M. Laughlin

Source effects in the judgment of social argot. *Journal of Social Psychology*, 78:249-54.

With I. L. Moss, S. M. Miller

Information-processing in children as a function of adult model, stimulus display, school grade, and sex. *Journal of Educational Psychology*, 60, 3:188-93.

LEWIS, CHARLES, Assistant Professor

Articles

With J. C. Baird, D. Romer

Relative frequencies of numerical responses in ratio estimation. *Perception and Psychophysics*, 8, 5B:358-62.

MAIER, STEVEN F., Assistant Professor

Articles

Failure to escape traumatic electric shock: incompatible skeletal-motor responses or learned helplessness? *Learning and Motivation*, 1, 2:157-69.

MALPASS, ROY S., Assistant Professor

Reviews

Methods for experimental social innovation, by George W. Fairweather. *American Journal of Psychology*, 83, 2:302-3.

McGRATH, JOSEPH E., Professor

Books Edited

Social and psychological factors in stress. Holt, Rinehart and Winston, New York, pp. 352.

Articles

Introduction in *Social and psychological factors in stress*, ed. by J. E. McGrath, *Ibid.*, pp. 1-9.

A conceptual formulation for research on stress. *Ibid.*, pp. 10-21.

Major substantive issues: time, setting, and the coping process. *Ibid.*, pp. 22-40.

Major methodological issues. *Ibid.*, pp. 41-57.

Settings, measures, and themes: An integrative review of some research on social-psychological factors in stress. *Ibid.*, pp. 58-96.

Some strategic considerations for future research on social-psychological stress. *Ibid.*, pp. 348-52.

With N. J. Vidmar

Forces affecting success in negotiation groups. *Behavioral Science*, 15, 2:154-63.

MEAD, WILLIAM R., Assistant Professor

Articles

With M. B. Pritz, R. G. Northcutt

The effects of Wulst ablations on color, brightness and pattern discrimination in pigeons (*Columba livia*). *Journal of Comparative Neurology*, 140:81-100.

MILLER, ARNOLD L., Assistant Professor

Articles

Treatment of a child with Gilles de la Tourette's Disease using behavior modification techniques. *Journal of Behavior Therapy and Experimental Psychiatry*, 1, 4:305-7.

MONTAGUE, WILLIAM E., Associate Professor

Articles

With W. A. Hillix, H. O. Kiess, R. Harris

Variation in reports of covert rehearsal and

in STM produced by differential payoff. *Journal of Experimental Psychology*, 83, 2: 249-54.

With A. J. Wearing

A test of the Battig procedure for controlling the level of individual item learning in paired-associate lists. *Behavior Research Methods and Instrumentation*, 2:9-10.

With C. B. Walker, A. J. Wearing

Natural language associability in paired-associate learning. *Journal of Experimental Psychology*, 84:264-67.

With C. W. Eriksen, M. D. Pollack

Implicit speech: mechanism in perceptual encoding? *Ibid.*, pp. 502-7.

With A. J. Wearing, C. B. Walker

Syntactic structure and natural language mediation. *Psychonomic Science*, 19, 6:348.

MOWRER, O. HOBART, Research Professor

Articles

Bewusstsein und soziale Wirklichkeit. In *Struktur und Dynamik des menschlichen Verhaltens*, ed. by O. W. Haseloff, Verlag W. Kohlhammer, Berlin, pp. 54-69.

The neurotic paradox. In *Psychopathology today*, ed. by W. S. Sahakian, F. E. Peacock, Inc., Itasca, Illinois, pp. 115-122.

Social alienation and reintegration. *Journal of Psychological Researches*, 14:1-3.

The problem of good and evil empirically considered, with reference to psychological and social adjustment. *Zygon: Journal of Science and Religion*, 4:301-14. 1969.

Conflict, contract, conscience, and confession. *Mental Health Digest*, 2:23-26.

O'CONNOR, ROBERT D., Assistant Professor

Articles

Modification of social withdrawal through symbolic modeling. *Journal of Applied Behavior Analysis*, 2, 1:15-23.

With J. Rappaport

Application of social learning principles to the training of ghetto blacks. *American Psychologist*, 25, 7:659-61.

OSGOOD, CHARLES E., Professor

See Communications Research, Institute of.

PAUL, GORDON L., Professor

Articles

With B. R. Wagner

Reduction of incontinence in chronic mental patients: a pilot project. *Behavior Therapy and Experimental Psychiatry*, 1:29-38.

With R. W. Trimble

Recorded vs. "live" relaxation training and hypnotic suggestion: comparative effectiveness for reducing physiological arousal and inhibiting stress response. *Behavior Therapy*, 1:285-302.

With M. B. Evans

Effects of hypnotically suggested analgesia on physiological and subjective responses to cold stress. *Journal of Consulting and Clinical Psychology*, 35:362-71.

RAPPAPORT, JULIAN, Assistant Professor

Articles

Nonprofessionals, B.A.s and manpower. *American Psychologist*, 25, 4:361.

With E. L. Cowen, J. Huser, D. R. Beach

Parental perceptions of young children and their relation to indices of adjustment.

Journal of Clinical and Consulting Psychology, 34, 1:97-103.

With E. L. Cowen, J. M. Chinsky

An undergraduate practicum in community mental health. *Community Mental Health Journal*, 6, 2:91-100.

With J. M. Chinsky

Brief critique of the meaning and reliability of accurate empathy ratings. *Psychological Bulletin*, 73, 5:379-82.

Behavior ratings of chronic hospitalized patients: cross-situational and cross-rater agreement. *Journal of Consulting and Clinical Psychology*, 34:394-97.

Attitude change in college students and chronic patients: a dual perspective. *Ibid.*, 35, 3: 388-94.

With R. D. O'Connor

Application of social learning principles to the training of ghetto blacks. *American Psychologist*, 25:659-61.

Reviews

Community life for the mentally ill: an alternative to institutionalization, by G. W. Fairweather, D. H. Sanders, D. Cressler, H. Maynard. *Psychotherapy: Theory, Research and Practice*, 7, 3:192-93.

RENNER, K. EDWARD, Professor

Articles

With R. Cravens

Conditioned appetitive drive states: empirical evidence and theoretical status. *Psychological Bulletin*, 73, 3:212-20.

With B. Moore

Comparison of the relative strength of an incentive based on partial and continuous reward. *Journal of Experimental Psychology*, 83, 2:255-59.

ROSCOE, STANLEY N., Professor

See Aviation, Institute of.

SCOTT, KEITH G., Associate Professor

See Children's Research Center.

SPRAGUE, ROBERT L., Associate Professor

See Children's Research Center.

STEINMAN, WARREN M., Assistant

Professor

Articles

Generalized imitation and the discrimination hypothesis. *Journal of Experimental Child Psychology*, 10, 1:79-99.

The social control of generalized imitation. *Journal of Applied Behavior Analysis*, 3: 25-33.

Is free play free? *Educational Product Report*, 3:6-8.

TATSUOKA, MAURICE M., Professor

See Education.

TRAHIOTIS, CONSTANTINE, Assistant

Professor

Articles

With D. N. Elliott

Behavioral investigation of some possible effects of sectioning the crossed olivocochlear bundle. *Journal of Acoustical Society of America*, 47:592-96.

An extension of the Neff Neural Model to situations demanding discriminations among complex stimuli. *Ibid.*, pp. 1116-27.

TRIANDIS, HARRY C., Professor

Articles

With M. Fishbein, E. Hall, A. V. Shanmugan, Y. Tanaka

Affect and behavioral intentions. In *Contributions to psychology*, ed. by A. K. P. Sinha, H. K. Misra, S. A. K. Kanth, and S. K. S. Rao, Institute for Social and Psychological Research, New Delhi, pp. 28-52.

Cross-cultural research and the analysis of subjective culture. *Cross-Cultural Social Psychology Newsletter*, 4:1-2.

TUCKER, LEDYARD R., Professor

Articles

With L. G. Humphreys, P. Dachler

Evaluating the importance of factors in any given order of factoring. *Multivariate Behavioral Research*, 5, 2:209-15.

ULLMANN, LEONARD P., Professor

Articles

Teaching for growth. In *Students: top priority*, ed. by A. K. Tink, Interstate, Danville, Illinois, pp. 23-31.

Beyond the reinforcement machine. In *Behavior change in counseling: readings and cases*, ed. by S. H. Osipow and W. B. Walsh, Appleton-Century-Crofts, New York, pp. 35-44.

From therapy to reality. *Counseling Psychologist*, 1, 4:68-72.

On cognitions and behavior therapy. *Behavior Therapy*, 1, 2:201-4.

On behavior therapy. *Voices: The Art and Science of Psychotherapy*, 5, 4:13-17.

With L. Gurel

Size, staffing, and psychiatric hospital effectiveness. In *Program evaluation in the health fields*, ed. by H. C. Schulberg, A. Sheldon, and F. Baker. Behavioral Publications, New York, pp. 438-51.

Reviews

Principles of behavior modification, by A. Bandura. *Behavior Therapy*, 1, 1:132-33.

The relation of theory to practice in psychotherapy, ed. by L. D. Eron and R. Callahan. *Journal of Projective Techniques and Personality Assessment*, 34, 1:72-73.

Psychiatry and the community in nineteenth century America, by R. B. Caplan with G. Caplan. *Journal of Projective Techniques and Personality Assessment*, 34, 5:440.

WICKER, ALLAN W., Assistant Professor

Articles

Attitudes versus actions: the relationship of verbal and overt behavioral responses to attitude objects. *Journal of Social Issues*, 25, 4:41-78.

Processes which mediate behavior-environment congruence. *Proceedings of the Environmental Design Research Association Conference*, 2:258-68.

With G. Bushweiler

Perceived fairness and pleasantness of social exchange situations: two factorial studies of inequity. *Journal of Personality and Social Psychology*, 15, 1:63-75.

WIGGINS, JERRY S., Professor

Men's preferences for different types of female figures. *Medical Aspects of Human Sexuality*, 4.

WIGGINS, NANCY, Associate Professor

See Communications Research, Institute of.

WILLIGES, ROBERT C., Assistant Professor

See Aviation, Institute of.

DOCTORAL DISSERTATIONS

Allen, George J. (D. R. Peterson, Adviser), The effectiveness of study counseling and desensitization in alleviating test anxiety in college students.

Allen, Jon S. (L. A. Jakobovits, Adviser), Associative strategies, defensive style, and paired associate learning: a therapy analogue.

Alvares, Kenneth M. (C. L. Hulin, Adviser), The effects of complex skill acquisition on measures of ability.

Blackburn, Margaret C. (N. A. Wiggins, Adviser), A multivariate study of some sources of person perception structure.

Blaylock, Barbara A. H. (J. McV. Hunt, Adviser), Some antecedents of directional fractionation.

Borkovec, Thomas D. (D. A. Bernstein, Adviser), The comparative effectiveness of systematic desensitization and implosive therapy and the effect of expectancy manipulation on the elimination of fear.

Brennan, Sheila L. (L. P. Ullmann, Adviser), Modeling and impression management in male process schizophrenics.

Collins, James F. (C. W. Eriksen, Adviser), Correlations in sensitivity on different foveal areas.

Cooper, Lee G. (L. R. Tucker, Adviser), Metric multidimensional scaling and the concept of preference.

Crabb, Lawrence J., Jr. (J. J. O'Neill, Adviser), The effects of stress versus punishment on disfluency.

Craighead, Wade E. (D. A. Bernstein, Adviser), The role of muscular relaxation in systematic desensitization.

Hoffman, Melvin M. (J. S. Werry, Adviser), Conditioned aggression and conditioned punishment.

Johnson, Charles D. (J. H. Davis, Adviser), Risk-taking, decision strategy and personality.

Johnson, Sarah A. (L. P. Ullmann, Adviser), A comparison of mother versus child groups and traditional versus behavior modification procedures in the "treatment" of disobedient children.

Kaplan, Melissa G. (K. T. Hill, Adviser), The effects of social reinforcement and sex of peer reinforcing agent on the performance of boys and girls as a function of pretraining experience.

Kauffmann, Duane R. (I. D. Steiner, Adviser), The dissonance-incentive controversy: a study of subject perceptions.

Lekarczyk, Dorothy T. (K. T. Hill, Adviser), Chronological age and mental age in discrimination learning under reinforcement delay.

Lohss, William E. (R. M. Hamlin, Adviser), Effects of the presence of another person in evaluative and nonevaluative roles on the performance of psychiatric patients and non-patients.

May, Joan S. (R. L. Sprague, Adviser), The effects of an amphetamine on measures of intelligence and learning in mentally retarded adults.

Montanelli, Dale S. (M. W. Weir, Adviser), Multiple cue learning in children.

Nelson, Thomas O. (W. H. Batchelder, Adviser), An investigation of the forgetting process in long-term memory: benefits of re-learning over original learning.

- Newman, L. Michael (L. O'Kelly, Adviser), The effects of cholinergic agonists and antagonists on self-stimulation behavior in rats.
- O'Connor, Robert D. (D. R. Peterson, Adviser), Modification of social withdrawal through modeling, shaping, and combined treatments: a comparative study.
- Olson, Richard P. (C. S. Moss, Adviser), The effects of motivation and expectation upon hypnotic susceptibility: a reappraisal.
- Owen, Terry W. (R. M. Hamlin, Adviser), The effects of social stimuli on schizophrenic performance and satisfaction.
- Payne, Frank D. (J. S. Wiggins, Adviser), Structured personality inventory items: test-retest response consistency and item properties.
- Pieszko, Henry J. (W. H. Batchelder, Adviser), Multidimensional scaling in riemann space.
- Reagar, Pamela A. (W. M. Gilbert, Adviser), Delinquency, socialization, and type of social reinforcement.
- Schurman, Donald L. (C. W. Eriksen, Adviser), Dark intervals as stimulus events and their effect on visual masking and time-intensity reciprocity.
- Smiley, Sandra S. (N. W. Weir, Adviser), The effects of cue transiency and positive and negative outcomes on performance in a modified learning-set task.
- Smith, Ronald G. (D. E. Dulany, Adviser), Functions of intense stimulation in the reduction of schizophrenic performance deficit.
- Sobel, Robert S. (I. D. Steiner, Adviser), Tests of pre-goal and post-goal models of satisfaction with outcomes.
- Urbano, Richard C. (K. G. Scott, Adviser), Individual differences in the dichotic listening performance of mentally retarded children.
- West, Roger W. (W. R. Mead, Adviser), Electron microscopy of normal and degenerated ground squirrel retina.
- Whitehurst, Grover J. (S. W. Bijou, Adviser), Novel verbal behavior and language structure: a functional and theoretical analysis.
- Wood, Michael T. (H. C. Triandis, Adviser), Some determinants and consequences of power distribution in decision-making groups.

RADIO AND TELEVISION

MULLALLY, DONALD P., Assistant Professor

Articles

- The fairness doctrine: benefits and costs. *Public Opinion Quarterly*, 33, 4:577-82.
- Broadcasting and social change. *Quarterly Journal of Speech*, 56, 1:40-44.
- CATV: where do we grow from here? *Illinois Bar Journal*, 58, 12:954-61.

RECREATION AND PARK ADMINISTRATION

BANNON, JOSEPH J., Assistant Professor

Articles

- Do's and don'ts of citizen involvement in good park and recreation programs. *The American City*, 86, 2:20.
- The organization and operation of a youth recreation corps. In *Proceedings for the 1969 congress for recreation and parks*, National Recreation and Park Association, Washington, D.C., p. 161.

The supervisor — who is he. *Illinois Park and Recreation Quarterly*, 5, 1:12.

Bulletins and Technical Reports

With E. H. Storey

- Guidelines for recreation and park systems. Cooperative Extension Service, University of Illinois, Urbana-Champaign, Circular 1017.

BISHOP, DOYLE W., Assistant Professor

Articles

- Stability of the factor structure of leisure behavior: analyses of four communities. *Journal of Leisure Research*, 2, 3:160-70.
- With P. A. Witt
- Situational antecedents to leisure behavior. *Ibid.*, 1:64-77.
- Sources of behavioral variance during leisure time. *Journal of Personality and Social Psychology*, 1970, 16:352-60.
- With M. Ikeda
- Status and role factors in the leisure behavior of different occupations. *Sociology and Social Research*, 54:190-208.

Bulletins and Technical Reports

With R. Aukerman

- Water quality criteria for selected recreational uses. Water Resources Center, Urbana, Illinois.

ELLIS, MICHAEL J., Research Assistant Professor

Articles

- The effects of proprioceptive feedback from speech on the performance of a motor task. In *Contemporary psychology of sport*, The Athletic Institute, Chicago, pp. 597-605.
- Proprioceptive factors in operative timing. *Ibid.*, pp. 607-16.
- With A. W. Hubbard
- Serial analyses of variance on repeated measures. *Ibid.*, pp. 815-25.

Reviews

- Planning environments for young children: physical space, by Sybil Kritchevsky and Elizabeth Prescott with Lee Walling. *Land-scape Architecture*, 1970, 61:114.

GRAMZA, ANTHONY F., Assistant Professor

Articles

- Preferences of preschool children for enterable play boxes. *Perceptual and Motor Skills*, 31: 177-78.
- Vocal mimicry in captive Budgerigars (*Melopsittacus undulatus*). *Zeitschrift Für Tierpsychologie*, 27:971-83.
- With P. A. Witt
- Position effects in play equipment preferences of nursery school children. *Perceptual and Motor Skills*, 31:431-34.

JUBENVILLE, ALAN, Assistant Professor

Bulletins and Technical Reports

With T. McGuire

- A preliminary proposal for new employee orientation and staff in-service training for the Illinois State Department of Conservation. University of Illinois, Urbana, 51 pp.

MARTENS, RAINER, Assistant Professor

Articles

- Subject and experimenter errors in behavioral research with particular reference to motor behavior. *Journal of Motor Behavior*, 2:52-67.

- A social psychology of physical activity. *Quest*, 14:8-17.
- Social reinforcement effects on preschool children's motor performance. *Perceptual and Motor Skills*, 31:787-92.
- The influence of participation motivation on success and satisfaction in team performance. *Research Quarterly*, 41:510-18.
- Effect of an audience on learning and performance of a complex motor skill. In *Contemporary psychology of sport*, ed. by G. Kenyon, Athletic Institute, Chicago, pp. 317-24.
- With D. M. Landers*
Motor performance under stress: a test of the inverted-U hypothesis. *Journal of Personality and Social Psychology*, 16:29-37.
- With G. C. Roberts*
Social reinforcement and complex motor performance. *Research Quarterly*, 41:175-81.

PEZOLDT, CHARLES W., Assistant Professor

Articles

- Professional salary hang-ups. *Illinois Park and Recreation Quarterly*, 15:4-5.
- Professional problem identification. *Ibid.*, p. 3.
- Illinois Park and Recreation Society organizational plans for 1970. *Illinois Park and Recreation Society Printed Newsletter*, 1970, February:1.
- A review of professional society expansion alternatives for the State of Illinois recreation and park practitioners. *Ibid.*, May: 1-4.
- The suburbs today. In *Proceedings of congress for recreation and parks*, National Recreation and Park Association, Washington, D.C., pp. 72-74.

Bulletins and Technical Reports

- Recreation program appraisal for Skokie Park District, Skokie, Illinois. University of Illinois, Urbana, 89 pp.
- Leisure behavior, attitude and opinion study for Homewood-Flossmoor Park District, Homewood, Illinois. University of Illinois, Urbana, 136 pp.

VAN METER, JERRY R., Lecturer

Bulletins and Technical Reports

- A framework for outdoor recreation planning in Illinois. Illinois Department of Conservation, Springfield, 11 pp.
- Readings in outdoor recreation planning and environmental quality. *Ibid.*, 24 pp.

WADE, MICHAEL G., Assistant Professor

Articles

- With T. T. Craig*
Inter-trial response strategy of educable mentally handicapped children in learning time estimation. In *Contemporary psychology of sport*, Proceedings of the second international congress of sports psychology, The Athletic Institute, Chicago, pp. 507-10.

REHABILITATION-EDUCATION SERVICES

McLEAN, PATRICIA J., Assistant Professor

Articles

- With D. J. Tosi, C. Swanson*
Group counseling with nonverbalizing elementary school children. *Elementary School Guidance and Counseling*, 4:4, 260-66.

RESEARCH ON EXCEPTIONAL CHILDREN, INSTITUTE FOR

BABBINI, BARBARA E., Specialist in Education

Bulletins and Technical Reports

With S. P. Quigley

- A study of growth patterns in language, communication, and educational achievement in six residential schools for deaf students. Institute for Research on Exceptional Children, Urbana, Illinois, 56 pp.
- With S. P. Quigley, W. J. A. Marshall*
Educational and occupational status of young deaf adults in Illinois. *Ibid.*, 59 pp. 1969.

BIJOU, SIDNEY W., Professor

See Psychology.

CHALFANT, JAMES C., Associate Professor

Books

With M. A. Scheffelin

- Central processing dysfunctions in children: a review of research. NINDS Monograph no. 9, U.S. Government Printing Office, Washington, D.C., 148 pp. 1969.

Articles

- Group two report. In *Advanced institute for leadership personnel in learning disabilities*, ed. by Corinne Kass, U.S. Office of Education, Washington, D.C., pp. 23-37.

ELLIS, MICHAEL J., Assistant Professor

See Recreation and Park Administration.

GEIS, JONNIE E., Research Assistant Professor

Articles

- Lexical insertion of locative and time prepositions. In *Papers from the 6th regional meeting, Chicago Linguistics Society*, Chicago, pp. 226-34.

HURDER, WILLIAM P., Professor

Books

- Overview of research and education of handicapped children: the U.S.A., in the sixties. Institute for Research on Exceptional Children, Urbana, Illinois, 379 pp.

KARNES, MERLE B., Professor

Books

With A. S. Hodgins, J. A. Teska

- Research and development program on preschool disadvantaged children, vol. 1. ERIC Document Reproduction Service, Bethesda, Maryland, ED 036 663, 325 pp.

Articles

- Ameliorative preschool program. *Horizons*, 3, 1:1-2.
- The slow learner. *Today's Education*, 59, 3: 42-44.
- With J. A. Teska, A. S. Hodgins*

The effects of four programs of classroom intervention on the intellectual and language development of four-year-old disadvantaged children. *American Journal of Orthopsychiatry*, 40, 1:58-76.

The successful implementation of a highly specific preschool instructional program by paraprofessional teachers. *Journal of Special Education*, 4:69-80.

With J. A. Teska, A. S. Hodgins, E. D. Badger
Educational intervention at home by mothers

of disadvantaged infants. *Child Development*, 41:925-35.

QUIGLEY, STEPHEN P., Professor and Acting Director

Bulletins and Technical Reports

With B. E. Babbini

A study of the growth patterns in language, communication, and educational achievement in six residential schools for deaf students. Institute for Research on Exceptional Children, Urbana, Illinois, 56 pp.

With W. J. A. Marshall

Quantitative and qualitative analysis of syntactic structure in the written language of hearing impaired students. *Ibid.*, 121 pp.

With B. E. Babbini, W. J. A. Marshall

Educational and occupational status of young deaf adults in Illinois. *Ibid.*, 59 pp.

SALVIA, JOHN A., Assistant Professor

Articles

Four tests of color vision: a study of diagnostic accuracy with the mentally retarded. *American Journal of Mental Deficiency*, 74, 3:421-27. 1969.

With J. Shugerts

Color related behavior of mentally retarded children with color blindness and normal color vision. *Exceptional Children*, 37, 1: 37-38.

SCOTT, KEITH G., Associate Professor

See Children's Research Center.

**SCHOOL AND COLLEGE RELATIONS,
UNIVERSITY OFFICE OF**

ANDERSON, ERNEST F., Associate Professor of Higher Education and Coordinator of University-Junior College Relations

Books Edited

With C. J. Carlsen

A transfer handbook for junior college students, academic advisors, and counselors. University Office of School and College Relations, Champaign, Illinois, 106 pp.

CROTTS, GAIL G., Research Assistant and Editor

Articles

With R. J. Simon, L. Mahan

An empirical note about married women and their friends. *Social Forces*, 48, 4:520-25.

KEMP, JOHN S., Assistant University Coordinator of School and College Relations

Articles

What's negotiated? A survey of bargaining contracts. *Illinois School Board Journal*, 38, 6:14-18.

LOEB, JANE W., Assistant Professor of Educational Psychology and Coordinator of Research and Testing

Articles

Differences between retrieval cues in effectiveness as recall aids. *Psychonomic Science*, 21, 4:193-94.

With S. C. Davis, L. F. Robinson

A comparison of characteristics of Negro and white college freshman classmates. *Journal of Negro Education*, 34, 4:359-66.

With D. J. Mueller

The use of a scale of high schools in predicting college grades. *Educational and Psychological Measurement*, 30, 2:381-86.

THOMAS, SUSAN J. BAHLKE, Assistant Professor of Educational Psychology and Assistant Coordinator of Research and Testing

Articles

With P. J. Georgeoff, I. Jones

The effect of the curriculum on racial cleavage in integrated fourth grade classrooms. *Contemporary Education*, 41, 6:297-303.

With J. F. Feldhusen, D. J. Treffinger

Developing creative thinking: the Purdue creativity program. *Journal of Creative Behavior*, 4, 2:85-90.

The relationship between teachers' divergent thinking abilities and their ratings of pupils' creative thinking abilities. *Measurement and Evaluation in Guidance*, 3, 3: 169-76.

SLAVIC LANGUAGES AND LITERATURES

BRISTOL, EVELYN C., Associate Professor

Reviews

August Strindberg: a study in theme and structure, by Eric O. Johannesson; The Notebooks for *The Possessed*, edited and with an introduction by Edward Wasiolek; Selected passages from correspondence with friends, by Nikolai Gogol. *Modern Fiction Studies*, 15, 4:585-89.

Russia's underground poets, selected and translated by Keith Bosley, with Dimitry Pospelovsky and Janis Sapiets. *Slavic and East European Journal*, 14, 2:230-31.

DUNATOV, RASIO, Assistant Professor

Reviews

A dictionary of irregular Russian verb forms, by D. B. Powers. *Slavic Review*, 29, 2:354-55.

Russian: book one, and Russian: book two, by Joseph C. Doherty, and others. *Ibid.*, pp. 355-56.

GLADNEY, FRANK Y., Associate Professor

Articles

A note on pre-posed articles in Russian. *Slavic and East European Journal*, 14, 1: 33-35.

Reviews

Transformacni syntax soucasne rustiny, I, by Vl. Hrabe and P. Adamec. *Ceskoslovenska rusistika*, 15, 4:183-88.

The phonological development of Polish, by Z. Stieber. *General Linguistics*, 9, 3:22-25.

Slozhnoe predlozhenie v sovremennom ruskom jazyke, by V. A. Beloshapkova. *Slavic and East European Journal*, 14, 2:243-48.

HILL, STEVEN P., Associate Professor

Articles

A profile of the undergraduate Russian major. *Slavic and East European Journal*, 14, 1:54-66.

With J. Dunkelberger

Russian drama after Chekhov: a guide to English translations, 1900-1969. *Theatre Documentation*, 2, 1-2:85-108.

Reviews

Historical Russian Reader, by John Fennell and Dimitri Obolenski. *Modern Language Journal*, 54, 6:444.

In Russia, by Inge Morath and Arthur Miller. *Slavic Review*, 29, 4:755-56.

KLEIN, KURT A., Associate Professor
Articles

The EPDA Russian teachers institute at the University of Illinois. *Russian Language Journal*, 24, 88:20-28.

Reviews

Russian: a practical grammar with exercises, by I. Pulkina and Zakhava-Nekrasova. *Slavic and East European Journal*, 14, 2: 251-53.

PACHMUSS, TEMIRA A., Professor
Articles

Dnevnik Zinaidy Nikolaevny Hippus *O Byshem. La Renaissance*, 217:56-78; 218:52-70; 219:57-75; 220:53-75.

Introduction to Zinaida Hippus' unpublished diaries and annotation of their texts. *American Philosophical Society Year Book 1969*, Philadelphia, pp. 631-32.

Zinaida Hippus: Korichnevaya tetrad'. *La Renaissance*, 1970, 221:25-39.

Zinaida Hippus: *Vybor?* *Ibid.*, 222:50-77.

Zinaida Hippus: Obyasneniya i voprosy. *Ibid.*, 223:73-84.

Reviews

The notebooks for *The Possessed*, ed. with an introduction by Edward Wasiolek, tr. by Victor Terras. *The Russian Review*, 29, 1:109.

Carin Tschöpl, Vyačeslav Ivanov: Dichtung und Dichtungspoesie (Slavistische Beiträge, 30). *Slavic and East European Journal*, 19, 1:72-73.

The Penguin companion to literature, 2, ed. by Anthony Thorlby. *Ibid.*, 14, 3:366-67.

ZALUCKY, MARIA, Instructor

Articles

The hero-fighter in Solzhenitsyn's *The First Circle*. *Novoye Russkoye Slovo* (Sunday literary supplement), 21775, January, 1970.

The artistic truth of Solzhenitsyn. *Ibid.*, 22055, November, 1970.

DOCTORAL DISSERTATIONS

Coats, Herbert S., Jr. (T. M. Lightner, Adviser), Word stress assignment in a generative grammar of Russian.

Phillips, Roger W. (T. Pachmuss, Adviser), Dostoevskij's "underground" narrator: a study in the psychology and structure of contradiction.

SMALL HOMES COUNCIL—BUILDING RESEARCH COUNCIL

BROTHERSON, DONALD E., Research Associate Professor of Architecture

Articles

The specifying agency and roofing technology. *Roofing/Siding/Insulation*, 46, 12:28-30, 1969.

Moisture and vapor effects on built-up roofing. *Ibid.*, 3:37-40.

Thermal comfort. In *25th Annual Short Course in Residential Construction*, University of Illinois, Small Homes Council—Building Research Council, Urbana-Champaign, pp. 51-56.

Bulletins and Technical Reports

Annual electrical operating costs for two elementary schools. Small Homes Council—

Building Research Council, University of Illinois, Urbana-Champaign, *Research Report 69-1*, 17 pp. 1969.

Insulation for heating. *Ibid.*, *Technical Note no. 3*, 1969.

Reducing operating costs in school heating systems. *Ibid.*, *Research Report 70-1*, 19 pp.

JONES, RUDARD A., Director and Research Professor of Architecture

Books

Basic construction and materials takeoff (rev. ed.). Small Homes Council—Building Research Council, University of Illinois, Urbana-Champaign, 247 pp. 1969.

Articles

Who is doing the building? In *24th annual short course in residential construction*, Small Homes Council—Building Research Council, University of Illinois, Urbana-Champaign, pp. 6-9, 1969.

Planning for more space. *Ibid.*, pp. 21-26.

The safer home—will it come to be? *National Safety Congress Transactions*, 28: 23-27, 1969.

Superior construction. In *25th annual short course in residential construction*, Small Homes Council—Building Research Council, University of Illinois, Urbana-Champaign, pp. 23-29.

The storage truss—design criteria. *Ibid.*, pp. 86-87.

Bulletins and Technical Reports

Nail-glued "w" roof truss, 5/12 slope. *Ibid.*, *Instruction Sheet no. 16*.

With H. R. Spies

Plumbing (rev. ed.). *Ibid.*, *Circular Series G5.0*, 12 pp. 1969.

KAPPLE, WILLIAM H., Research Associate Professor of Architecture

Articles

Updating the kitchen. In *24th annual short course in residential construction*, Small Homes Council—Building Research Council, University of Illinois, Urbana-Champaign, pp. 16-20, 1969.

Quality planning features. In *25th annual short course in residential construction*. *Ibid.*, pp. 30-38.

Bulletins and Technical Reports

Garages and carports (rev. ed.). *Ibid.*, *Circular Series C5.9*, 6 pp. 1969.

PERCIVAL, DONALD H., Research Associate Professor of Wood Technology

Articles

Strengthen a new house by gluing the subfloor. *Illinois Research*, 11, 1:5, 1969.

Wood engineering review. *Forest Products Journal*, 19, 9:111-22, 1969.

Subfloor and underlayment application. In *24th annual short course in residential construction*, Small Homes Council—Building Research Council, University of Illinois, Urbana-Champaign, pp. 45-49, 1969.

Progress report—strength of the truss plates on fire-retardant treated wood. In *25th annual short course in residential construction*. *Ibid.*, pp. 82-85.

The storage truss—test program. *Ibid.*, pp. 93-96.

Bulletins and Technical Reports

Converting a concrete slab to a wood subfloor. *Ibid.*, *Technical Note no. 4*, 4 pp. 1969.

SHICK, WAYNE L., Research Professor of Architecture

Articles

Storage extras. In *25th annual short course in residential construction*, Small Homes Council-Building Research Council, University of Illinois, Urbana-Champaign, pp. 39-42.

SPIES, HENRY R., Editor

Articles

The low-cost single-family house. In *24th annual short course in residential construction*, Small Homes Council-Building Research Council, University of Illinois, Urbana-Champaign, pp. 63-66. 1969.

The low-cost house. In *25th annual short course in residential construction*. *Ibid.*, pp. 78-81.

Bulletins and Technical Reports

With R. A. Jones

Plumbing. *Ibid.*, *Circular Series G5.0*, 12 pp. 1969.

WANSLOW, ROBERT, Research Associate

Articles

Plastic surgery for housing. In *24th annual short course in residential construction*, Small Homes Council-Building Research Council, University of Illinois, Urbana-Champaign, pp. 57-61. 1969.

Bulletins and Technical Reports

Maintaining the home. *Ibid.*, *Circular Series A1.5*, 8 pp. 1969.

Business dealings. *Ibid.*, *Circular Series A2.0*, 8 pp. 1969.

SOCIAL WORK

ANDERSON, RICHARD J., Associate Professor

Articles

Fact or fiction—teamwork in pupil personnel services. In *Midwest school social work conference reports (third annual report)*, Midwest School Social Work Conference, Minneapolis, Minnesota, p. 8.

Bulletins and Technical Reports

With L. Patton, V. Murk, L. Costin, G. Tosby
School Social Work in Illinois. *Superintendent of Public Instruction*, Springfield, Illinois, 42 pp.

BRIELAND, DONALD, Professor

Articles

Black identity and the helping person. *Children*, 16, 5:171-76.

With A. S. Desai

An empirical study of first-year foreign students—implications for social work education in the United States. *Social Work Education Reporter*, 18, 3:36-40.

Rehabilitation psychologists in the seventies. *Psychological Aspects of Disability*, 17, 3:159-61.

Reviews

Ethics, politics, and social research, ed. by G. Sjöberg, *Social Work*, 15, 2:131.

COSTIN, LELA B., Professor

Articles

Adoption of children by single parents. *Child Adoption (British)*, 59, 1:31-33.

New directions in the licensing of child-care facilities. *Child Welfare*, 49, 2:64-71.

Reviews

Research and development program on pre-school disadvantaged children, 3 volumes. Vol. 1, Investigations of classroom and at-home interventions; vol. 2, Curriculum development and evaluation; vol. 3, Community kinship and competence, by Merle B. Karnes and others. *Social Service Review*, 44, 3:375-76.

HALE, MARK P., Professor and Director of Department

Articles

Purchase of care and services in health and welfare—possible implications for social work education. In *Proceedings of Milwaukee Institute on Social Welfare Issues of the Day*, University of Wisconsin at Milwaukee, pp. 79-88.

HENDERSON, CHARLES H., Associate Professor and Assistant Director

Articles

Consumer participation in mental health. *Iowa Journal of Social Work*, 3, 4:97-99.

ITZIN, FRANCIS H., Professor

Articles

Social relations. *The daily needs and interests of older people*, ed. by Adeline M. Hoffman, Charles C. Thomas Co., Springfield, Illinois, pp. 137-64.

MONKMAN, MARJORIE McQUEEN, Associate Professor

Articles

Remediation of the conduct problem child in the special class setting. In *The emotionally disturbed child*, ed. by Larry A. Faas, Charles C. Thomas Co., Springfield, Illinois, pp. 303-16.

TABER, MERLIN A., Professor

Articles

Welfare recommendations of the National Advisory Committee on Civil Disorders, and ADC in Illinois. In *The Kerner Report revisited*, ed. by P. Meranto, Institute of Government and Public Affairs, University of Illinois, Urbana, pp. 31-44.

Social Work as interference in problem definitions. *Applied Social Studies*, 2:59-68.

With A. J. Vattano

Clinical and social orientations in social work: an empirical study. *Social Service Review*, 44, 1:34-43.

With D. G. Baker

Testing innovation in practice: an experiment in continuing education. *Social Work Education Reporter*, 18, 1:42-44.

VATTANO, ANTHONY J., Associate Professor

Articles

With M. A. Taber

Clinical and social orientations in social work: an empirical study. *Social Service Review*, 44, 1:34-43.

SOCIOLOGY

BORDUA, DAVID J., Professor

Articles

With E. W. Haurek

The police budget's lot: expenditures on local police, 1992-1960. *American Behavioral Scientist*, 13, 5-6:667-80.

CHOLDIN, HARVEY M., Associate Professor

Books

A manual for surveys of fertility and family planning: knowledge, attitudes and practices. The Population Council, New York, 403 pp.

Reviews

Village community projects in India: origin, development and problems, by V. P. Pande, *Journal of Asian Studies*, 29:723-24.

Culture and change in India: the Barpali experiment, by Thomas M. Fraser, Jr. *Ibid.*, pp. 965-66.

FARBER, BERNARD, Professor

Articles

Studying family and kinship. In *Pathways to data*, ed. by Habenstein, Aldine Press, Chicago, pp. 50-80.

Marriage law, kinship paradigms, and family stability. In *Images and counterimages of young families*, ed. by Presvelou and De Bie, International Scientific Commission on the Family, Louvain, Belgium, pp. 79-113.

Family. *Encyclopedia Americana*, vol. 11, pp. 2-7.

Heider's "Anthropological models of incest laws in the United States": a comment. *American Anthropologist*, 72:846-47.

FLIEGEL, FREDERICK C., Professor

Articles

With P. Roy

The conduct of collaborative research in developing nations: the insiders and the outsiders. *International Social Science Journal*, 22, 3:505-23.

GORECKI, JAN, Professor

Books

Divorce in Poland—a contribution to the sociology of law. Mouton, The Hague, Paris, 156 pp.

Articles

Kommunistische Familienstruktur: Die Rechtsprechung als Instrument des Wandels. In *Soziologie der Familie*, ed. by Lüschen and Lupri, Westdeutscher Verlag, Opladen, pp. 490-507.

Women and the law—from a different viewpoint. *Family Law Quarterly*, 4, 1:13-18.

JACOBS, NORMAN G., Professor

Reviews

Social change and history: aspects of the western theory of development, by Robert A. Nisbet. *American Journal of Sociology*, 75, 5:874-76.

JOHNSON, HARRY M., Professor

Articles

Soziologie der Familien und Verwandtschaftssysteme. In *Soziologie der Familie*, ed. by Lüschen and Lupri, Westdeutscher Verlag, Opladen, pp. 32-48.

Reviews

Modern systems research for the behavioral scientist, ed. by Walter Buckley. *American Sociological Review*, 34:102-3.

Causation and functionalism in sociology, by Wsevolod W. Isajiw. *Social Forces*, 47:480.

KARSH, BERNARD, Professor

See Labor and Industrial Relations.

KRONUS, SIDNEY J., Assistant Professor

Articles

Some neglected aspects of negro class comparisons. *Phylon*, 31, 4:359-71.

With J. Gusfield, H. Mark

The urban context and higher education. *The Journal of Higher Education*, 41, 1:29-43.

Reviews

The vertical ghetto: everyday life in an urban project, by William R. Moore, Jr. *Social Forces*, 48, 4:546.

LUESCHEN, GUENTHER R. F., Associate Professor

Books Edited

The cross-cultural analysis of sport and games. Stipes Publishing Co., Champaign, Illinois, 192 pp.

With E. Lupri

Soziologie der Familie. Westdeutscher Verlag, Opladen, 527 pp.

Articles

Familie und Verwandtschaft. Interaktion und die Funktion von Ritualen. In *Soziologie der Familie*, ed. by Lüschen and Lupri, *Ibid.*, pp. 270-84.

Sociology of sport and the cross-cultural analysis of sport and games. In *The cross-cultural analysis of sport and games*, ed. by G. Lüschen, Stipes Publishing Co., Champaign, Illinois, pp. 5-13.

Soziologie des sports. In *Jugend und Sport*, ed. by H. Groll and H. Strohmeier, Bundesverlag, Wien, pp. 158-68.

Cooperation, association and contest. *Journal of Conflict Resolution*, 14, 1:21-34.

With E. Lupri

Die theoretische und methodische Bedeutung der Familiensoziologie. In *Soziologie der Familie*, ed. by Lüschen and Lupri, Westdeutscher Verlag, Opladen, pp. 9-19.

Reviews

The sociology of small groups, by Theodore M. Mills. *Kölner Zeitschrift für Soziologie*, 21, 4:889-91.

McPHAIL, CLARK, Assistant Professor

Reviews

A time to burn? by L. H. Masotti, and others. *Social Forces*, 49, 2:335-36.

ORUM, ANTHONY M., Assistant Professor

Articles

Religion and the rise of the radical white: the case of the Wallace vote in 1968. *Social Science Quarterly*, 51, 3:674-88.

With E. W. McCranie

Class, tradition and partisan alignments in a southern urban electorate. *Journal of Politics*, 32, 1:156-76.

Reviews

Black intellectuals come to power: the rise of Creole nationalism in Trinidad and Tobago, by Ivar Oxaal. *Social Forces*, 49, 1:150.

PORTES, ALEJANDRO, Assistant Professor

Articles

Leftist radicalism in Chile: a test of three hypotheses. *Comparative politics*, 2:251-74.

Los grupos urbanos marginados: un nuevo intento de explicación. *Aportes*, 18:131-47.

El proceso de urbanización y su impacto en la modernización de las instituciones políti-

cas locales. *Journal of the Inter-American Planning Society*, 4:5-21.

SIMON, RITA J., Professor

Articles

Vandalism in a university library— who's responsible. *Education*, 90, 1:39-44.

Beyond a reasonable doubt—a quantitative assessment. *Journal of Applied Behavioral Science*, 6, 2:203-9.

Judges translations of burdens of proof into statements of probability. *The Trial Lawyer's Guide*, 13, 4:29-41.

The new left and the middle east. *The New Outlook*, 13, 5:41-45.

With T. E. Eimermann

Newspaper coverage of crimes and trials. *Journalism Quarterly*, 47, 1:142-44.

With G. Crotts, L. Mahan

Married women and their friends. *Social Forces*, 48, 4:520-25.

With P. Robertus

The movie code: a view from parents and teenagers. *Journalism Quarterly*, 47, 3: 568-70.

Reviews

Men in groups, by Lionel Tiger. *Transaction*, 7, 7:57-58.

SOFRANKO, ANDREW J., Assistant Professor

See Agricultural Economics.

SOLAUN, MAURICIO, Assistant Professor
See Latin American Studies, Center for.

SUDMAN, SEYMOUR, Associate Professor
See Business Administration.

VAN ES, JOHANNES C., Assistant Professor
See Agricultural Economics.

WIEBE, PAUL D., Assistant Professor

Articles

Protestant missions in India: a sociological review. *Journal of Asian and African Studies*, 5, 4:293-301.

Christianity and social change in South India. *Practical Anthropology*, 17, 3:128-36.

With G. N. Ramu

Profiles of rural politics in Mysore. *Eastern Anthropologist*, 23, 2:131-40.

DOCTORAL DISSERTATIONS

Fox, Roger A. (J. E. Hulett, Jr., Adviser),
The validity and efficacy of individual power measures for the study of community social change.

Grimm, James W. (H. Y. Tien, Adviser), The structural limits of professionalization: academic librarianship as a test case.

Handler, Ellen O. (B. Farber, Adviser), Pre-schools and their graduates.

Harvey, David L. (B. Farber, Adviser), Potter addition: stigma and community.

Haurek, Edward W. (D. J. Bordua, Adviser), The impact of socio-economic status and peer and parental influences upon college aspiration and attendance.

Lewis, Jerry M. (B. Farber, Adviser), Kinship patterns in eight midwestern families.

MacKinnon, Neil J. (G. F. Summers, Adviser), Multivariate explorations in role analysis: a Canadian adult education center for the unemployed.

Mettlin, Curtis J. (F. C. Fliegel, Adviser), Assessing the effects of interpersonal influence in the attitude formation process.

Ranninger, Hazel M. (J. E. Hulett, Jr., Adviser), Societal responses to deviants in the United States and Austria: an exploratory study.

Rowitz, Louis (J. E. Hulett, Jr., Adviser), The effects of institutionalization upon the self identifications of schizophrenic patients.

Samuels, Frank G. (B. Karsh, Adviser), The Negro tavern: a microcosm of slum life.

Seiler, Lauren H. (C. L. Folse, Adviser), Social structure and anomie: social isolation as "retreatism."

Smith, Regan G. (S. Kronus, Adviser), The small claims court: a sociological interpretation.

Tift, Larry L. (D. J. Bordua, Adviser), Comparative police supervision systems: an organizational analysis.

SPANISH, ITALIAN, AND PORTUGUESE

BLAYLOCK, WILLIAM C., Associate Professor

Reviews

Die romanische anlautsonorisation, by Udo Figge. *Romance Philology*, 23:345-48.

Le développement de l et n en ancien Portugais, by Leif Sletsjoe. *Ibid.*, 24:200-5.

COWES, HUGO W., Associate Professor

Articles

Estructura y sentido de *Luces de Bohemia* de Valle-Inclán. *Actas del Tercer Congreso Internacional de Hispanistas*, pp. 215-23.

FORSTER, MERLIN H., Professor

Books Edited

La muerte en la poesía Mexicana. Editorial Diógenes, Mexico City, 217 pp.

FRANCESCATO, MARTHA P., Assistant Professor

"Casa tomado" en traducción al diseño gráfico por Juan Fresán, by Julio Cortázar. *Revista Iberoamericana*, 36, 73:670-71.

Ultimo round, by Julio Cortázar. *Ibid.*, 72: 532-34.

HERSHBERG, DAVID R., Associate Professor

Articles

Porcia in Golden Age literature: echoes of a classical theme. *Neophilologus*, 54:22-30.

KAHANE, HENRY R., Professor

Articles

With R. Kahane

Romeo, the pilgrim. *Bollettino dell'Atlante Linguistico Mediterraneo*, 10-12:429-31.

Wolfram's gekriuzte ritter (Parz. 72, 13) — a provençalism? *Romance Philology*, 24, 1: 84-86.

Reviews

Bibliografia della linguistica Italiana, by R. A. Hall, Jr. *Language*, 40, 3:712-13.

LEAL, LUIS, Professor

Books Edited

Pedro Páramo, by Juan Rulfo. Appleton-Century-Crofts, New York, 178 pp.

With F. Dauster

Literatura de Hispanoamérica. Harcourt, Brace and World, New York, 560 pp.

- Articles**
 Borges y la novela. *Revista Iberoamericana*, 36, 70:11-23.
 Situación de Amado Nervo. *Ibid.*, 72:485-94.
 La "Colección de poesías Mexicanas" atribuida a José Luis Mora. *Boletín Bibliográfico de la Secretaría de Hacienda y Crédito Público*, 16, 440:4-7.
- Reviews**
 The modern short story in Peru, by E. M. Aldrich, Jr. *Symposium*, 24, 2:176-78.
 After the storm, by J. Sommers. *Hispanic Review* 38, 3:176-78.
 Diccionario de escritores Mexicanos, by Aurora M. Ocampo de Gómez and Ernesto Prado Vázquez. *Revista Iberoamericana*, 36, 72:520-23.
 Epistolario y archivo, by Mariano Azuela. *Ibid.*, 70:131-34.
- LOTT, ROBERT E., Professor**
- Books**
 Language and psychology in "Pepita Jiménez." University of Illinois Press, Urbana, 284 pp.
- Reviews**
 Galdós, II, by José F. Montesinos. *Books Abroad*, 44, 3:442-43.
- MEEHAN, THOMAS C., Assistant Professor**
- Reviews**
 Los prados de la conciencia, by Carlos Martínez Moreno. *Books Abroad*, 44, 1:81.
 Recopilación de textos sobre Juan Carlos Onetti, by Reinaldo García Ramos. *Ibid.*, 2: 271.
- MONTANO, ROCCO, Professor**
- Books**
 Lo spirito e le lettere: disegno storico della letteratura Italiana. Marzorati, Milano, Italy, vol. 1, 350 pp.
Ibid., vol. 2, 567 pp.
- Articles**
 Della Valle e il teatro del Seicento. *Umanesimo*, 2, 4:39-48.
 From Italian humanism to Shakespeare: Protestantism and literature. *Ibid.*, pp. 49-70.
 Cultura e società in America. *Ibid.*, pp. 9-24.
 The aesthetics of Homer: a footnote to the work of Carlo Diano. *Studi Internazionali di Filosofia*, 2:149-62.
- PASQUARIELLO, ANTHONY M., Professor**
- Articles**
 Views and concerns about foreign language teaching. *Hispania*, 53, 3:482.
 The evolution of the *loa* in Spanish America. *Latin American Theatre Review*, 3, 2:5-19.
- PORQUERAS-MAYO, ALBERTO, Professor**
- Articles**
 Función de la fórmula "no sé qué" en textos literarios españoles (Siglos 18-22). In *Actas del XI Congreso Internacional de Lingüística y Filología Románica*, Consejo Superior de Investigaciones Científicas, Madrid, Spain, pp. 2161-81.
 Nuestros Filólogos: el Professor F. Sánchez Escrivano. *Boletín de Filología Española*, 9, 32:33-3:11.
- With J. L. Laurenti*
 Notas bibliográficas sobre el prólogo en la literatura gregolatina. *Estudios Clásicos*, 13, 57:109-16.
- PRETO-RODAS, RICHARD A., Associate Professor**
- Books**
 Negritude as a theme in the poetry of the Portuguese-speaking world. University of Florida, Gainesville, 94 pp.
- Reviews**
 Alfonso el Sabio, by John E. Keller. *South Atlantic Bulletin*, 25, 3:53-56.
- SALTARELLI, MARIO, Associate Professor**
- Books**
 A phonology of Italian in a generative grammar. *Janua Linguarum* 93, Mouton, The Hague, 96 pp.
 La grammatica generativa trasformazionale. Sansoni, Firenze, 150 pp.
- Articles**
 The structure of the lexicon: on the nature of lexical readings. *Actes du X^e Congrès International des Linguistes, Bucarest*, 2: 699-702.
 Fonologia generativa dell'Algherese. *Atte del XII-Lea Congres International de Linguistica Si Filologie Romanica*, 1: 311-14.
 Spanish plural formation: apocope or epenthesis? *Language*, 46, 1:89-96.
 Fonologia e morfologia Algherese. *Archivio Glottologico Italiano*, 55, 1-2:232-56.
 Focus on focus: propositional generative grammar. *Studies Presented to Robert B. Lees by His Students*, University of Illinois Press, Urbana, pp. 239-54.
- SHOEMAKER, WILLIAM H., Professor Emeritus**
- Books**
 Estudios sobre Galdós. Editorial Castalia, Madrid, 295 pp.
- Articles**
 Galdós escribe sobre el Ateneo. *La Estafeta Librería*, 447:3-8.
 Benito Pérez Galdós, 1843-1920. *Hispania*, 53, 4:1.
 "Los Pepes" of Galdós in 1868 and 1887: two stages of his style. *Ibid.*, 4:887-98.
- WANNER, DIETER, Assistant Professor**
- Articles**
 Substratuit as a special case of grammar simplification. *Papers in Linguistics*, 2, 3:415-48.
- DOCTORAL DISSERTATIONS**
 Diaz, Modesto M. (S. H. Shoemaker, Adviser), La novelística de Narciso Oller, creador de la novela catalana moderna.
 D'Lugo, Marvin A. (L. Leal, Adviser), "Self-conscious" form: the perception of reality in contemporary Latin American fiction.
 Dust, Patrick H. (A. R. Piertrangeli, Adviser), Dámaso Alonso's quest for meaning.
 De Francescato, Martha P. (L. Leal, Adviser), *El Bestiario* de Julio Cortázar: enriquecimiento de un género.
 Klein, Richard B. (R. E. Lott, Adviser), The development of realism in late nineteenth-century Spanish drama.
 Laws, David P. (J. H. D. Allen, Adviser), From memory to imagination: José Lins do Rêgo's *Ciclo da Cana-De-Açúcar*.
 Maharg, James (L. Leal, Adviser), A call to authenticity: the essays of Ezequiel Martínez Estrada.

Phillips, Jordan B. (M. H. Forster, Adviser), Thirty years of Puerto Rican drama: 1938-1968.

Quackenbush, Louis H. (M. H. Forster, Adviser), The Latin American *Auto*: themes and forms.

Rogers, Elizabeth S. (W. H. Shoemaker, Adviser), Human values and themes in the novels of Miguel Delibes.

Rojas, Guillermo (L. Leal, Adviser), Characterization of Pancho Villa and other historical figures in the major works of Martin Luis Guzmán.

Romero, Héctor Réne (R. E. Lott, Adviser), La novelística de Juan Goytisolo.

SPEECH

ANDERSEN, KENNETH E., Associate Professor

Books Edited

Directory of membership. Central States Speech Association, Hannibal, Missouri. 64 pp.

Articles

An introduction to discussion for high school students. In *Discussion and debate handbook*, Detroit Free Press, Detroit, Michigan, pp. 4-14.

CLARK, RUTH ANNE, Assistant Professor

Articles

With G. Hynes

The relationship of judgments of desirability and likelihood. *Speech Monographs*, 37, 3: 199-206.

DANILOFF, RAYMOND G., Assistant Professor

Articles

With J. D. Amerman, K. L. Moll

Lip and jaw coarticulation for the phoneme /H/. *Journal of Speech and Hearing Research*, 13: 147-61.

With T. H. Shriner

Reassembly of segmented CVC syllables by children. *Ibid.*, pp. 537-47.

DOYLE, MICHAEL V., Assistant Professor

Articles

Compensatory education for the disadvantaged in elementary and pre-school. *Education*, 90, 2: 176-77.

What is compensatory education? *Contemporary Education*, 42, 1: 39-43.

A review of three significant compensatory education language programs for the culturally disadvantaged. *Elementary English*, 48, 2: 195-97.

INCE, ROBERT L., Associate Professor

Articles

Report of the workshops on elementary school speech communication. In *Proceedings: Speech Communication Association summer conference VI*, ed. by Malcolm Sillars, Speech Communication Association, New York, pp. 68-71.

Secondary school speech education in Illinois. *Illinois Journal of Education*, 61, 6: 95-99.

KRAMER, CHERIS R., Instructor

Articles

Experimentation in technique: Frank O'Connor's "Judas." *Dublin Magazine*, 5, 3: 31-38.

LOCKE, JOHN L., Assistant Professor

See Children's Research Center.

MACLAY, JOANNA H., Assistant Professor

Books

Readers theatre: toward a grammar of practice. Random House, Inc., New York, 110 pp.

O'NEILL, JOHN J., Professor

Articles

The school audiologist: a proposal for Illinois. *Illinois Speech and Hearing Journal*, 4, 1: 9-15.

Commitment to a professional image. *Asha*, 12, 1: 3-6.

With Sister C. M. Bloom

Evaluation of auditory training. *Journal of the Academy of Rehabilitative Audiology*, 3, 2: 43-47.

PADEN, ELAINE P., Associate Professor

Books

A history of the American Speech and Hearing Association, 1925-1958. American Speech and Hearing Association, Washington, D.C., 112 pp.

SANDERS, LOIS J., Assistant Professor

Books

Procedure guides for evaluation of speech and language disorders in children. Department of Speech, University of Illinois, Urbana, 111 pp.

SHADOW, MICHAEL J., Instructor

Reviews

Gregory of Nazianzus: rhetor and philosopher, by Rosemary Radford Ruether. *Quarterly Journal of Speech*, 56, 3: 335-36.

SHRINER, THOMAS H., Associate Professor

Articles

Social dialect and language. In *The first Lincolnland conference on dialectology*, ed. by Griffith and Miner, University of Alabama Press, University, Alabama, pp. 63-81.

With R. G. Daniloff

Reassembly of instances of segmented CVC syllables by children. *Journal of Speech and Hearing Research*, 13, 3: 537-47.

SILVERMAN, FRANKLIN H., Assistant Professor

Articles

A note on the degree of adaptation by stutterers and nonstutterers during oral reading. *Journal of Speech and Hearing Research*, 13, 1: 173-77.

Course of nonstutterers' disfluency adaptation during 15 consecutive oral readings of the same material. *Ibid.*, 2: 382-86.

Distribution of instances of disfluency in consecutive readings of different passages by nonstutterers. *Ibid.*, 4: 874-82.

Concern of elementary-school stutterers about their stuttering. *Ibid.*, 35, 4: 361-63.

STARK, EARL W., Associate Professor

Articles

With T. E. Borton

Audiological findings in hearing loss secondary to maternal Rubella. *Pediatrics*, 45, 2: 225-29.

WALLACE, KARL R., Professor

Books

Understanding discourse: the speech act and rhetorical action. Louisiana State University Press, Baton Rouge, 150 pp.

Articles

Remarks on the speech education conference. In *Proceedings: Speech Communication Association summer conference VI*, ed. Malcolm Sillars, Speech Communication Association, New York, pp. 129-37.

A modern view of delivery. In *Essays in honor of Claude M. Wise*, ed. by Arthur J. Bronstein, Claude L. Shaver, and C. J. Stevens, Standard Printing Company, Hannibal, Missouri, pp. 153-66.

Speech act and unit of communication. *Philosophy and Rhetoric*, 3, 3:174-81.

DOCTORAL DISSERTATIONS

Amerman, James D. (R. G. Daniloff, Adviser), A cinefluorographic investigation of the co-articulatory behaviors of the apex and body lingual articulators.

Batty, Paul W. (J. W. Wenzel, Adviser), Eric Hoffer's theory of mass persuasion.

Beasley, Daniel S. (T. H. Shriner, Adviser), Auditory analysis of time-varied sentential approximations.

Berry, Richard C. (R. G. Daniloff and J. J. O'Neill, Advisers), A critical review of noise location during simultaneously presented sentences.

Birdman, Jerome M. (B. W. Hewitt, Adviser), Professional productions of Luigi Pirandello's plays in New York City.

Cronen, Verne E. (R. A. Clark, Adviser), The interaction of refutation type, involvement, and authoritative: a study of argumentation.

Dearin, Ray D. (J. W. Wenzel, Adviser), Chaim Perelman's theory of rhetoric.

Johnston, Donald D. (E. W. Stark, Adviser), Analysis of modified ascending Bekey (MAB) tracings.

Johnson, Robert G. (W. R. Zemlin, Adviser), An attempt to objectify nasality: a new instrumental approach.

Jones, John A. (M. H. Nichols, Adviser), An analysis of arguments in the Canadian House of Commons on the issue of nuclear weapons for Canada.

Measell, James S. (J. W. Wenzel, Adviser), Development of the concept of analogy in philosophy, logic, and rhetoric to 1850.

Miner, Lynn E. (J. J. O'Neill and F. H. Silverman, Advisers), A normative study of the length-complexity index for five-year-old children.

Page, William T. (R. A. Clark, Adviser), The development of a test to measure anticipated communicative anxiety.

Prutting, Carol A. (T. H. Shriner, Adviser), Articulatory behavior and syntactical acquisition in hard-of-hearing children.

Schuckers, Gordon H. (T. H. Shriner, Adviser), Auditory reassembly of segmented sentences.

Talley, James N. (W. R. Zemlin and A. J. Derbyshire, Advisers), Acoustic and electric stimulation of the cochleas of hearing and deaf guinea pigs and electrocortical responses.

Toscan, Richard E. (B. Hewitt, Adviser), The organization and operation of The Federal Street Theatre from 1793 to 1806.

Walters, Timothy L. (R. A. Clark, Adviser), An experimental study of altruistic and selfish appeals.

Weaver, John B. (J. J. O'Neill, Adviser), An investigation of the characteristics of children referred from a public school hearing screening program.

Williams, Anne S. C. (B. Hewitt, Adviser), Robert Porterfield's Barter Theatre of Abingdon, Virginia; The State Theatre of Virginia.

SURVEY RESEARCH LABORATORY

FERBER, ROBERT, Director of Laboratory and Professor of Economics
See Business Administration.

HAUCK, MATHEW N., Research Associate
Reviews

Methodology of consumer expenditure surveys (rev. ed.), by Robert V. Pearl. *Journal of Marketing Research*, 7, May:268.

SUDMAN, SEYMOUR, Associate Professor
See Business Administration.

THEATRE

HEWITT, BARNARD, Professor

Books

History of the theatre from 1800 to the present. Random House, New York, 210 pp.

BRADY, PAUL J., Instructor

Books

With C. H. Moe, D. R. Payne

Six new plays for children. Southern Illinois University Press, Carbondale, 320 pp.

Plays

Huck Finn. In *Six new plays for children*, ed. by C. H. Moe and D. R. Payne, Southern Illinois University Press, Carbondale, 70 pp.

THEORETICAL AND APPLIED MECHANICS

BORESI, ARTHUR P., Professor

Articles

With R. M. Kanazawa

Calculation of the response of rods to boundary layer pressure fluctuations. In *Proceedings of the conference on flow-induced vibrations in reactor system components*, Argonne National Laboratory, 7685, pp. 47-63.

With H. L. Langhaar, R. E. Miller

Stability of hyperboloidal cooling tower. *Journal of Engineering Mechanics Division, Proceedings of the American Society of Civil Engineers*, 96, EM5:753-79.

With P. P. Lynn

Kinds of convergence and improved convergence of conforming finite element solutions in plate bending. *Nuclear Engineering and Design*, 11, 2:159-76.

With J. E. Stoneking

A theory of free vibration of orthotropic shells of revolution. *Nuclear Engineering and Design*, 14, 2:271-85.

With F. R. Vigneron

Effect of the earth's gravitational forces on the flexible crossed-dipole satellite configuration, 1: Configuration stability and despin. *Canadian Aeronautics and Space Institute Transactions*, 3, 2:115-26.

BOWMAN, CLETUS E., Professor

Articles

With E. Kornayi, C. D. Knecht, M. Janssen
Holding power of orthopedic screws in bone.
Clinical Orthopaedics, 72:283-86.

CARLSON, DONALD E., Professor

Articles

With C. Chan

Second-order incompressible elastic torsion. *International Journal of Engineering Science*, 8:415-30.

With H. J. Petroski

Some exact solutions to the equations of nonlinear thermoelasticity. *Journal of Applied Mechanics, Transactions of the American Society of Mechanical Engineers*, E37, 4: 1151-54.

CLARK, MARLYN E., Professor

Articles

With L. C. Cheng, J. M. Robertson

Numerical analysis of oscillating flow in the vicinity of an obstacle. *Proceedings of the Twenty-third Annual Conference in Medicine and Biology*, 12:9-16.

CORTEN, HERBERT T., Professor

Articles

Toughness of materials. *Ocean Engineering, An International Journal*, 1, 3:261-84.

With E. J. Ripling, S. Mostoroy

Fracture mechanics: a tool for evaluating structural adhesives. *Proceedings of the National Society for Aerospace Materials and Process Engineers Technical Conference on Aerospace Adhesives and Elastomers*, 2:259-72.

DOLAN, THOMAS J., Professor

Articles

Preclude to failure: a philosophy for materials selection and simulated service testing. *Experimental Mechanics*, 10, 1:1-14.

Designing structures to resist low cycle fatigue. *Metals Engineering Quarterly*, 10, 4:18-25.

Failure analysis of metal components. *Annual Technical and Operating Conference, Steel Founders Society*, 25:96-102.

Reviews

The physical basis of metal fatigue, by P. J. E. Forsythe. *Shock and Vibration Digest*, 1, 3:28.

Metal fatigue: theory and design, by A. F. Madayag, *Ibid.*, 5:27.

DOWLING, NORMAN E., Instructor

Bulletins and Technical Reports

Fatigue failure predictions for complicated stress-strain histories. Department of Theoretical and Applied Mechanics, University of Illinois, Urbana, 78 pp.

GALLAGHER, JOSEPH P., Assistant

Professor

Articles

With J. T. Ryder

Environmentally controlled fatigue crack growth rates in SAE 4340 steel-temperature effects, *Journal of Basic Engineering, American Society of Mechanical Engineers Transactions*, 92, 1:121-25.

Bulletins and Technical Reports

Corrosion fatigue crack growth behavior above and below $K_{I,sec}$. In *Naval Research Labo-*

ratory, Report No. 7064, Washington, D.C., 18 pp.

HENLEY, DONALD R., Teaching Assistant

Bulletins and Technical Reports

An investigation of polyesters with variable optical and mechanical properties for use in photomechanics. Theoretical and Applied Mechanics Report No. 335, Department of Theoretical and Applied Mechanics, University of Illinois, Urbana, 31 pp.

KESLER, CLYDE E., Professor

Articles

With J. P. Callahan, J. L. Lott

Bridge deck deterioration and crack control. In *Journal, Structural Division, American Society of Civil Engineers*, 96, ST 10:2021-36.

With J. P. Lloyd

Splices and anchorages in one-way slabs reinforced with deformed wire fabric. *Proceedings, American Concrete Institute*, 67: 636-41.

Bulletins and Technical Reports

Fatigue and fracture of concrete. In *Stanton Walker Lecture Series on the material sciences*, 8, National Sand and Gravel Association and National Ready-Mixed Concrete Assembly, 19 pp.

With J. P. Callahan, C. P. Siess

Effect of stress on freeze-thaw durability of concrete bridge decks. *National Cooperative Highway Research Program Board Report 101*, 70 pp.

With D. J. Naus, H. M. Rejli, J. L. Lott

Cracking of concrete. *Engineering Experiment Station Bulletin 504*, University of Illinois, Urbana, 48 pp.

LANGHAAR, HENRY L., Professor

Articles

With S. C. Chu

Piecewise polynomials and the partition method for ordinary differential equations. In *Developments in theoretical and applied mechanics*, ed. by Daniel Frederick, Pergamon Press, Oxford, pp. 553-64.

With A. P. Boresi, R. E. Miller, J. J. Brueggling

Stability of hyperboloidal cooling tower. *Engineering Mechanics Division Proceedings of American Society of Civil Engineers*, 96, EM5:753-79.

McLAUGHLIN, PHILIP V., JR., Assistant Professor

Articles

With S. C. Batterman

On extending the range of applicability of the limit theorem. *Journal of Applied Mechanics*, 37, 2:518-21.

Limit behavior of fibrous materials. *International Journal of Solids and Structures*, 6, 10:1357-76.

Limit analysis of plates under concentrated load. *Journal of the Engineering Mechanics Division of the American Society of Engineers*, 96, EM4:509-14.

Limit surfaces for fibrous composite plates. *American Institute of Aeronautics and Astronautics Journal*, 8, 12:2136-40.

MILLER, ROBERT E., Professor

Articles

With H. R. Fraser, Jr.

Bifurcation type buckling of generally ortho-

tropic clamped plates. *American Institute of Aeronautics and Astronautics Journal*, 8, 4:707-12.

With H. L. Langhaar, A. P. Boresi, J. J. Bruegging

Stability of hyperboloidal cooling tower. *Journal of the Engineering Mechanics Division, American Society of Civil Engineers*, 96, EM5:753-79.

MORROW, JODEAN, Professor

Articles

With D. T. Raske

Mechanics of materials in low cycle fatigue testing. In *Manual on low cycle fatigue testing*, American Society for Testing Materials Standard Technical Publication 465, pp. 1-25.

With R. M. Wetsel, T. H. Topper

Laboratory simulation of structural fatigue behavior. In *Effects of environment and complex load history on fatigue life*, American Society for Testing Materials Standard Technical Publication 462, pp. 74-91.

PHILLIPS, JAMES W., Assistant Professor

Articles

Stress pulses produced during the fracture of brittle tensile specimens. *International Journal of Solids and Structures*, 6:1403-12.

With L. B. Freund

Near-front stress singularity for impact on an elastic quarter-space. *Journal of the Acoustical Society of America*, 47, 3:942-43.

ROBERTSON, JAMES M., Professor

Articles

With L. C. Chang, M. E. Clark

Numerical analysis of oscillating flow in the vicinity of an obstacle. In *Proceedings of the twenty-third conference on engineering in medicine and biology*, p. 108.

With H. F. Johnson

Turbulence structure in plane covette flow. *Proceedings of the American Society of Civil Engineers, Journal of Engineering Mechanics*, 96, EM6:1171-82.

With H. Pazwash

Fluid dynamics of bottom materials. *Proceedings of Civil Engineering in the Oceans*, 2: 1135-48.

SHIELD, R. T., Professor

Articles

Optimal structural design for given deflection. *Journal of Applied Mathematics and Physics*, 21, 1970:513-23.

SIDEBOTTOM, OMAR M., Professor

Articles

With S. C. Chu

Creep of metal torsion-tension members subjected to nonproportionate load changes. *Journal of the Society for Experimental Stress Analysis*, 10, 6:225-32.

SINCLAIR, GEORGE M., Professor

Articles

With B. R. Gain

Parameter representation of dynamic equilibrium in creep and fatigue. *Journal of Basic Engineering, Series D, Transactions of the American Society of Mechanical Engineers*, 92, 3:610-18.

Bulletins and Technical Reports

What the designer should know about the fracture mechanics testing, paper 71015. In

Society of Automotive Engineers, Society of Automotive Engineers, Inc., New York, 16 pp.

STIPPES, MARVIN C., Professor

Articles

With D. D. Penrod

Ketchum's hypervariable in classical elasticity. In *Proceedings second Canadian congress of applied mechanics*, N. C. Lind, University of Waterloo, Waterloo, Ontario, pp. 153-54. 1969.

With J. E. Stoneking

The boundary value problems for the sphere in classical elasticity. In *Developments in theoretical and applied mechanics*, 4, Daniel Frederick, Pergamon Press, Great Britain, pp. 117-23.

A remark on compatibility of strain. *Zeitschrift für Angewandte Math und Physik*, 21:6: 1081-82.

With J. Dundurs

Role of elastic constants in certain problems. *Journal of Applied Mechanics*, series E, 37:4.

WILEY, JACK C., Assistant Professor

Articles

With J. Genin

Nonlinear static behavior of cantilever subjected to an inclined follower force. *Applied Scientific Research*, 23, 1:1-15.

WORLEY, WILL J.

Bulletins and Technical Reports

With T. F. Moriarty

Small deflection of a class of clamped thin plates using conformal mapping. In *National Aeronautics and Space Administration, National Aeronautics and Space Administration Report CR-1657*, Washington, D.C., 33 pp.

DOCTORAL DISSERTATIONS

Chan, Conway (D. E. Carlson, Adviser), Second-order elastic torsion.

Hannon, Bruce M. (H. L. Langhaar, Adviser), An isothermal analogy for thermal stresses in shells.

Hickman, James C. (G. M. Sinclair, Adviser), Parameter representation of cyclic equilibrium in metals containing a dispersed second phase.

Hubbard, Robert P. (G. M. Sinclair, Adviser), Flexure of cranial bone.

Janssen, Marvin L. (C. E. Bowman, Adviser), The dynamic response of two dimensional photoelastic models of the human head.

Janzen, Peter (R. E. Miller, Adviser), On the effect of initial imperfections on the behavior of thin-walled axially compressed circular cylinders.

Nitzsche, Ray N. (R. E. Miller, Adviser), Stress and deformation of curved beams of thin-walled cross section subjected to torsion and flexure.

Willem, Raymond A. (G. A. Costello, Adviser), Dynamics of a point mass on the end of a cantilever beam for large deflections.

UNIVERSITY COUNSEL

COSTELLO, JAMES J., University Counsel

Articles

Faculty relations. In *Handbook of college and university relations*, ed. by Asa Knowles, McGraw-Hill, New York, pp. 1-43.

UNIVERSITY EXTENSION

AUTEN, JAMES H., Instructor

Articles

- Training within the small department. *Law and Order*, 2, 2:42, 44-45.
Determining training needs. *Police*, 15, 1:25-28.

CROWE, LINDA D., Instructor

See Library Science.

HANNA, DONALD G., Extension Specialist

Books

- Criminal law for Illinois police. Stipes Publishing Co., Champaign, Illinois, 105 pp.

HUFFMAN, WARREN J., Professor

See Health and Safety Education.

JOHNSON, WALTER M., Professor

Reviews

- New directions in Japanese architecture, by Robin Boyd. *Art Education*, 23, 1:42.
New directions in British architecture, by Royston Landau. *Ibid.*
New directions in German architecture, by Gunther Feuerstein. *Ibid.*
New directions in Italian architecture, by Vittorio Gregotti. *Ibid.*

KLEBERG, JOHN R., Extension Specialist

Articles

- Selection process of police officers is first line of campus defense. *College and University Business*, 48, 4:95-96.

With C. R. Taylor

- Educational incentives for police. *Illinois Municipal Review*, 49, 10:4-7.

MANELLA, FRANK L., Associate Professor

Articles

- A program to cope with youth violence in schools. *Law and Order*, 18, 9:24-27.
Traveling workshops in police-community relations. *The Police Chief*, 37, 9:36-37.
Student activism and institutional neutrality. *Police*, 15, 2:73-76.

MAYER, LEON A., Associate Professor

Articles

With L. J. Phipps

- Educational programs for laboratory animal caretakers and meat inspectors. *Agricultural Education*, 42, 8:204-5.

McQUEEN, RALPH D., Associate Professor

See Veterinary Physiology and Pharmacology.

MOLDEN, JACK B., Associate Professor

Articles

- A survey of applicant testing practices by Kansas municipal police departments. *Police*, 14, 6:28-34.

NEDRUD, DUANE R., Associate Professor

Books

- The supreme court and the law of criminal investigation. LE Publishers, Inc., Chicago, 323 pp.

Books Edited

With M. D. Oberto

- Nedrud: the criminal law, 1970. LE Publishers, Inc., Chicago, 568 pp.

Articles

Chimel (Chimel v. California). *North Dakota Law Review*, 46, Summer:41.The Supreme Court and the criminal law. The October, 1969, term. *The Prosecutor*, Summer, 1970.

O'CONNOR, JOHN A., Assistant Professor

Books

With L. R. Halfvarson

- A survey of adult and continuing music education in Illinois. Division of University Extension, Champaign, Illinois, 50 pp.

Articles

U. of I. jazz-rock in Illinois schools. *The Illinois Music Educator*, 31, 2:6-7.

TAYLOR, CHARLES R., Associate Professor

Articles

An expanded police training opportunity for Illinois. *Illinois Municipal Review*, 49, 6:4, 5, 17.Executive development for police. *FBI Law Enforcement Bulletin*, 39, 8:16-20.

With J. R. Kleberg

Educational incentives for police. *Illinois Municipal Review*, 49, 10:4-7.

ULRICH, RICHARD L., Extension Specialist

Articles

Illinois two-week management seminar. *Firemen*, 37, 6:26.Reflections on better manpower utilization. *Fire Command*, 37, 7:44-45.The human factor in fire department management. *Ibid.*, 11:12-15.

WEBB, DONALD G., Instructor

Articles

Supreme Court's influence on vagrancy laws. *Police*, 15, 2:64-68.

WISNIEWSKI, THOMAS J., Assistant Professor

Articles

Today's knowledge, tomorrow's ignorance and you. *Lyons Music News*, 18, 3:5.Whatever happened to "excellence" in our school orchestra program? *Ibid.*, 19, 2:10.Will the real Shinichi Suzuki please stand up. *Ibid.*, 1:3.The contest syndrom. *Ibid.*, 2:1, 10.Sleepers awake. *Ibid.*, 3:16.

UNIVERSITY HIGH SCHOOL

LEPPERT, ELLA C., Professor

Bulletins and Technical Reports

With R. F. Payette

- An evaluation report of the sequential social science courses for the secondary school. University of Illinois Curriculum Laboratory, Urbana, 315 pp.

SMITH, KATHRYN W., Instructor

Books

- A study of federal legislation relevant to home economics education. ERIC, The Center for Vocational and Technical Education, Ohio State University, Columbus, 161 pp.

SZABO, STEVEN, Principal Specialist

Books

- With M. Beberman, H. E. Vaughan, H. Gabai
High school mathematics, course 4. D. C.

Heath and Company, Lexington, Massachusetts, 455 pp.

Reviews

How to teach mathematics in secondary schools, by Fremont. *The Mathematics Teacher*, 62, 8:683.

TIBBETTS, CHARLENE N., Instructor

Books

With E. R. Levy

Rhetoric in thought and writing, level I. Holt, Rinehart and Winston, New York, 162 pp.

Rhetoric in thought and writing, level I, teacher's manual. *Ibid.*, 156 pp.

Rhetoric in thought and writing, level II. *Ibid.*, 160 pp.

Rhetoric in thought and writing, level II, teacher's manual. *Ibid.*, 142 pp.

UNIVERSITY PRESS

WENTWORTH, RICHARD L., Associate Director and Editor

Articles

Southern history and the University Press. *Scholarly Publishing*, 1, 3:281-87.

URBAN AND REGIONAL PLANNING

GOODMAN, WILLIAM I., Professor

Reviews

American city planning since 1890: a history, by Mel Scott. *American Society of Planning Officials Newsletter*, 36, 2:30-31.

VETERINARY BIOLOGICAL STRUCTURE

KENNER, GERRY H., Assistant Professor

Articles

Vascular changes in bone following bone-seeking radionuclides. In *Delayed effects of bone-seeking radionuclides*, University of Utah Press, Salt Lake City, pp. 437-55.

Corticosteroid and bone. *American Journal of Anatomy*, 129:477-80.

Activity of anti-inflammatory steroids upon fibroblasts and bones. *British Journal of Dermatology*, 82:53-61.

ROMACK, FRANK E., Associate Professor

Articles

Some uses of radioactive isotopes in veterinary medical research. *Illinois Research*, 12, 2:11.

ST. CLAIR, LORENZ E., Professor

Articles

Anatomy. In *Diseases of swine* (third ed.), ed. by H. W. Dunne, The Iowa State University Press, Ames, pp. 3-37.

VETERINARY CLINICAL MEDICINE

BRODIE, BRUCE O., Professor

Articles

Trichomoniasis. In *Bovine medicine and surgery* ed. by Gibbons, Catcott and Smithers, American Veterinary Publications, Wheaton, Illinois, pp. 219-27.

With R. D. Hatch, J. C. Thurmon, B. G. Erwin
Estrogen therapy and follicular cysts in

cows. *Modern Veterinary Practice*, 51, 11: 54-55.

BURKE, THOMAS J., Instructor

Articles

With B. E. Wall

Anesthetic deaths in cobras (*Naja naja* and *Ophiophagus hannah*). *Journal American Veterinary Medical Association*, 157, 6: 620-21.

Hypovitaminosis A in chelonians. *International Turtle and Tortoise Society Journal*, 4, 3:8-9.

ERWIN, BENNIE G., Instructor

Articles

With R. D. Hatch, B. O. Brodie, J. C. Thurmon

Estrogen therapy and follicular cysts in cows. *Modern Veterinary Practice*, 51, 11: 54-55.

HARDENBROOK, HARRY, JR., Professor

Articles

With R. Patel

Alkaline phosphatase in healing of wounds of skin and subcutis in the equine. *Journal American Veterinary Research*, 31, 8:1389-92.

HATCH, RAY D., Professor

Articles

With B. O. Brodie, J. C. Thurmon, B. G. Erwin

Estrogen therapy and follicular cysts in cows. *Modern Veterinary Practice*, 51, 11: 54-55.

HELPER, LLOYD C., Associate Professor

Articles

With J. A. Simon, J. Noyes

Metastatic ocular blastomycosis in the dog—a report of 2 cases. *Journal American Veterinary Medical Association*, 157, 7:922-25.

With G. Schmidt, W. G. Magrane

Partial duct transpositions—a follow-up study of the eyes. *Journal American Animal Hospital Association*, 6, 4:235-41.

The effect of lacrimal gland removal on the conjunctiva and cornea of the dog. *Journal American Veterinary Medical Association*, 157, 1:72-75.

KNECHT, CHARLES D., Associate Professor

Articles

With R. Slusher

Extrapelvic anastomosis of the bladder in a dog. *Journal American Animal Hospital Association* 6, 4:247-51.

LINGARD, DONALD R., Professor

Articles

Congenital ameloblastic odontoma in a foal. *American Journal Veterinary Research*, 31, 4:801-4.

PARKER, ALAN J., Instructor

Articles

FIP treatment. *Journal Small Animal Practice*, 13, 11:14-16.

REYER, CHARLES E., Instructor

Articles

With G. Smith

Toxicology review. *Illinois Veterinarian*, 13, 9:10-12.

SLUSHER, RALPH, Associate Professor

Articles

With M. T. Case, E. Small

Duct cell carcinoma in the canine mammary gland. *Journal American Animal Hospital Association*, 6, 1:20-27.

With C. D. Knecht

Extrapelvic anastomosis of the bladder in a dog. *Ibid.*, 4:247-51.

SMALL, ERWIN, Professor

Articles

With A. M. Watrach, M. T. Case

Cancer papilloma: progression of oral papilloma to carcinoma. *Journal National Cancer Institute*, 45, 5:915-20.

With M. T. Case, R. Slusher

Duct cell carcinoma in the canine mammary gland. *Journal American Animal Hospital Association*, 6, 1:20-27.

With J. D. Conroy, N. D. Levine

Visceral leishmaniosis in a fennec fox (*Fennecus zerda*). *Pathologica Veterinaria*, 7, 2:163-70.

Canine pediatrics. In *Proceedings of the 37th annual meeting of the American Animal Hospital Association*, Denver, Colorado, pp. 514-35.

THURMON, JOHN C., Professor

Articles

With J. Simon

A field study of twelve sows affected with the mastitis-metritis-agalactia (MMA) syndrome in Illinois. *Veterinary Medicine/Small Animal Clinician*, 65, 3:263-72.

With R. D. Hatch, B. O. Brodie,

B. G. Erwin
Estrogen therapy and follicular cysts in cows. *Modern Veterinary Practice*, 51, 11: 54-55.

SCHMIDT, GRETCHEN, Instructor

Articles

With C. A. Reyer

Toxicology review. *Illinois Veterinarian*, 13, 9:10-12.

With W. G. Magrane, L. C. Helper

Partial duct transposition—a follow-up study of the eyes. *Journal American Animal Hospital Association*, 6, 4:235-41.

VETERINARY MEDICAL SCIENCE

DOCTORAL DISSERTATIONS

Chaffee, Vincent W. (W. G. Huber, Adviser), Histochemical investigation of ovarian cholinesterases with special reference to those of the guinea-pig (*Cavia porcellus*) during the reproductive cycle.

Kuo, Yung-Huei (A. R. Twardock, Adviser), The effects of experimental diabetes on the clinical chemistry and calcium metabolism of the dairy goat.

Morris, Herbert B. (M. Ristic, Adviser), Characterization of opsonins isolated from cattle infected with *Anaplasma marginale* and their relationship to anemia.

Negi, Sunil K. (W. L. Myers, Adviser), Immunoglobulin class of *Leptospira pomona* antibodies in cattle.

Paine, Gordon D. (N. D. Levine, Adviser), The response of rabbits to infection with *Ascaris suum* and *Toxocara canis*.

Saxena, Sohan P. (L. E. Hanson, Adviser), Study of serologic and phage types of *Escherichia coli* isolated from animals.

Shaw, Gaylord E. (R. P. Link, Adviser), A comparative study of calcium and strontium metabolism in the pack rat (*Neotoma albigula*) and the white rat (*Rattus albinus*).

Tripathy, Deoki N. (L. E. Hanson, Adviser), Studies of leptospira serotype Illini, strain 3055.

VETERINARY MEDICINE ADMINISTRATION

BRANDLY, CARL A., Dean and Professor Emeritus

Books Edited

With C. E. Cornelius

Advances in veterinary science and comparative medicine, vol. 14. Academic Press, Inc., New York, 420 pp.

HANNAH, HAROLD W., Professor

Articles

Illinois laws affecting the disposal of dead animals and animal wastes. *Illinois Research*, 12, 1:8-9.

Incinerators. *Journal of the American Veterinary Medical Association*, 156, 5:531.

Reporting communicable animal diseases. *Ibid.*, 7:821.

Can the veterinarian strike back?—Liability in reverse. *Ibid.*, 8:955.

Ionizing radiation as a source of veterinary malpractice and negligence actions. *Ibid.*, 10:1397.

Liability for the acts of an assistant. *Ibid.*, 11:1518.

Safe premises for business callers. *Ibid.*, 157, 1:20.

The veterinarian as an expert witness. *Ibid.*, 4:426-27.

Loss or damage to animals by stream pollution. *Ibid.*, 6:786.

Veterinarians and ordinary negligence. *Ibid.*, 8:1016.

What damages for a dog? *Ibid.*, 10:1299-1300. How important is sanitation? *Ibid.*, 12:2040-41.

VETERINARY PATHOLOGY AND HYGIENE

BEAMER, PAUL D., Professor

Articles

With N. D. Levine, J. Simon

A disease of chickens associated with *Arthrocytis galli* n. g., n. sp., an organism of uncertain taxonomic position. In *H. D. Srivastava commemorative volume*, ed. by K. S. Singh, University of Lucknow, Lucknow, India, pp. 429-34.

With J. D. Conroy

The development of cutaneous and oral pigmentation in Labrador retriever fetuses (*Canis familiaris*). *Journal of Investigative Dermatology*, 54, 4:304-15.

BERGELAND, MARTIN E., Professor

Articles

Clostridial infections. In *Diseases of swine*, ed. by H. W. Dunne, Iowa State University Press, Ames, pp. 467-85.

Botulism. *Ibid.*, pp. 805-8.

Clostridium perfringens type C enteritis. In *Common diseases affecting baby pigs*, ed. by A. D. Leman, University of Illinois Press, Urbana, pp. 41-53.

With J. M. Higbee

Cytomegalic inclusion disease in Minnesota swine. *Minnesota Veterinarian*, 10, 2:16-20.

CONROY, JAMES D., Associate Professor

Articles

With T. J. Harrio, L. C. Helper

Carcinoma of the orbit. *Illinois Veterinarian*, 13, 5:10-11.

With P. D. Beamer

The development of cutaneous and oral pigmentation in Labrador retriever fetuses (*Canis familiaris*). *Journal of Investigative Dermatology*, 54, 4:304-15.

With B. V. Hall

Ultrastructure of canine fetal melanocytes. *American Journal of Veterinary Research*, 31, 12:2209-23.

With N. D. Levine, E. Small

Visceral leishmaniasis in a fennec fox (*Fennecue zerda*). *Pathologia Veterinaria*, 7, 2:163-70.

CULLINAN, LINDA V. McDUGALD,

Research Associate

Articles

With S. Panem, W. H. Kirsten

Structural proteins of murine erythroblastosis virus. *International Journal of Cancer*, 5: 64-71.

FERRIS, DEAM H., Associate Professor

Articles

Transmissible gastroenteritis of swine: some recent patterns of occurrence in Illinois. *Illinois Research*, 12, 2:16-17.

Report on TGE in Illinois: Where are we heading with TGE? *Illinois Veterinarian*, 13, 4:13-17.

With J. R. Reilly, L. E. Hanson

Experimentally induced predator chain transmission of *Leptospira grippotyphosa* from rodents to wild marsupialia and carnivora. *American Journal of Veterinary Research*, 31, 8:1443-48.

With E. Caletti, M. Ristic

Etiologic studies of TGE in swine, *Ibid.*, 11:2013-17.

Bulletins and Technical Reports

Autotutorial strategies and methods. Civil Engineering Press, Champaign, Illinois, 110 pp.

FITZGERALD, PAUL R., Professor

Articles

Chemotherapy of coccidiosis in ruminants. *Journal of Parasitology*, 56, 4 (Sec. 2): 101.

New findings on the life cycle of *Eimeria stiedae*. *Ibid.*, pp. 100-1.

Development of *Eimeria stiedae* in avian embryos. *Ibid.*, 6:1252.

With M. E. Mansfield

Visceral larva migrans (*Toxocara canis*) in calves. *American Journal of Veterinary Research*, 31, 3:561-65.

HANSON, LYLE E., Professor and Head of

Department

Articles

Swine leptospirosis, etiology, symptoms, diagnosis and control. In *Proceedings of the symposium on effect of disease and stress on reproductive efficiency in swine*, Extension Service, University of Nebraska, Lincoln, pp. 72-78.

With R. J. Martin, R. W. Gibbons,

P. R. Schnurrenberger

Equine leptospirosis. In *Proceedings of the 73rd annual meeting of the United States Animal Health Association*, Milwaukee, Wisconsin, pp. 169-80.

With P. L. Taylor, J. Simon

Serologic, pathologic and immunologic features of experimentally induced leptospiral nephritis in dogs. *American Journal of Veterinary Research*, 31, 6:1033-49.

With J. R. Reilly, D. H. Ferris

Experimentally induced predator chain transmission of *Leptospira grippotyphosa* from rodents to wild marsupialia and carnivora. *Ibid.*, 8:1443-48.

With P. R. Schnurrenberger, R. J. Martin

Leptospirosis: long-term surveillance on an Illinois farm. *American Journal of Epidemiology*, 92, 4:223-39.

With D. N. Tripathy, W. L. Myers

Passive hemagglutination test with fowlpox virus. *Avian Diseases*, 14, 1:29-38.

Detection of fowlpox virus antigen in tissue culture by fluorescent antibody technique. *Ibid.*, 4:810-12.

IVENS, VIRGINIA R., Instructor

Books

With N. D. Levine

The coccidian parasites (Protozoa, Sporozoa) of ruminants. University of Illinois Press, Urbana, 278 pp.

KILLINGER, ARDEN H., Associate Professor

Articles

Listeria monocytogenes. In *Manual of clinical microbiology*, ed. by Blair, Lennette, Truant, American Society for Microbiology, Bethesda, Maryland, pp. 95-100.

With M. E. Mansfield

Epizootiology of listeric infection in sheep. *Journal of the American Veterinary Medical Association*, 157, 10:1318-24.

LEMAN, ALLEN D., Instructor

Books Edited

Swine health: common diseases affecting baby pigs. Cooperative Extension Service, University of Illinois, Urbana, 68 pp.

Articles

Transmissible gastroenteritis. In *Swine health: common diseases affecting baby pigs*, ed. by A. D. Leman, Cooperative Extension Service, University of Illinois, Urbana, pp. 1-17.

Enteric colibacillosis. *Ibid.*, pp. 17-34.

Responsibilities of the veterinarian in the proper use of feed additives. In *Swine feed additive symposium proceedings*, ed. by M. Whitekar, University of Kentucky, Lexington, pp. 28-31.

Current knowledge and potential of synchronized and accelerated lambing. In *Proceedings of north central livestock specialist conference*, ed. by the Federal Extension Service, Washington, D.C., pp. 206-9.

Estrous control in swine. *Illinois Veterinarian*, 13, 2:14-15.

Artificial insemination of swine. *Ibid.*, 8: 10-12.

Control of respiratory diseases of swine. *Ibid.*, 11:7-10.

With P. J. Dziuk, B. B. Doane

Synchronization of estrus and shortening of the interval between lambings by induction

of estrus. *Journal of the American Veterinary Medical Association*, 157, 11:1574-76.

Bulletins and Technical Reports

Estrous control and artificial insemination of swine. Cooperative Extension Service, University of Illinois, Urbana, 8 pp.

Controlling swine respiratory diseases. *Ibid.*, 4 pp.

Reviews

Swine science, by M. E. Ensminger. *Journal of the American Veterinary Medical Association*, 157, 2:230.

LEVINE, NORMAN D., Professor

Books

With V. Ivens

The coccidian parasites (Protozoa, Sporozoa) of ruminants. University of Illinois Press, Urbana, 278 pp.

Articles

Toxoplasmosis and sarcocystis. In *Bovine medicine and surgery; a text and reference work*, ed. by W. J. Gibbons, E. J. Catcott, J. F. Smithcors, American Veterinary Publications, Wheaton, Illinois, pp. 227-30.

Harendranath Ray, 1898-1969. *Journal of Protozoology*, 16, 4:776.

Protozoan parasites of nonhuman primates as zoonotic agents. *Laboratory Animal Care*, 20, 2:377-82.

Integrated control of disease vectors. Introductory remarks. *American Zoologist*, 10, 4:565-66.

Integrated control of snails. *Ibid.*, pp. 579-82.

With P. D. Beamer, J. Simon

A disease of chickens associated with *Arthrocytes galli* n. g., n. sp., an organism of uncertain taxonomic position. In *H. D. Srivastava commemorative volume*, ed. by K. S. Singh, University of Lucknow, Lucknow, India, pp. 429-34.

With F. L. Andersen, P. A. Boatman

Survival of third-stage *Trichostrongylus colubriformis* larvae on pasture. *Journal of Parasitology*, 56, 2:209-32.

With K. S. Todd, Jr., C. C. Whiteside

An evaluation of the Baermann technic using infective larvae of *Haemonchus contortus*. *Proceedings of the Helminthological Society of Washington*, 37, 1:57-63.

With K. S. Todd, Jr., C. C. Whiteside

Moisture stress effects on survival of infective *Haemonchus contortus* larvae. *Journal of Nematology*, 2, 4:330-33.

With J. D. Conroy, E. Small

Visceral leishmaniasis in a fennec fox (*Fennecus zerda*). *Pathologia Veterinaria*, 7, 2:163-70.

Reviews

Parasitic protozoa, by J. R. Baker. *Journal of Protozoology*, 16, 4:763.

Progress in protozoology. In *Abstracts of papers read at the third international congress on protozoology, Leningrad, 2-10 July, 1969*, ed. by A. A. Strelkov, K. M. Sukhanova and I. B. Raikov, *Ibid.*, 17, 1:70.

Veterinary helminthology, by A. M. Dunn. *Journal of the American Veterinary Medical Association*, 156, 10:1475-76.

Catalogue. Eimeriidae (Protozoa, Sporozoa). Supplementum I, by L. P. Pellérdy. *Journal of Parasitology*, 56, 3:539.

MANSFIELD, MANFORD E., Professor

Articles

With G. T. Woods, R. C. Meyer

Benefits of preconditioning feeder cattle. *Modern Veterinary Practice*, 51, 12:46-48.

With G. T. Woods, J. Krone

Virological examination of bovine mammary lymph nodes. *Canadian Journal of Comparative Medicine*, 34, 4:354-55.

With A. H. Killinger

Epizootiology of listeric infection in sheep. *Journal of the American Veterinary Medical Association*, 157, 10:1318-24.

With P. R. Fitzgerald

Visceral larva migrans (*Toxocara canis*) in calves. *American Journal of Veterinary Research*, 31, 3:561-65.

With P. H. Silverman, H. L. Scott

Haemonchus contortus infection in sheep: effects of various levels of primary infections on nontreated lambs. *Ibid.*, 5:841-57.

MARTIN, RUSSELL J., Assistant Professor

Articles

With P. R. Schnurrenberger, G. T. Woods

Serologic evidence of human infection with swine influenza virus. *American Review of Respiratory Diseases*, 102:356-61.

With P. R. Schnurrenberger, G. W. Lantis

Rabies in Illinois foxes. *Journal of the American Veterinary Medical Association*, 157, 10:1331-35.

With P. R. Schnurrenberger, J. M. Koch

Rabies in Illinois skunks. *Ibid.*, pp. 1336-42.

With P. R. Schnurrenberger, G. L. Meerdink

Rabies in Illinois farm animals. *Ibid.*, 156, 10:1455-59.

With L. E. Hanson, R. W. Gibbons,

P. R. Schnurrenberger
Equine leptospirosis. In *Proceedings of the 73rd annual meeting of the United States Animal Health Association*, Milwaukee, Wisconsin, pp. 169-80.

With L. E. Hanson, P. R. Schnurrenberger

Leptospirosis: long-term surveillance on an Illinois farm. *American Journal of Epidemiology*, 92, 4:223-39.

MEYER, RICHARD C., Associate Professor

Articles

Short course — virology: lesson I. *Illinois Veterinarian*, 13, 3:10-13.

Short course — virology: lesson II. *Ibid.*, 5:12-14.

Short course — virology: lesson III. *Ibid.*, 7:14-18.

With G. T. Woods, M. E. Mansfield

Benefits of preconditioning feeder cattle. *Modern Veterinary Practice*, 51, 12:46-48.

MYERS, WALTER L., Associate Professor

Articles

With D. N. Tripathy, L. E. Hanson

Passive hemagglutination test with fowlpox virus. *Avian Diseases*, 14, 1:29-38.

Detection of fowlpox virus antigen in tissue culture by fluorescent antibody technique. *Ibid.*, 4:810-12.

With R. Kerman, D. Segre

The role of immune and natural specific antibodies in immunologic paralysis and immunity of mice to pneumococcal polysaccharide type III. *Journal of Immunology*, 104, 3:656-64.

Serological identification of species of origin

- of sausage meats. *Journal of Food Science*, 35, 2:150-55.
- With D. L. Dawe, D. Segre
Enhancement of the immune response in rabbits by administration of immunoglobulin G. *Immunology*, 18, 6:897-907.
- PICKARD, JESSE R., Professor
- Articles
Preconditioning—a promise for the future. *Illinois Veterinarian*, 13, 7:20-22.
- PILCHARD, EDWIN I., Assistant Professor
- Articles
With E. E. Gold, H. K. Gray
A study of delayed hypersensitivity of guinea pigs to vaccinia virus. *International Archives of Allergy and Applied Immunology*, 37:337-43.
- REYNOLDS, HARRY A., JR., Associate Professor
- Articles
Pathological changes in virus enteritis of mink. *Canadian Journal of Comparative Medicine*, 34, 2:155-63.
- RHOADES, HARRY E., Assistant Professor
- Articles
Effects of 20 years' storage on lyophilized cultures of bacteria, molds, viruses and yeasts. *American Journal of Veterinary Research*, 31:1867-70.
- With S. P. Saxena
Mycosporum canis infection in a rabbit. *Sabouraudia*, 8:235-36.
- With G. T. Woods, J. Simon, C. Pillai
Exposure of primary colostrum-deprived SPF pigs to *Bordetella bronchiseptica*. In *Proceedings of the 12th annual midwest inter-professional seminar on diseases common to animals and man*, Brookings, South Dakota, pp. 21-22.
- RISTIC, MIODRAG, Professor
- Articles
Babesiosis and theileriosis. In *Immunity to parasitic animals*, ed. by Jackson and Singer, Appleton-Century-Crofts Publications, New York, vol. 2, pp. 831-70.
- Anaplasmosis. In *Bovine medicine and surgery and herd health management*, ed. by Gibbons, Catcott, and Smithcors, American Veterinary Publications, Inc., Wheaton, Illinois, pp. 191-206.
- Babesiosis. *Ibid.*, pp. 208-19.
- Immunodiagnosis of bovine anaplasmosis and babesiosis. In *Proceedings of the second international congress of parasitology*, Washington, D.C., p. 465.
- Babesia species from an intact (spleen *in situ*) human case of babesiosis: isolation and definition of pathogenic, serologic, and ultrastructural properties. *Ibid.*, pp. 465-66.
- With H. Morris
Serum opsonins in anaplasmosis and their *in vitro* effect of erythrophagocytosis. *Zeitschrift für Tropenmedizin und Parasitologie*, 21:190-97.
- With E. Caletti, D. H. Ferris
Etiologic studies of TGE in swine. *American Journal of Veterinary Research*, 31, 11: 2013-17.
- With N. A. Popovic
Diagnosis of canine babesiosis by a gel precipitation test. *Ibid.*, 12:2201-4.
- With C. J. Welter
Laboratory and field trials with an attenuated *Anaplasma marginale* vaccine. In *Proceedings of the 73rd annual meeting of the United States Animal Health Association*, Milwaukee, Wisconsin, pp. 122-30.
- SCHNURRENBERGER, PAUL R., Associate Professor
- Articles
With R. J. Martin, G. L. Meerdink
Rabies in Illinois farm animals. *Journal of the American Veterinary Medical Association*, 156, 10:1455-59.
- With G. T. Woods, R. J. Martin
Serologic evidence of human infection with swine influenza virus. *American Review of Respiratory Diseases*, 102:356-61.
- With L. E. Hanson, R. J. Martin
Leptospirosis: long-term surveillance on an Illinois farm. *American Journal of Epidemiology*, 92, 4:223-39.
- With R. J. Martin, G. W. Lantis
Rabies in Illinois foxes. *Journal of the American Veterinary Medical Association*, 157, 10:1331-35.
- With R. J. Martin, J. M. Koch
Rabies in Illinois skunks. *Ibid.*, pp. 1336-42.
- With L. E. Hanson, R. J. Martin, R. W. Gibbons
Equine leptospirosis. *Proceedings of the 73rd annual meeting of the United States Animal Health Association*, Milwaukee, Wisconsin, pp. 169-80.
- SEGRE, DIEGO, Professor
- Articles
With A. B. Karpas, W. L. Myers
Serologic identification of species of origin of sausage meats. *Journal of Food Science*, 35, 2:150-55.
- With D. L. Dawe, W. L. Myers
Enhancement of the immune response in rabbits by administration of immunoglobulin G. *Immunology*, 18, 6:897-907.
- With R. Kerman, W. L. Myers
The role of immune and natural specific antibodies in immunologic paralysis and immunity of mice to pneumococcal polysaccharide type III. *Journal of Immunology*, 104, 3:656-64.
- With R. Kerman
Anti-pneumococcal type III hemolytic plaques in mice; cellular response in immunity and immunologic paralysis. *Ibid.*, 5:1262-66.
- SILVERMAN, PAUL H., Professor
See Zoology.
- SIMON, JOSEPH, Professor
- Articles
With P. D. Beamer, N. D. Levine
A disease of chickens associated with *Arthrocystis galli* n. g., n. sp., an organism of uncertain taxonomic position. In *H. D. Srivastava commemorative volume*, ed. by K. S. Singh, University of Lucknow, Lucknow, India, pp. 429-34.
- With J. C. Thurmon
A field study of twelve sows affected with MMA syndrome. *Veterinary Medicine/Small Animal Clinician*, 65:263-72.
- With B. G. Harmon, D. E. Becker, A. H. Jensen, D. H. Baker
Effect of source and level of dietary phos-

- phorus on structure and composition of tur-
 binate and long bones. *Journal of Animal
 Science*, 30:742-47.
- With A. B. Stone**
 A psammous meningioma in a dog. *Journal
 of the American Veterinary Medical Asso-
 ciation*, 156:1574-76.
- With L. C. Helper**
 Ocular disease associated with blastomycosis
 in dogs. *Ibid.*, 157:922-25.
- With P. L. Taylor, L. E. Hanson**
 Serologic pathologic and immunologic fea-
 tures of experimentally induced leptospiral
 nephritis in dogs. *American Journal of Vet-
 erinary Research*, 31:1033-49.
- With H. E. Rhoades, G. T. Woods, C. Pillai**
 Exposure of primary clostrum-deprived SPF
 pigs to *Bordetella bronchiseptica*. *Proceed-
 ings of the 12th annual midwest interpro-
 fessional seminar on diseases common to
 animals and man*, Brookings, South Da-
 kota, pp. 21-22.
- TODD, KENNETH S., JR.**, Assistant
 Professor
- Articles**
 Flotation—quick easy method for fecal
 examination. *Illinois Veterinarian*, 13:4.
- With D. L. Lepp, B. W. O'Gara**
 Redescription of *Eimeria augusta* Allen, 1934
 and *E. bonasae* Allen, 1934 (Protozoa:
 Eimeriidae) from the ruffed grouse (*Bonasa
 umbellus*). *Journal of Protozoology*, 17:
 427-29.
- With N. D. Levine, F. L. Andersen**
 An evaluation of the Baermann technic using
 infective larvae of *Haemonchus contortus*.
*Proceedings of the Helminthological Soci-
 ety of Washington*, 37, 1:57-63.
- With N. D. Levine, C. C. Whiteside**
 Moisture stress effects on survival of infec-
 tive *Haemonchus contortus* larvae. *Journal
 of Nematology*, 2:330-33.
- With C. A. Tryon, Jr.**
Eimeria fitzgeraldi n. sp. from the northern
 pocket gopher, *Thomomys talpoides*. *Journal
 of Wildlife Diseases*, 6:107-8.
- TOMPKINS, WAYNE A. F.**, Assistant
 Professor
- Articles**
With C. Adams, W. E. Rawls
 An *in vitro* measure of cellular immunity to
 fibroma virus. *Journal of Immunology*, 104,
 2:502-10.
- With N. A. Crouch, S. S. Tevethia,
 W. E. Rawls**
 Characterization of surface antigen on cells
 infected by fibroma virus. *Ibid.*, 105, 5:
 1181-89.
- With J. M. Zarling, W. E. Rawls**
In vitro assessment of cellular immunity to
 vaccinia virus: contribution of lymphocytes
 and macrophages. *Infection and Immunity*,
 2, 6:783-90.
- With W. E. Rawls**
 Role of the macrophage in immune-mediated
 migration inhibition. In *Bacteriological pro-
 ceedings*, Boston, Massachusetts, p. 173.
- TRIPATHY, DEOKI N.**, Research Associate
- Articles**
With L. E. Hanson, W. L. Myers
 Passive hemagglutination test with fowlpox
 virus. *Avian Diseases*, 14, 1:29-38.
- Detection of fowlpox virus antigen in tissue
 culture by fluorescent antibody technique.
Ibid., 4:810-12.
- VAVRA, JIRI**, Visiting Research Associate
 Professor
- Articles**
With A. H. Undeen
Nosema algerae n. sp. (Cnidospora, Micro-
 sporida), a pathogen in a laboratory colony
 of *Anopheles stephensi* Liston (Diptera,
 Culicidae). *Journal of Protozoology*, 17, 2:
 240-49.
- With R. Codreanu**
 The structure and ultrastructure of the micro-
 sporidan *Telomyxa glugeiformis* Léger and
 Hesse, 1910, parasite of *Ephemera danica*
 (Müll) nymphs. *Ibid.*, 3:374-84.
- With K. Kucera**
Pneumocystis carinii Delanoë, its ultrastruc-
 ture and ultrastructural affinities. *Ibid.*, pp.
 463-83.
- With R. E. McLaughlin**
 The fine structure of some developmental
 stages of *Mattesia grandis* McLaughlin
 (Sporozoa, Neogregarinida), parasite of the
 boll weevil *Anthonomus grandis* Boheman.
Ibid., pp. 483-96.
- WATRACH, ADOLF M.**, Professor
- Articles**
 The structure and development of canine
 papilloma virus. *Proceedings of the VIIth
 International Congress on Electron Microsc-
 ophy, Grenoble, France*, 3:943-44.
- With E. Small, M. T. Case**
 Canine papilloma: progression of oral papil-
 loma to carcinoma. *Journal of the National
 Cancer Institute*, 45:915-20.
- With C. R. Rossi**
 Studies of laryngotracheitis virus in avian
 tissue cultures, II: Deficient adsorption of
 a strain of laryngotracheitis virus. *Archives
 für die Gesamte Virusforschung*, 31:
 313-20.
- Studies of laryngotracheitis virus in avian
 tissue cultures, III: Enhancement of infec-
 tivity of diethylaminoethyl-dextran. *Applied
 Virology*, 19:932-36.
- With G. T. Woods, P. Feorino, M. Zinzilieta**
 Serological, biochemical and structural prop-
 erties of three bovine picornaviruses. *Canad-
 ian Journal of Comparative Medicine*, 34,
 2:122-25.
- WOODS, GEORGE T.**, Professor
- Articles**
With P. R. Schnurrenberger, R. J. Martin
 Serologic evidence of human infection with
 swine influenza virus. *American Review
 of Respiratory Diseases*, 102:356-61.
- With A. M. Watrach, P. Feorino, M. Zinzilieta**
 Serological, biochemical, and structural prop-
 erties of three bovine picornaviruses. *Canad-
 ian Journal of Comparative Medicine*, 34,
 2:122-25.
- With M. E. Mansfield, J. Krone**
 Virological examination of bovine mammary
 lymph nodes. *Ibid.*, 4:354-55.
- With M. E. Mansfield, R. C. Meyer**
 Benefits of preconditioning feeder cattle. *Mod-
 ern Veterinary Practice*, 51, 12:46-48.
- With H. E. Rhoades, J. Simon, C. Pillai**
 Exposure of primary clostrum-deprived SPF
 pigs to *Bordetella bronchiseptica*. In *Pro-
 ceedings of the 12th annual Midwest inter-
 professional seminar on diseases common to*

animals and man, Brookings, South Dakota, pp. 21-22.

VETERINARY PHYSIOLOGY AND PHARMACOLOGY

ANDERSON, JOHN J. B., Assistant Professor

Books Edited

Parturient hypocalcemia. Academic Press, New York, 276 pp.

Articles

With A. R. Twardock, Y. H. Kuo, W. C. Crackel

Measurement of calcium kinetics in dairy goats. *Ibid.*, pp. 135-45.

Effects of high and low dietary calcium on the size and half-life of the readily exchangeable calcium pool in female goats under two different feeding conditions. *Ibid.*, pp. 147-58.

With J. W. Greenfield, J. R. Posada, W. C. Crackel

Effect of estrogen on bone mineral turnover in mature female rats as measured by strontium-85. *Proceedings of Society for Experimental Biology and Medicine*, 135, 3:883-86.

AUSTIN, MILDRED K., Research Associate

Articles

With A. R. Twardock

Calcium and strontium transfer in the perfused guinea pig placenta. *American Journal of Physiology*, 219:540-45.

CRACKEL, W. C., Research Associate

Articles

With A. R. Twardock, J. J. B. Anderson, Y. H. Kuo

Measurement of calcium kinetics in dairy goats. In *Parturient hypocalcemia*, ed. by Anderson, Academic Press, Inc., New York, pp. 135-45.

Effects of high and low dietary calcium on the size and half-life of the readily exchangeable calcium pool in female goats under two different feeding conditions. *Ibid.*, pp. 147-58.

With J. J. B. Anderson, J. W. Greenfield, J. R. Posada

Effect of estrogen on bone mineral turnover in mature female rats as measured by strontium-85. *Proceedings of Society for Experimental Biology and Medicine*, 135, 3:883-86.

DOWNEY, H. FRED, Assistant Professor

Articles

With E. S. Kirk

Indications from coronary lymph and early extraction data that steady-state uptake of ⁴²K is not primarily limited by the capillary wall. In *Capillary permeability* (Alfred Benzon Symposium II), ed. by Crone and Lassen, Munksgaard, Copenhagen, pp. 326-34.

HUBER, WILLIAM G., Professor

Articles

The public health hazards associated with non-medical and animal health usage of antimicrobial drugs. *Pure and Applied Chemistry*, 21: 377-88.

LINK, ROGER P., Professor and Head of Department

Articles

With M. A. Norby

Effect of halothane anesthesia on liver function in the horse. *Veterinary Medicine*, 65: 946-49.

McQUEEN, RALPH D., Associate Professor

Articles

With D. M. Witherspoon

Development of equine peritoneal fistula device. *American Journal of Veterinary Research*, 31, 2:387-91.

With E. M. Breznock

Adrenocortical function during aging in the dog. *Ibid.*, 7:1269-73.

NORBY, MARVIN A., Instructor

Articles

With R. P. Link

Effect of halothane anesthesia on liver function in the horse. *Veterinary Medicine*, 65: 946-49.

SLOAN, KENNETH W., Associate Professor

Articles

With H. G. Seydel, S. Berk

Temporary spontaneous regression of isologous tumor transplants in irradiated tissue. *The American Journal of Roentgenology, Radiation Therapy and Nuclear Medicine*, 58, 1:178-83.

TWARDOCK, A. ROBERT, Professor

Articles

Radiation and radionuclides (radiosotopes) in animal physiology. In *Duke's physiology of domestic animals*, ed. by M. J. Swenson, Cornell University Press, Ithaca, New York, pp. 1385-1426.

With Y. H. Kuo, W. C. Crackel, J. J. B. Anderson

Measurement of calcium kinetics in dairy goats. In *Parturient hypocalcemia*, ed. by Anderson, Academic Press, Inc., New York, pp. 135-45.

Effects of high and low dietary calcium on the size and half-life of the readily exchangeable calcium pool in female goats under two different feeding conditions. *Ibid.*, pp. 147-58.

With M. K. Austin

Calcium and strontium transfer in the perfused guinea pig placenta. *American Journal of Physiology*, 219:540-45.

VICE-PRESIDENT'S OFFICE

JOHNSON, ELDON L., Vice-President of the University

Articles

What is right with higher education? In *Proceedings, forty-ninth annual meeting, Tennessee College Association*, pp. 15-21.

ZOOLOGY

ALGER, NELDA E., Associate Professor

Articles

With A. H. Undeen

The control of a microsporidian, *Nosema* sp., in an anopheline colony by an egg rinsing technique. *Journal of Invertebrate Pathology*, 15, 3:321-27.

With D. T. Spira, P. H. Silverman

Inhibition of rodent malaria in mice by rifampicin. *Nature*, 227:381-83.

BANKS, EDWIN M., Professor

Articles

With V. H. Deneberg

Techniques of measurement and evaluation. In *The behaviour of domestic animals* (Secord ed.), ed. by E. S. E. Hafez, Bailliere, Tindall and Cassell, London, 41 pp.

With L. H. Vick

The oestrous cycle and related behavior in the Mongolian gerbil *Meriones unguiculatus* (Milne-Edwards). *Communications in Behavioral Biology*, 3:117-24.

With D. M. Quadagno, J. T. Allin, R. J. Brooks, R. D. St. John

Some aspects of the reproductive biology of *Baiomyx taylori* ater. *American Midland Naturalist*, 84:550-51.

Reviews

The Tenrecs, a study in mammalian behavior and evolution, by J. Eisenberg and E. Gould. *Science*, 169:464.

Man and aggression, ed. by M. F. Ashley Montagu. *Quarterly Review of Biology*, 45:114-15.

BENNETT, GEORGE W., Professor

Books

Management of lakes and ponds. Van Nostrand Reinhold Co., New York, 375 pp.

Articles

With H. W. Adkins, William F. Childers

Largemouth and other fishes in Ridge Lake, Illinois, 1941-1963. *Illinois Natural History Survey Bulletin* 30, 1:1-67.

EADES, DAVID C., Associate Professor

Articles

Theoretical and procedural aspects of numerical phyletics. *Systematic Zoology*, 19, 2:142-71.

FRAZZETTA, THOMAS H., Assistant Professor

Articles

From hopeful monsters to bolyerine snakes? *American Naturalist*, 104, 935:55-72.

With R. Estes, E. E. Williams

Studies on the fossil snake *Dinilysia patagonica* Woodward: Part I. Cranial morphology. *Bulletin of the Museum of Comparative Zoology, Harvard*, 140, 2:25-73.

Studies on the fossil snake *Dinilysia patagonica* Woodward: Part II. Jaw machinery in the earliest snakes. *Forma et Functio*, 3:205-21.

GETZ, LOWELL L., Professor

Articles

Habitat of the meadow vole during a "population low." *The American Midland Naturalist*, 83, 2:455-61.

Botfly infestations in *Microtus pennsylvanicus* in southern Wisconsin. *The American Midland Naturalist*, 84, 1:187-97.

Influence of vegetation on the local distribution of the meadow vole in southern Wisconsin. *University of Connecticut Occasional Papers (Biological Series)*, 1, 4:213-41.

GHENT, ARTHUR W., Professor

Articles

Principles of experimental design. In *The study of botany*, by P. Adams, J. J. W. Baker and G. E. Allen, Addison-Wesley Publishing Co., Reading, Massachusetts, pp. 40-50.

HALL, B. VINCENT, Professor

Articles

With J. D. Conroy

Ultrastructure of canine fetal melanocytes. *American Journal of Veterinary Research*, 31, 12:2209-23.

HEATH, JAMES E., Associate Professor

See Physiology and Biophysics.

HIRSCH, JERRY, Professor

See Psychology.

HOFFMEISTER, DONALD F., Professor

Articles

The seasonal distribution of bats in Arizona: a case for improving mammalian range maps. *The Southwestern Naturalist*, 15, 1:11-22.

Museums A.D. 2000. The Midwest Museums Conference, 1969, Special Publication.

INGLE, LESTER, Professor

Books

Animal biology (rev. ed.). Stipes Publishing Co., Champaign, Illinois, 407 pp.

KENDEIGH, S. CHARLES, Professor

Articles

Energy requirements for existence in relation to size of bird. *Condor*, 70, 1:60-65.

KIEFFER, GEORGE H., Assistant Professor

Articles

Toward a biological awareness. *CUEBS News*, 6, 4:1-7.

With L. Satterthwaite

The concept of macromolecules. *Turtax News*, May-June:624-25.

Reviews

Creative biology teaching, by Harding, Volker, Fagle. *Journal Research in Science Teaching*, 7, 2:166.

KIRK, ROBERT L., Visiting Professor

Articles

With R. Ananthkrishnan, N. M. Blake

Further studies on the distribution of genetic variants of lactate dehydrogenase in India. *Medical Journal of Australia*, 2, October 24:787-89.

With A. G. Steinberg

GM and INV types of Aborigines in the northern territory of Australia. *Archaeology and Physical Anthropology in Oceania*, 5, 2:163-71.

With H. Kinns, N. E. Morton

Interaction between the ABO blood group and haptoglobin systems. *American Journal of Human Genetics*, 22, 4:384-89.

With S. R. Das, B. N. Mukherjee, S. K. Das, R. Ananthkrishnan, N. M. Blake

LDH variants in India. *Humangenetik*, 9, 2:107-9.

With S. R. Das, B. N. Mukherjee, S. K. Das, N. M. Blake

The distribution of some enzyme group systems among Bengalis. *Indian Journal of Medical Research*, 58, July:866-75.

KITZMILLER, JAMES B., Professor

Articles

Mosquito cytotoxonomy. *Journal of Parasitology*, 56, 4:188-89.

With T. Tadano, R. D. Kreuzer, S. L. Narang
The salivary chromosomes of *Anopheles punctimaculata*. *Revista Brasileira de Malariologia e Doenças Tropicais*, 21:559-70.

With G. Davidson

Application of new procedures to control. Genetic control of *Anopheles*. *Miscellaneous Publications of the Entomological Society of America*, 7:118-29.

KLEIN, LEWIS L., Assistant Professor

Articles

Observations on copulation and seasonal reproduction of two species of spider monkeys — *Ateles belzebuth* and *A. geoffroyi*. *Folia Primatologica*, 13, 4:305-18.

LELAND, HARRY V., Assistant Professor

See Civil Engineering.

LEVINE, NORMAN D., Professor

See Veterinary Pathology and Hygiene.

MacLEAN, STEPHEN F., JR., Assistant Professor

Articles

Social stimulation modifies the feeding behavior of the American robin. *The Condor*, 72, 4:499-500.

METCALF, ROBERT L., Professor and Head of Department

Articles

Role of pesticides in the integrated control of disease vectors. *American Zoologist*, 10: 583-93.

With G. Quistad, T. R. Fukuto

Insecticidal, anticholinesterase, and hydrolytic properties of phosphoramidothiolates. *Journal Agricultural Food Chemistry*, 18: 189-95.

With S. P. Shrivastava, G. P. Georghion, T. R. Fukuto

Carbamate resistance in mosquitoes. *Bulletin World Health Organisation*, 42:931-42.

With G. M. Booth

Phenylthioacetate: a useful substrate for the histochemical and colorimetric detection of cholinesterase. *Science*, 170:455-57.

Histochemical evidence for the localized inhibition of cholinesterase in the house fly. *Annals Entomological Society America*, 63: 197-204.

With L. Brattsten

The synergistic ratio of carbaryl with piperonyl butoxide as an indicator of the distribution of multifunction oxidases in the Insecta. *Journal Economic Entomology*, 63: 101-4.

With R. A. Metcalf

Effects of isosteres of 2-heptanone on the alarm behavior of the ant *Conomyrma pyramica*. *Annals Entomological Society America*, 63:34-35.

With I. P. Kapoor, R. F. Nystrom, G. K. Sangha

Comparative metabolism of methoxychlor, methiochlor, and DDT in mouse, insects, and in a model ecosystem. *Journal Agricultural Food Chemistry*, 18:1145-52.

NALBANDOV, ANDREW V., Professor

See Animal Science.

NANNEY, DAVID L., Professor

Temperature effects on cortical characteristics of Tetrahymena. *Journal of Experimental Zoology*, 175:383-90.

PROSSER, C. LADD, Professor

See Physiology and Biophysics.

SALMON, MICHAEL, Associate Professor

Articles

With B. A. Nolan

The behavior and ecology of snapping shrimp. *Forma et Functio*, 2, 4:289-335.

SANDERSON, GLEN C., Professor

Articles

The raccoon. In *Alive in the wild*, ed. by Victor H. Cahalane. Prentice-Hall, Inc., Englewood Cliffs, New Jersey, pp. 93-97.

With F. C. Bellrose

Wildlife habitat management of wetlands. *Suplemento des Anais da Academia Brasileira de Ciencias*, 41:153-204.

With G. A. Grau, J. P. Rogers

Age determination of raccoons. *Journal of Wildlife Management*, 34, 2:364-72.

With F. Aliev

The American mink, *Mustela vison* (Schreber, 1777), in the USSR. In *Reports on small mammals*, Bayerischer Landwirtschaftsverlag GmbH, Lothstrasse 29, 8 Munich 13, Germany, 18, 2:122-27.

With G. L. Storm

Effect of medroxyprogesterone acetate (provera) on productivity in captive foxes. *Journal of Mammalogy*, 50, 1:147-49.

SILVERMAN, PAUL H., Professor

Articles

Vaccination: progress and problems. In *Immunity to parasitic animals*, ed. by G. J. Jackson, R. Herman and I. Singer, Appleton-Century-Crofts, New York, vol. 2: 1165-85.

With D. T. Spira, C. Gaines

Antihymocyte serum effects on *Plasmodium berghei* infection in rats. *Immunology*, 19, 5:759-66.

With L. E. D'Antonio, D. T. Spira, R. C. Fu, D. M. Dagnillo

Malaria resistance: artificial induction with a partially purified plasmodial fraction. *Science*, 168:1117-18.

With M. E. Mansfield, H. L. Scott

Haemonchus contortus infection in sheep: I. Effects of various levels of primary infection on untreated lambs. *American Journal of Veterinary Research*, 31, 5:841-57.

With N. H. Ozerol

Further characterization of active metabolites from histotropic larvae of *Haemonchus contortus* cultured in vitro. *Journal of Parasitology*, 56, 6:1199-1205.

SMALL, EUGENE B., Assistant Professor

Articles

With V. S. Ranganathan

The direct study of polluted stream ciliated protozoa via SEM. In *Scanning electron microscopy 1970: Proceedings 3rd SEM Symposium*, pp. 177-84.

With I. Zagon

Carchesium polypinum: somatic and buccal structure analysis after protargol staining. *Transactions of the American Microscopical Society*, 89, 3:443-49.

SMITH, PHILIP W., Professor

Articles

The Illinois Natural History Survey and its

- faunistic program. *Journal of the Entomological Society of Australia* (N. S. W.), 6:1-6.
- With R. T. Schaaf, Jr.
Geographic variation in the pickerel frog. *Herpetologica*, 26, 2:240-54.
- With L. M. Page
The life history of the dusky darter, *Percina sciera*, in the Embarras River, Illinois. *Illinois Natural History Survey Biological Notes*, 69:1-15.
- SWEENEY, DARYL C., Associate Professor
Primitive nervous systems, by Thomas Lentz. *Animal Behaviour*, 18:605.
- UNZICKER, JOHN D., Assistant Professor
- Articles
The spider *Loxosceles rufescens* (Dufour) in Illinois: a correction. *Entomological News*, 81:188.
- With G. L. Rotramel
A new parasite record for Opiliones (Arachnida). *Transactions of the Illinois Academy of Science*, 63, 2:223-24.
- With L. Aggus, L. O. Warren
A preliminary list of the Arkansas Trichoptera. *Journal of the Georgia Entomological Society*, 5, 3:167-74.
- WATTERSON, RAY L., Professor
- Books
With R. M. Sweeney
Laboratory studies of chick, pig and frog embryos (second ed.). Burgess Publishing Co., Minneapolis, Minnesota, 179 pp.
- Articles
Embryology and development: invertebrate embryology. In *Encyclopaedia Britannica*, ed. by William Benton, Encyclopaedia Britannica, Chicago, 9 pp.
- With F. R. Voorhees
Development of lateral cervical fat organs in the chick with emphasis on relationships to the adjacent *musculus complexus*. *Transactions Illinois State Academy of Science*, 63, 4:415-27.
- With A. G. Mehall
Some effects of hypophysectomy and anterior pituitary chorioallantoic grafts to hypophysectomized chick embryos on bone development. *American Zoologist*, 10, 4:538.
- WHITT, GREGORY S., Assistant Professor
- Articles
Directed assembly of polypeptides of the isozymes of lactate dehydrogenase. *Archives of Biochemistry and Biophysics*, 138, 1: 352-54.
- Developmental genetics of the lactate dehydrogenase isozymes of fish. *Journal of Experimental Zoology*, 175, 1:1-36.
- Genetic variation of supernatant and mitochondrial malate dehydrogenase isozymes in the teleost *Fundulus heteroclitus*. *Experientia*, 26, 7:734-41.
- With R. S. Holmes
Developmental genetics of the esterase isozymes of *Fundulus heteroclitus*. *Biochemical Genetics*, 4, 4:471-80.
- With G. M. Booth
Localization of lactate dehydrogenase activity in the cells of the fish (*Xiphophorus helleri*) eye. *Journal of Experimental Zoology*, 174, 2:215-24.
- Histochemical specificity of cholinesterases to phenylthioacetate in differentiated neural tissues of insects and teleosts. *Tissue and Cell*, 2:4.
- With F. S. Maeda
Lactate dehydrogenase gene function in the blind cave fish, *Anoptichthys jordani*, and other characins. *Biochemical Genetics*, 4, 6:727-41.
- With J. J. Horowitz
Evolution of a retinal specific lactate dehydrogenase isozyme in teleosts. *Experientia*, 26, 12:1302-4.
- Bulletins and Technical Reports
Sunfish isozymes. *Illinois Natural History Survey Reports*, Illinois Natural History Survey, Urbana, 2 pp.
- Reviews
Isoenzymes in biology and medicine, by A. L. Latner and A. W. Skillen. *Quarterly Review of Biology*, 44:407-8.
- WILLSON, MARY F., Assistant Professor
- Articles
Foraging behavior of some winter birds of deciduous woods. *Condor*, 72, 2:169-74.
- DOCTORAL DISSERTATIONS
Allin, John T. (E. M. Banks, Adviser), Motivational and functional aspects of ultrasound production by infant albino rats (*Rattus norvegicus berkenhont*).
- Brooks, Ronald J. (E. M. Banks, Adviser), Ecology and acoustic behavior of the collared lemming, *Dicrostonyx groenlandicus* (Traill).
- Hathaway, Ronald P. (F. J. Kruidenier, Adviser), The fine structure of the trematode *Aspidogaster conchicola* Von Baer, 1827.
- Karr, James R. (S. C. Kendeigh, Adviser), A comparative study of the structure of avian communities in selected tropical and temperate habitats.
- Kluger, Matthew J. (J. E. Heath, Adviser), Thermoregulation in the bat, *Eptesicus fuscus*.
- Mehall, Andrew G. (R. L. Watterson, Adviser), Capacity of anterior pituitary grafts to correct modified growth and development of selected long bones of hypophysectomized chick embryos.
- Narang, Shadi L. (J. B. Kitzmiller, Adviser), Esterase and other enzyme polymorphism in *Anopheles* mosquitos.
- Shulman, Richard W. (R. Davenport, Adviser), The distribution of RNA template within the egg and embryo of the sea urchin.
- Swanson, Curtis J. (D. C. Sweeney, Adviser), An ultrastructural, biochemical, and functional analysis of the body walls of *Paragordius varius* (Leidy), and *Gordius robustus* Leidy; (aschelminthes, nematomorpha, gordioidea).
- Wrigley, Robert E. (D. F. Hoffmeister, Adviser), Biology and systematics of the woodland jumping mouse, *Napaeozapus insignis*.
- Zimmerman, Earl G. (M. R. Lee, Adviser), Karyology, systematics, and chromosomal evolution in the genus *Sigmodon*.
- ZOONOSES RESEARCH, ILLINOIS CENTER FOR
- HERTIG, MARSHALL, Visiting Professor
- Articles
With P. T. Johnson
Behavior of *Leishmania* in Panamanian phlebotomine sandflies fed on infected animals. *Experimental Parasitology*, 27:281-300.

CHICAGO CIRCLE

ACCOUNTING

SCHNEIDER, ALBERT J., Professor

Books

Tax reform act: a supplement to self-instructional guide to federal income taxation. Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 48 pp.

FOX, SAMUEL, Professor

Articles

Comparative commercial codes in republics of West Germany, Lebanon, and United States. *Lex et Scientia, Journal of the International Academy of Law and Science*, 7, 2: 74-84.

MALINOSKY, ALFONSE T., Professor

Articles

Some observations on the seminar method. *Collegiate News and Views*, 25, 2:9-11.

PRYOR, LEROY J., Assistant Professor

Articles

Profit planning with probabilities. *Management Accounting*, 51, 10:32-35.

Simulation: budgeting for a "what if." *The Journal of Accountancy*, 130, 5:59-63.

FOX, SAMUEL, Professor

Reviews

Public relations law, by Simon. *Choice*, 6, 12: 1804.

Real estate law, by Kratovil. *Ibid.*, 7, 5-6:724.

ANTHROPOLOGY

BRANDT, ELIZABETH A., Assistant Professor

Articles

On the origins of linguistic stratification: the Sandia case. *Anthropological Linguistics*, 12, 2:46-50.

Reviews

Information, mechanism and meaning, by Donald M. MacKay. *Studies in Linguistics*, 21, 1-4:105-6.

FREEMAN, SUSAN T., Associate Professor

Books

Neighbors: the social contract in a Castilian hamlet. University of Chicago Press, Chicago and London, 233 pp.

Reviews

Death in Murélagá: funerary ritual in a Spanish Basque village, by William A. Douglass. *American Anthropologist*, 72, 5: 1112-13.

GARBARINO, MERWYN S., Assistant Professor

Articles

Seminole girl. In *Awakening minorities: American Indians*, ed. by John R. Howard, Aldine Publishing Co., Chicago, pp. 69-88.

Seminole girl. *Trans-action*, 7, 4:40-46.

HOCKINGS, PAUL E., Assistant Professor

Articles

MGM and the professors. *Program in Ethnographic Film Newsletter*, 2, 3:9-10.

Reviews

The Paleolithic cultures of Singbhum, by Asok K. Ghosh. *Man*, 5, 4:710.

PROST, JACK H., Associate Professor

Articles

Gaits of monkeys and horses: a methodological critique. *American Journal of Physical Anthropology*, 32, 1:121-27.

REED, CHARLES A., Professor

Articles

Extinction of mammalian megafauna in the Old World late Quaternary. *BioScience*, 20, 5:284-88.

With P. F. Turnbull

Late Pleistocene mammals from Nubia. *Paleoecology of Africa*, 4:55-56.

With R. Borowsky

The "world's largest toad" and other herpetological specimens from southern Suriname. *Studies of the Fauna of Suriname and Other Guyanas*, 12:159-71, pl. 3, figs. 200-209.

With D. Falk

The evolution of cranial capacity in *Homo* in relation to time and body weight. *American Zoologist*, 10, 4:558.

Reviews

Animals and man in Holland's past: an investigation of the animal world surrounding man in prehistoric and early historic times in the provinces of north and south Holland, by A. T. Clason. *American Anthropologist*, 72, 1:171-72.

Domestic animals of China, by H. Epstein. *Science*, 167:1713-14.

Adaptation of domestic animals, ed. by E. S. E. Hafez. *Quarterly Review of Biology*, 45, 1:99-100.

Man in adaptation, I: the biosocial background, ed. by Yedhudi A. Cohen. *Quarterly Review of Biology*, 45, 2:223.

General palaeontology, by A. Brouwer. *Archaeology*, 23, 4:351.

The horses of the Sahara, by General E. Daumas. *American Anthropologist*, 72, 5: 1113-14.

Taxonomy and evolution of the monkeys of Celebes (Primates: Cercopithecidae), by Jack Fooden. *American Anthropologist*, 72, 6:1564-65.

VATUK, SYLVIA J., Assistant Professor

Articles

A structural analysis of the Hindi kinship terminology. *Contributions to Indian Sociology: New Series*, 3:94-115.

ARCHITECTURE

AMON, RENE, Associate Professor

Articles

With O. E. Widera

A note on the higher derivatives for problems involving a singular solution. *Indian Journal of Physics*, 14, 4:119. 1969.

Infinite plate with a supported reinforced circular hole. In *Proceedings of the fifth southeastern conference on theoretical and applied mechanics*, Durham, Raleigh, April, 1970, p. 81.

Vibration of a beam-reinforced circular plate. *Journal of Sound and Vibration*, 12, 4:475.

On the vibration of beam-reinforced plate type elements. In *Proceedings of the sixth conference on machine dynamics*, Slovakian Academy of Sciences, Bratislava, September, 1970.

With O. E. Widera, R. G. Ahrens

Problem of the annular plate, simply supported and loaded with an eccentric concentrated force. *American Institute of Aeronautics and Astronautics Journal*, 8, 5:961.

With O. E. Widera, P. L. Panicoli

On the problem of the infinite elastic plate with a circular insert reinforced by a beam. *Nuclear Engineering and Design*, 1970, 12: 475.

ART

KOPPE, RICHARD, Professor

Articles

The new Bauhaus, Chicago. In *Bauhaus and Bauhaus people*, ed. by Neumann, Van Nostrand Reinhold, New York, pp. 234-42.

Recent paintings, constructions, and reflections. *Art International*, 14, 8:60-63.

SINGER, LEONARD D., Assistant Professor

Articles

Disposing of disposables. *Design and Environment*, 1, 3:24-29.

Bulletins and Technical Reports

Social aspects of design. Israel Institute of Industrial Design, Tel Aviv, Israel, 4 pp.

BIOENGINEERING

GOSE, EARL E., Associate Professor

Articles

With A. Mucciardi

An automatic clustering algorithm. In *Proceedings of the IEEE conference on systems science and cybernetics*, Pittsburgh, Pennsylvania, October, 1970.

Six techniques for choosing pattern recognition properties. In *Proceedings of the IEEE conference on feature extraction and property selection*, Argonne, Illinois, October, 1970.

With J. Bacus, L. Ackerman

Remarks on the design of pattern recognition systems and some comparisons to human pattern recognition. In *Proceedings of the conference of American society for cybernetics*, Washington, D.C., October, 1970.

LEVETT, JEFFREY, Assistant Professor

Articles

Nonlinearities in the electroretinogram. *American Journal of Optometry*, 47, 12:965-75.

A systems analysis approach to the evaluation of the intraretinal electroretinogram of the frog. *Biomedical Computing*, 1:277-90.

The approximate characteristics of the peripheral filters in the electroretinogram. *Biomedical Computing*, 1, 1970.

Dipole characteristics and the frog electroretinogram. In *Proceedings of the 23rd annual conference on engineering in medicine and biology*, 12, 24.6:325.

ZUBER, BERT L., Associate Professor

Articles

With L. Stark, J. A. Michael

Saccadic suppression: a product of the saccadic anticipatory signal. In *Attention in neurophysiology*, ed. by Evans and Mulholland, Butterworths, London, pp. 281-303.

With R. J. Reinhart

Neural control parameters for saccadic eye

movements. In *Proceedings of the 23rd annual conference on engineering in medicine and biology*, 12, 24.2:321.

BIOLOGICAL SCIENCES

ANDERSON, LOUISE E., Associate Professor

Articles

With V. R. Advani

Chloroplast and cytoplasmic enzymes: three distinct isoenzymes associated with the chloroplast. *Plant Physiology*, 45, 5:583-85.

With D. A. Levin

Chloroplast aldolase is controlled by a nuclear gene. *Ibid.*, 46, 6:819-20.

BARDACK, DAVID, Associate Professor

Articles

A new teleost from the Oldman Formation (Cretaceous) of Alberta. *Paleontology*, 3: 1-8.

With R. Zangerl

Fossil Agnatha. In *McGraw Hill yearbook of science and technology*, 1970, pp. 103-6.

Reviews

The dinosaurs, by W. E. Swinton. *Choice*, 7, 10:1396.

The telencephalon of the western painted turtle (*Chrysemys picta belli*), by R. G. Northcutt. *Choice*, 7, 8:1075.

The age of the dinosaur, by B. Kurten. *Ibid.*, 5-6:702.

Evolution of the vertebrates, by E. H. Colbert. *Ibid.*, 6, 12:1774.

BUHSE, HOWARD E., JR., Associate Professor

Articles

With J. O. Corliss, R. C. Holsen, Jr.

Tetrahymena vorax: analysis of stomatogenesis by scanning electron and light microscopy. *Transactions of the American Microscopical Society*, 89:328-36.

With J. O. Corliss, S. J. Stamler

Application of the scanning electron microscope to the study of cell division of *Tetrahymena pyriformis*. In *Proceedings of the third scanning electron microscope symposium*, Chicago, pp. 171-76.

CHEN, SHEPLEY S. C., Assistant Professor

Articles

Influence of factors affecting germination on respiration of *Phacelia tanacetifolia* seeds. *Planta*, 95, 4:330-35.

Action of light and gibberellic acid on the growth of excised embryos from *Phacelia tanacetifolia* seeds. *Ibid.*, pp. 336-40.

Thoughts on problems related to plant development. *Taiwania*, 15, 2:223-26.

With J. E. Varner

Metabolism of ¹⁴C-maltose in *Avena fatua* seeds during germination. *Plant Physiology*, 44, 5:770-74.

Respiration and protein synthesis in dormant and after-ripened seeds of *Avena fatua*. *Ibid.*, 46, 2:108-12.

CUMMINGS, MICHAEL R., Assistant Professor

Articles

With R. C. King

The cytology of the vitellogenic stages of oogenesis in *Drosophila melanogaster*, II:

ultrastructural observations on the origin of protein yolk spheres. *Journal of Morphology*, 130, 4:467-78.

Ultrastructural changes in nurse and follicle cells during late stages of oogenesis in *Drosophila melanogaster*. *Zeitschrift für Zellforschung und mikroskopische Anatomie*, 110, 1:1-8.

Reviews

Cytology and evolution (second ed.), by E. N. Willmer. *Choice*, 7, 9:1252.

GASSMAN, MERRILL L., Assistant Professor

Articles

With S. Granick

Rapid regeneration of Protochlorophyllideso. *Plant Physiology*, 45, 2:201-5.

GLASSMAN, SIDNEY F., Professor

Articles

A conspectus of the palm genus *Butia* Becc., *Fieldiana: Botany*, 32, 10:127-72.

A synopsis of the palm genus *Syagrus* Mart., *Ibid.*, 15:215-40.

A new hybrid in the palm genus *Syagrus* Mart., *Ibid.*, 16:241-57.

GREENBERG, BERNARD, Professor

Articles

Sterilizing procedures and agents, antibiotics and inhibitors in mass rearing of insects. *Bulletin of the Entomological Society of America*, 16:31-36.

Blaesoxipha uncatata (Wulp) (Diptera, Sarcophagidae), a parasite of the grasshopper, *Dissosteira carolina* (L.) (Orthoptera, Acrididae). *Entomological News*, 81:188.

Species distribution of new structures on fly antennae. *Nature*, 228:1338-39.

With J. A. Kowalski, M. J. Klowden

Factors affecting the transmission of *Salmonella* by flies: natural resistance to colonization and bacterial interference. *Infection and Immunity*, 2:800-809.

With J. Kowalski, J. Karpus

Micro-potentiometric pH determinations of the gut of *Periplaneta americana* fed three different diets. *Journal of Economic Entomology*, 63:1795-97.

With M. Sanati

Enteropathogenic types of *Escherichia coli* from primates and cockroaches in a zoo. *Journal of Medical Entomology*, 7:744.

Reviews

Herm's medical entomology, by M. T. James and R. F. Harwood. *Bulletin of the Entomological Society of America*, 16:36.

The flies of western North America, by Frank R. Cole with the collaboration of Evert I. Schlinger. *American Journal of Tropical Medicine and Hygiene*, 19:739.

HADLEY, ELMER B., Professor and Acting Department Head

Articles

Net productivity and burning responses of native eastern North Dakota prairie communities. *American Midland Naturalist*, 84, 1:121-35.

INGER, ROBERT F., Adjunct Professor

Articles

A new species of frog of the genus *Rana* from Thailand. *Fieldiana: Zoology*, 51, 14: 169-74.

KHAN, MOHAMMED A. Q., Associate Professor

Articles

Genetic and biochemical characteristics of cyclodiene epoxidase in the house fly. *Biochemical Pharmacology*, 19:903-13.

With J. L. Chang, D. J. Sutherland, J. D. Rosen, A. Kamal

House fly microsomal oxidation of some foreign compounds. *Journal of Economic Entomology*, 63, 6:1807-13.

With D. J. Sutherland, J. D. Rosen, W. F. Carey

Effect of sesamex on the toxicity and metabolism of cyclodienes and their photoisomers in house flies. *Ibid.*, 2:470-75.

MERTZ, DAVID B., Associate Professor

Books Edited

With J. H. Connell, W. W. Murdoch

Readings in ecology and ecological genetics. Harper and Row, New York, 397 pp.

Articles

With T. Park, M. Nathanson, J. R. Ziegler

Cannibalism of pupae by mixed-species populations of adult *Tribolium*. *Physiological Zoology*, 43, 3:166-84.

With T. Park, M. F. Ryan

Flour beetles: responses to extracts of their own pupae. *Science*, 170, 9:178-80.

With J. R. Robertson

Some developmental consequences of handling, egg-eating and population density for flour beetle larvae. *Ecology*, 51, 6:989-98.

MURRAY, DARREL, Associate Professor

Books

An experience with organisms. Addison-Wesley Publishing Co., 208 pp.

Articles

Make the problems of achieving and maintaining environmental quality academic problems. *Council on Undergraduate Education in Biological Sciences News*, 6, 3:4-7, 10-11.

Campus organizations. *Ibid.*

Symposia, seminars, and short courses. *Ibid.*

The investigative laboratory: a student view. *Ibid.*, 5:4-5.

What happened at Marquette (a report on a summer college workshop on the investigative laboratory). *Ibid.*, 6:5-6.

The use of modules in college biology teaching. *Ibid.*, pp. 6-7.

The laboratory: an attic, a museum, or a workshop? *BioScience*, 10, 15:873.

PENNEY, DAVID G., Assistant Professor

Articles

With J. Cascarano

Effects of glucose and tricarboxylic acid-cycle metabolites on metabolism and physiological performance. *Biochemical Journal*, 118:221-27.

SHOMAY, DAVID, Associate Professor

Reviews

Central pain: a neurosurgical survey, by V. Cassinari and C. A. Pagni. *Choice*, 6, 11: 1601.

Infantile cerebral paralysis, by S. Freud. *Ibid.*, p. 1602.

Disorders of the skull base region, ed. by C. A. Hamberger and J. Wersall. *Ibid.*, 12: 1777.

Medical neurology, by J. Gilroy and J. Sterling Meyer. *Ibid.*, 7, 1:50.

Mechanisms of synaptic transmission, ed. by K. Akert and P. Waser. *Ibid.*, 3:404.

The interneuron, ed. by M. Brazier. *Ibid.*, 5-6:700.

International review of neurobiology, vol. 12, ed. by C. Pfeiffer and J. Smythies. *Ibid.*, 7:870.

Information processing in the nervous system, ed. by K. Leibovic. *Ibid.*, 10:1396.

SPIESS, ELIOT B., Professor

Articles

Mating propensity and its genetic basis in *Drosophila*. In *Essays in evolution and genetics in honor of Th. Dobzhansky*, ed. by M. K. Hecht and W. C. Steere, Appleton-Century-Crofts, New York, pp. 315-79.

With R. N. Sherwin

Quantitative variation and chromosomal arrangements in a population of *Drosophila persimilis* from the redwoods. *Evolution*, 24, 3:495-506.

TAYLOR, THOMAS N., Associate Professor

Articles

The morphology of *Bowmanites dawsoni* spores. *Micropaleontology*, 16, 2:243-48.

Lasiotrobus gen. nov., a staminate strobilus of gymnospermous affinity from the Pennsylvanian of North America. *American Journal of Botany*, 57, 6:670-90.

With C. W. Good

On the structure of *Cordaites felicis* Benson from the Pennsylvanian of North America. *Palaeontology*, 13, 1:29-39.

With M. A. Millay

Studies of living and fossil saccate pollen grains. *Micropaleontology*, 16, 4:463-70.

SINGER, ROLF, Professor

Articles

The toptype of *Boletus amabilis* Peck. *Mycologia* 62:590-96.

Bulletins and Technical Reports

Flora neotropica. *Monograph no. 3*, Hafner Publishing Co., New York and London, 34 pp.

Flora neotropica. *Monograph no. 4*, *Ibid.*, 13 pp.

Flora neotropica. *Monograph no. 5*, *Ibid.*, 35 pp.

WILLEY, ROBERT B., Associate Professor

Articles

With R. L. Willey

The behavioural ecology of desert grasshoppers, I: presumed sex-role reversal in flight displays of *Trimerotropis agrestis*. *Animal Behaviour*, 18, 3:473-77.

WILLEY, RUTH L., Assistant Professor

Articles

Sound location of insects by the dwarf weasel. *American Midland Naturalist*, 84, 2:563-64.

With W. R. Bowen, E. Durban

Symbiosis between *Euglena* and damselfly nymphs is seasonal. *Science*, 170:80-81.

With R. B. Willey

The behavioural ecology of desert grasshoppers, I: presumed sex-role reversal in flight displays of *Trimerotropis agrestis*. *Animal Behaviour*, 18:473-77.

CHEMISTRY

BAUMGARTEN, RONALD J., Associate Professor

Articles

With E. Wenkert, P. Bakusis, D. Doddrell, P. W. Jeffs, and others

1-methyl-bicyclo(3.1.1)heptan-6-one and related substances. *Journal of the American Chemical Society*, 92:1617-24.

BOYER, JOSEPH H., Professor

Articles

With R. Selvarajan

Rearrangement of N,N-dimethylphenylethynyl amine into α -phenyl-isobutyronitrile. *Chemical Communications*, p. 889.

Deoxygenation of benzoyl cyanide. *Journal of Organic Chemistry*, 35:1229.

With P. J. A. Frints

The azomethine nitrene, I: pyrolysis and photolysis of Δ^2 -1,2,4-oxadiazolin-5-ones. *Journal of Heterologic Chemistry*, 7:59.

The azomethine nitrenes, II: photolysis of 3-phenyl- Δ^2 -oxadiazolin-5-ones. *Ibid.*, 7:71.

Dehydration of amidoximes with and without rearrangement. *Journal of Organic Chemistry*, 35:2449.

BROWN, THOMAS H., Associate Professor

Articles

With P. J. Green

New reference compounds for the knight shift in ^{55}Mn and ^{103}Rh . *Physics Letters*, 31A:148.

The phosphorus-31 and rhodium-103 nuclear magnetic resonance spectra of some rhodium (I) and rhodium (III) phosphine complexes. *Journal of the American Chemical Society*, 92:2359.

With W. F. Myszkowski

Rapid convergence in open shell SCF π -electron calculations. *Journal of Chemical Physics*, 52:4918.

BURNS, RICHARD P., Associate Professor

Articles

Molecular beam surface interactions. *Journal of Chemical Physics*, 52:2152.

CARLIN, RICHARD L., Professor

Books Edited

Transition metal chemistry, vol. 6. Marcel Dekker, Inc., New York, 328 pp.

Articles

With A. E. Siegel

Base adducts of nickel ethylxanthate. *Inorganic Chemistry*, 9:1587.

With D. B. Losee

Base adducts of nickel dithiophosphate. *Ibid.*, p. 2087.

With R. W. Schwartz

An electron paramagnetic resonance study of some metal ions in guanidinium aluminum sulfate hexahydrate. *Journal of the American Chemical Society*, 92:6763.

FREEMAN, WADE A., Assistant Professor

Articles

With C. F. Liu

Isomers of the bis(L-2,4-diaminobutyrate)cobalt (III) ion and confirmation of the chelate rings. *Inorganic Chemistry*, 9, 5: 1191-96.

With Y. Rasiel

Definition of reaction rate and the steady state assumption. *Journal of Chemical Education*, 47, Z:159-60.

GISLASON, ERIC A., Assistant Professor

Articles

With M. H. Chiang, B. H. Mahan, C. W. Tsao, A. S. Werner

Dynamics of the reaction of Ar⁺ with D₂. *Journal of Chemical Physics*, 52:2698.

With M. H. Cheng, M. H. Chiang, B. H. Mahan, C. W. Tsao, A. S. Werner

Collision induced dissociation of molecular ions. *Ibid.*, p. 5518.

Collisional excitation of small molecular ions. *Ibid.*, p. 6150.

GORENSTEIN, DAVID G., Assistant Professor

Articles

The barriers to pseudorotation in cyclic alkyl-oxophosphoranes. *Journal of the American Chemical Society*, 92:644-48.

With F. H. Westheimer

NMR evidence for the pathways of pseudorotation in alkyl-oxophosphoranes. *Ibid.*, pp. 643-43.

JAMESON, CYNTHIA J., Assistant Professor

Articles

With A. K. Jameson, H. S. Gutowsky

Density dependence of ¹²⁹Xe chemical shifts in mixtures of xenon and other gases. *Journal of Chemical Physics*, 53:2310.

With M. C. Damasco

On the spin-spin coupling between ¹³C and H separated by two bonds: *Molecular Physics*, 18:491.

KAGAN, JACQUES, Associate Professor

Articles

With S. P. Singh

The photochemical decarboxylation of sodium glycidates. *Journal of Organic Chemistry*, 35:3839.

The acid-catalyzed decarboxylation of glycidic acids: the "abnormal products." *Ibid.*, p. 2203.

With V. T. Ramakrishnan

The photochemical conversion of phenyl epoxycinnamates to flavonoids and the synthesis of 2'-hydroxyepoxychalcone. *Journal of Organic Chemistry*, 35:2898.

The photochemical synthesis of 2'-hydroxy-chalcones from phenyl cinnamates: *Ibid.*, p. 2901.

With V. K. Bhatia

The photochemical synthesis of 2',6'-dihydroxy-4'-methoxy and 2',4'-dihydroxy-6'-methoxychalcones. *Chemistry and Industry (London)*, 1970:1203.

With D. A. Harrison, R. L. Schwartz

A radical intermediate in the photolysis of o-phthalaldehyde at 77°K. *Journal of the American Chemical Society*, 92:5793.

MORIARTY, ROBERT M., Professor

Articles

With R. Reardon

The photochemical decomposition of alkyl azides. *Tetrahedron*, 26:1379.

With K. Bhamadipaty

The solvolysis of A-norcholesteryl p-toluene-

sulfonate derivatives. *Journal of Organic Chemistry*, 35:2297.

With C.-L. Yeh, K. C. Ramey, P. W. Whitehurst

Barrier to inversion at nitrogen in imines. Conformational studies on o-methyl imidates. *Journal of the American Chemical Society*, 92:6360.

With H. Gopal, T. Adams

Ruthenium tetroxide of secondary alcohols in neutral and basic media. *Tetrahedron Letters*, 46:4003.

ROCEK, JAN, Professor

Articles

With J. C. Drozdz

Evidence for epoxides as intermediates in the chromic acid oxidation of olefins. *Journal of the American Chemical Society*, 92, 22:6668.

With M. P. Doyle, R. J. Swedo

Pure chromium (VI) oxidations: the effective removal of chromium (IV) from interference in oxidations by chromic acid. *Ibid.*, 26:7599.

WALTER, ROBERT I., Professor

Articles

The future of chemistry in the liberal arts college. *Journal of Chemical Education*, 47: 183.

The role of the liberal arts college in the education of chemists. *Advisory Council on College Chemistry Serial Publication* 45, 1970:24 pp.

CLASSICS

TRACY, THEODORE J., Associate Professor

Books

Philosophical theory and the doctrine of the mean in Plato and Aristotle. Loyola University Press, Chicago, 396 pp.

CRIMINAL JUSTICE, ADMINISTRATION OF

McINTYRE, DONALD M., Associate Professor

Articles

Police academies can teach the recognition, collection and preservation of evidence. *Police*, 14, 4:54-55.

Practical aspects of the criminal law process. In *Crime control: a challenge to state budgeting*, Council of State Governments, Lexington, Kentucky.

With D. Lippman

Prosecutors and early disposition of felony cases. *American Bar Association Journal*, 56:1154-62.

OSTERBURG, JAMES W., Visiting Professor

Articles

With H. J. Trubitt

Recommendations based upon a study of police cadet programs in the United States. *Journal of Criminal Law, Criminology, and Police Science*, 61, 3:459-62.

Reviews

Police personnel administration, by V. A. Leonard. *Journal of Forensic Sciences*, 15, 4:614-15.

WEBSTER, JOHN A., Associate Professor

Articles

Police task and time study. *Journal of Criminal Law, Criminology, and Police Science*, 61, 1:94-100.

ECONOMICS

AUERBACH, ROBERT D., Assistant Professor

Articles

The effects of price supports on output and factor prices in agriculture. *Journal of Political Economy*, 78, 6:1355-61.

GRAMPP, WILLIAM D., Professor

Articles

On manufacturing and development. *Economic Development and Cultural Change*, 18, 3:451-63.

Edward West reconsidered. *History of Political Economy*, 2, 2:316-43.

KOSOBUD, RICHARD F., Professor

Articles

Forecasting value and uses of an econometric model. *Applied Economics*, 2, 4:253-64.

NEIL, HERBERT E., JR., Lecturer

Articles

International liquidity versus exchange flexibility. *Financial Analysts Journal*, 26, 1:70-81.

STOKES, HOUSTON H., Assistant Professor

Articles

Monopsony, minimum wages and employment. *American Economist*, 14, 2:79-81.

EDUCATION

BAER, JEAN H., Professor

Articles

Counseling psychology. In *Jobs in psychology*, ed. by Philip Ash, Science Research Associates, Chicago, pp. 20-24.

CARSELLO, CARMEN J., Instructor

Articles

With D. E. Bartell

Increasing rate of reading a foreign language. *Journal of Reading*, 14, 3:171-72.

With J. Creaser, M. Jacobs, L. Zaccaria

Effects of shortened time limits on the Nelson-Denny reading test. *Ibid.*, pp. 167-70.

CHARLIER, PATRICIA S., Associate Professor

Books Edited

With R. H. Charlier, J. J. Karpeck

The world around us: a book of readings. Educational Publishers, New York, 253 pp.

Articles

Oceanography programs for teachers and grade and high school students. In *Marine careers*, ed. by B. L. Gordon, Northeastern University, Boston, Massachusetts, pp. 24-27.

With R. H. Charlier

The sea: man's future? In *The world around us: a book of readings*, ed. by P. S. Charlier, R. H. Charlier, and J. J. Karpeck, Educational Publishers, New York, pp. 251-53.

Perspective privind "profesorul eficient de colegiu." *Revista de Psihologic (Academice Rep. Soc. Romania)*, 16, 1:30-36.

Landlocked oceanography. *American Oceanography—Special Education Issue*, 6, May:5.

Perspectives on the effective college teacher. *Improving College and University Teaching*, 18, 4:265-69.

Geographic and environmental illiteracy among educated Americans, an appraisal. *Science Education*, 54, 3:281-86.

The sea: man's future? *Ward's Bulletin*, 9, 65:145.

Oceanology as a liberal arts subject. *Synergist*, 2, 3:2-14.

Matthew Fontaine Maury, Cyrus Field and the "physical geography of the sea." *Sea Frontiers*, 16, 5:272-81.

EASH, MAURICE J., Professor

Bulletins and Technical Reports

Evaluation of instructional materials for exceptional children and youth. New York State Network of Special Education Instructional Materials Centers (SEIMC), New York, 13 pp.

FREDRICK, WAYNE C., Assistant Professor

Articles

Reliability of measures from 500 written words. *Psychological Reports*, 27, 1:126.

With H. J. Klausmeier

Cognitive styles: a description. *Educational Leadership*, 27, 7:668-72.

With L. S. Golub

An analysis of children's writing under different stimulus conditions. *Research in the Teaching of English*, 4, 2:168-80.

KRUMBEIN, ELIEZER, Associate Professor

Articles

A viable profession: a summary. In *Continuing education for the professions*, ed. by LeRoy W. Natress, Jr., Naturesources, Chicago, pp. 145-51.

Educating for understanding: values and feeling in Judaism. *Synagogue School*, 28, 4:4-24.

Some legislators were responsive. *Curriculum Advisory Service*, 1970:187-89.

MENACKER, JULIUS, Associate Professor

Articles

Subject articulation between high school and college. *The Clearing House*, 44, 4:220-23.

RATCLIFFE, ROBERT H., Assistant Professor

Books

Teacher's guide: justice in urban America. Houghton-Mifflin Co., Boston, 84 pp.

Books Edited

Law and the city. Houghton-Mifflin Co., Boston, 134 pp.

Youth and the law. *Ibid.*, 108 pp.

Landlord and tenant. *Ibid.*, 78 pp.

Social protest and the city. Law in American Society Foundation, Chicago, 158 pp.

The city and its police. *Ibid.*, 71 pp.

Articles

Law as an integer of social studies instruction. *Illinois Journal of Education*, 61, 1:31-36.

TIEMANN, PHILIP W., Associate Professor

and Head of Course Development Division,
Office of Instructional Resources

Books

With S. M. Markle

Really understanding concepts; or, in frumious pursuit of the jabberwock (rev. ed.). Stipes Publishing Co., Champaign, 45 pp.

Articles

Task analysis requirements for upgrading occupational instruction. In *Educational systems for operators of water pollution control facilities: proceedings*, ed. by John H. Austin and John Kesler, Federal Water Pollution Control Administration, Atlanta, Georgia, pp. 271-87.

Report on Bombay workshop. In *Report of the USAID/NESA programmed learning feasibility study*, ed. by Phil C. Lange and Desmond P. Wedberg, Committee on International Relations, National Education Association, Washington, D.C., pp. xviii-8.

With S. M. Markle

Problems of conceptual learning. *Journal of Educational Technology*, 1, 1:52-62.

"Behavioral" analysis of "cognitive" content. *Educational Technology*, 10, 1:41-45.

TORNEY, JUDITH V., Associate Professor

Articles

Chronology of data collections and publications in political socialization. In *The learning of political behavior*, ed. by Adler and Harrington, Scott, Foresman & Co., Glenview, pp. 193-96.

Contemporary political socialization in elementary schools and beyond. *High School Journal*, 54, 2:153-63.

Reviews

Socialization and society, by John Clausen. *American Journal of Sociology*, 75, 6: 1056-58.

Political socialization, by Richard Dawson and Kenneth Prewitt. *Ibid.*

WALBERG, HERBERT J., Associate Professor

Articles

Training educational researchers for the future. In *The educational professorate as phoenix*, ed. by James A. Counelis, Phi Delta Kappa Press, Bloomington, Indiana, pp. 171-83.

Professional role discontinuities in educational careers. *Review of Educational Research*, 40, 5:409-20.

A model for research on instruction. *School Review*, 78, 2:185-200.

Curriculum evaluation: problems and guidelines. *Teachers' College Record*, 71, 4: 557-70.

With A. Rothman

Teacher achievement and student learning. *Science Education*, 53, 7:253-57.

With A. Ahlgren

Predictors of the social environment of learning. *American Educational Research Journal*, 7, 2:153-67.

With W. W. Welch

Pretest and sensitization effects in curriculum evaluation. *Ibid.*, pp. 605-15.

WELDON, WARD W., Instructor

Reviews

Designing education for tomorrow's cities, by Mario Fantini and Milton Young. *Training and Development Journal*, 24, 8:60.

Education and jobs: the great training robbery, by Ivar Berg. *Ibid.*, 9:61.

Technology, management and society, by Peter F. Drucker. *Educational Leadership*, 28, 2:215-16.

WYNN, EDWARD, Associate Professor

Articles

Education research: a profession in search of a constituency. *Phi Delta Kappan*, 52, 4: 245-47.

RIPPEY, ROBERT M., Associate Professor

Articles

The researcher in the community. *School Review*, 79, 1:133-40.

The use of reinforcement in inner city classrooms. *Integrated Education*, 8, 3:28-33.

The effects of various scoring functions on the reliability of valid confidence tests. *Journal of Educational Measurement*, 7, 3:165-70.

A rationale for confidence scored multiple-choice tests. *Psychological Reports*, 27: 91-98.

Rationales for understanding teaching. In *Resource papers—Ford training and placement program*, University of Chicago, April, 1970, pp. 41-51.

Becoming involved in educational research and evaluation—how and why. *Illinois Education*, 60, 1:17-22.

Are you there? Can you hear me? Two problems of instruction common to inner-city schools. *Integrated Education*, 7, 5:3-9.

Probabilistic testing. *Journal of Educational Measurement*, 5, 3:211-15.

TALMAGE, HARRIET, Associate Professor

Articles

Textbooks: recent reviews and a look at the industry. *EPIE Report*, 4, 2:16-20, 26-28.

With G. E. Monroe

A new perspective on student teaching. *The Clearing House*, 44, 6:330-33.

Teacher as a teacher educator. *Educational Leadership*, 27, 6:609-13.

A model of a cooperative urban teacher education program. *Journal of Teacher Education*, 21, 4:469-77.

ENERGY ENGINEERING

HARTNETT, JAMES P., Professor and Head of Department

Books Edited

With T. F. Irvine, Jr.

Advances in heat transfer, vol. 6. Academic Press, New York, 577 pp.

The one culture. Pergamon unified engineering series, Pergamon Press, New York, 168 pp.

Articles

With S. McComas

Temperature profiles and heat transfer associated with a single disk rotating in still air. In *Proceedings of the fourth international heat conference*, Paris.

With V. M. K. Sastri

Influence of an unheated starting length on heat transfer in a transpired turbulent boundary layer. *Ibid.*

ANDERSON, AEMER D., Assistant Professor

Articles

Singular perturbation solutions of some hot wire conduction problems. *Quarterly Journal of Mechanics and Applied Mathematics*, 23, 2:163-70.

BABCOCK, LYNDON R., JR., Associate Professor

Articles

A combined pollution index for measurement of total air pollution. *Journal of the Air Pollution Control Association*, 20, 10:653-59.

CHUNG, PAUL M., Professor

Articles

Chemical reaction in a turbulent flow field with uniform velocity gradient. *Physics of Fluids*, 13, 1623:1153-65.

COGLEY, ALLEN C., Assistant Professor

Articles

Planck mean coefficients in the optically thin limit. *International Journal of Heat and Mass Transfer*, 13, 12:1825-29.

Radiative transport of lorentz lines in nonisothermal gases. *Journal of Quantitative Spectroscopy and Radiative Transfer*, 10: 1065-75.

CUTTING, JOHN C., Assistant Professor

Articles

Axial current leakage in segmented MHD generators. In *Proceedings of the eleventh symposium on engineering aspects of MHD*, California Institute of Technology, Pasadena, pp. 130-34.

HACKER, DAVID S., Associate Professor

Articles

Comment on thermodynamic performance of a hydroproduct to A.K.G. Loeber. *Journal of Hydrodynamics*, 4, 2:95-96.

MANSOORI, GHOLAM-ALI, Assistant Professor

Articles

With T. W. Leland

Variational approach to the equilibrium thermodynamic properties of simple fluid mixtures. *Journal of Chemical Physics*, 53, 5:1931-36.

With F. B. Canfield

Perturbation and variational approaches to equilibrium thermodynamics of gases, liquids, and phase transitions. *Industrial and Engineering Chemistry*, 62, 8:12-29.

Inequalities for the Helmholtz free energy. *Journal of Chemical Physics*, 53, 4:1618-19.

PIERSON, EDWARD S., Associate Professor

Articles

Preliminary experimental results from a one-wavelength MHD induction generator. In *Proceedings of the eleventh symposium on engineering aspects of MHD*, California Institute of Technology, Pasadena, pp. 161-64.

SAXENA, SATISH C., Professor

Books

With Y. S. Touloukian, P. E. Liley

Thermophysical properties of matter, vol. 3. Thermal conductivity: nonmetallic liquids and gases. Plenum Press, New York, 707 pp.

Articles

Comments on the Ulybin *et al.* method of calculating thermal conductivities of mixtures of chemically non-reacting gases at ordinary pressures. *Molecular Physics*, 18:123-37.

Thermal conductivity of binary gas systems

and Wassilijewa coefficients. In *United States Atomic Energy Commission ninth conference on thermal conductivity*, 691002, Physics TID-4500, pp. 94-104.

With L. Dass

A few bulk properties of alkali hydride crystals. *National Institute of Science of India*, 36, A:31-42.

With J. M. Gandhi

Thermal conductivity measurement of gases in the temperature range 325° to 3000°K: preliminary results. In *Proceedings of the tenth thermal conductivity conference*, Newton, Massachusetts, pp. v1-v4.

With G. P. Gupta

Experimental data and procedures for predicting thermal conductivity of multi-component mixtures of nonpolar gases. *Journal Chemical and Engineering Data*, 15:98-107.

Thermal conductivity of nitrous oxide in the temperature range 50°C to 900°C. *Chemical Physics Letters*, 4:291-94.

Thermal conductivity of carbon dioxide in the temperature range 100°C to 1075°C. *Molecular Physics*, 19:871-80.

Thermal conductivity of the systems: N₂-CO and N₂O-CO₂. In *Proceedings of the fifth symposium on thermophysical properties*, ASME, Cambridge, Massachusetts, pp. 22-27.

With V. P. S. Nain

Measurement of the concentration diffusion coefficient for Ne-Ar, Ne-Xe, Ne-H₂, Xe-H₂, H₂-N₂ and H₂-O₂ gas systems. *Applied Science Research*, 23:121-33.

With V. K. Saxena

Thermal conductivity data for hydrogen deuterium in the range 100°C-1100°C. *Journal of Physics A: General Physics*, 3: 309-20.

With P. K. Tondon

Thermal conductivity of quaternary mixtures. *Chemical Physics Letters*, 5:619-22.

SIMON, HAROLD A., Associate Professor

Articles

With M. L. R. Murthy

Measurement of thermal conductivity anomaly in the critical region of CO₂. In *Proceedings of the fifth symposium on thermophysical properties*, ASME, Cambridge, Massachusetts, pp. 214-18.

Measurements of thermal conductivity divergence in the supercritical region of CO₂. *Physical Review A*, 2, 4:1458-60.

ENGINEERING ADMINISTRATION

BUGLIARELLO, GEORGE W., Professor and Dean of the College of Engineering

Articles

Hemodynamic and mass transfer implications of phase separation phenomena in the microcirculation. In *Proceedings, NATO specialists meeting—advisory group on aeronautical research and development*, pp. 2-1—2-7.

Large socio-technological systems: human conflict and human design. In *Symposium on global systems dynamics*, ed. by E. Attinger, S. Karger Publisher, New York, pp. 149-55.

With G. C. Hsiao

A mathematical model of the flow in the axial plasmatic gaps of the smaller vessels. *Biorheology*, 7:5-36.

With H. Sevilla

Velocity distribution and other characteristics

of steady and pulsatile blood flow in fine glass tubes. *Ibid.*, pp. 1-23.

With A. K. C. Wong

Artificial intelligence in continuum mechanics. *Journal of Engineering Mechanics Division, American Society of Civil Engineers, ME*, 7:1239-65.

Bulletins and Technical Reports

Comments on the technology guidelines report for automated multi-phasic health testing facilities (AMHT). In *Conference on automated multi-phasic health testing facilities*, National Center for Health Services Research and Development, Washington, D.C., 14 pp.

ENGLISH

CONLEY, JOHN A., Professor

Books Edited

The Middle English Pearl: critical essays. Notre Dame University Press, Notre Dame, Indiana, and London, 351 pp.

Articles

The Lord's day as the eighth day: a passage in Thomas Usk's *The Testament of Love*. *Notes and Queries*, 17, 10:367-68.

KARANIKAS, ALEXANDER, Professor

Articles

Gold comes to Goffstown. *New Hampshire Profiles*, 19, 21:52-58.

With H. Karanikas

Work of Elias Venezis analyzed. *The National Herald*, 55:11-12.

Short Stories

Throuffi. *The Texas Quarterly*, 13:38-50.

MARDER, LOUIS, Professor

Articles

Shakespearean criticism. In *The Reader's Encyclopedia of World Drama*, ed. by J. Gassner and E. Quinn, Thomas Y. Crowell, New York, pp. 768-73.

The voice of the dissidents in Shakespeare. *The Shakespeare Newsletter*, 19, 1:2.

Modernizing Shakespeare. *Troilus & Cressida and Measure for Measure*. *Ibid.*, 2:12.

John Dover Wilson — the indomitable scholar adventurer. *Ibid.*, 3:22-23.

The Garrick Jubilee, 1969. *Ibid.*, 4:34.

Shakespeare and the popular tradition: a re-interpretation. *Ibid.*, 5-6:46.

Shakespeare on "law and order." *The Shakespeare Proclamation*, 1, 12:69.

Shakespeare in the theatre of theatrical discontinuity. *The Shakespeare Newsletter*, 20: 1-3.

New Shakespeare concordances. *Ibid.*

Shakespeare's lives: then and now. *Ibid.*, pp. 12-13.

Shakespeare facts and factual criticism — a proposal for a new periodical. *Ibid.*, p. 19.

Halliwell-Phillipps' controversy with Stratford Periodical. *Ibid.*, 4:26-27.

Prologue to a new critical life of Shakespeare. *Ibid.*, 5:34-35.

Cettle's forgery of the Groatworth of Wit and the "Shake-scene" passage. *Ibid.*, 6:42.

MILLS, RALPH J., JR., Professor

Articles

James Dickey, Richard Eberhart, David Ignatow, Stanley Kunitz, Denise Levertov,

Karl Shapiro, Anne Sexton. In *Contemporary Poets of the English Language*, ed. by Murphy, St. James Press, London and Chicago, pp. 296-97, 328-29, 546-47, 619-20, 648-70, 978, 986-87.

A reading of Galway Kinnell, I. *The Iowa Review*, 1, 1:66-86.

A reading of Galway Kinnell, II. *Ibid.*, 2: 102-22.

Reviews

Poems 1934-1969, by David Ignatow. *The Nation*, 210, 15:470, 472-73.

Poems

Night Road. *Stash*, 1, 3:36-37.

A photograph from my childhood. *Inscape*, 1, 2:6.

NIMS, JOHN F., Professor

Articles

The poetry of Sylvia Plath. In *The art of Sylvia Plath*, ed. by Charles Newman, Faber & Faber, London, and Indiana University Press, Bloomington, pp. 136-52.

Poetry: lost in translation? *Delos: A Journal of Translation*, 1, 5:108-26.

Poems

Love poem. In *Voices of poetry*, ed. by Kirschner, Laurel-Dell, New York, p. 59.

Love poem: first date; blessing; nature lover. In *A college book of verse*, ed. by Main, Wadsworth Publishing Co., California, pp. 258-60.

Love poem, penny arcade. In *The total experience of poetry*, ed. by R. and M. Thompson, Random House, New York, pp. 57, 188.

A.D. 2267: D.O.M., A.D. 2167. In *Worlds in the making*, ed. by Dunstan and Garlan, Prentice-Hall, Englewood Cliffs, New Jersey, pp. 157, 273.

Goethe in the poetry workshop. *College English*, 31, 5:518-19.

Antonio Machado, parable. *Denver Quarterly*, 5, 1:132.

Humility. *Saturday Review*, 53, 33:18.

Six poems by Goethe: Song of the traveller at evening, Mignon, Death of a fly, To Charlotte von Stein, Anacreon's grave, Permanence in change. *Poetry*, 116, 5-6: 345-52.

Bernart de Ventadorn: two poems: Can vei la lauzeta mover; Can l'erba fresch' e.lh folha par. *Virginia Quarterly Review*, 46, 4:572-75.

SCHILLER, ANDREW, Professor

Books

With M. Monroe, W. C. Greet

My pictiary. Scott, Foresman & Co., Glenview, Illinois, 95 pp.

With W. C. Greet, W. A. Jenkins

My first picture dictionary. *Ibid.*, 192 pp.

With M. Monroe, R. Nichols, W. Jenkins

C. Huck

Language and how to use it, book I. *Ibid.*, 96 pp.

Language and how to use it, book II. *Ibid.*, 128 pp.

Articles

Teach children to read their father tongue.

In *Coordinating reading instruction*, ed. by Robinson. *Ibid.*, pp. 17-33.

SILVERMAN, STUART J., Instructor

Books Edited

Emily Dickinson: letters from the world, by Marguerite Harris. Corinth Books, New York, p. 10.

Poems

The grapes ripening on shelves. *The South Florida Poetry Journal*, 4, 5:53.

In our letters. On first looking into my realms of gold. *Poetry Northwest*, 11:41-43.

The ice-cream baby. *Unicorn*, 2:38.

Sardines. *Concerning Poetry*, 3:68.

STAR, MORRIS, Assistant Professor

Books

Herman Melville: Mardi and a voyage thither. Northwestern University Press and the Newberry Library, Chicago.

Herman Melville: white-jacket or the world in a man-of-war. Northwestern University Press and the Newberry Library, Chicago.

STRONKS, JAMES B., Professor

Articles

John Kendrick Bangs criticizes Norris' borrowings in Blix. *American Literature*, 42, 3:380-86.

Reviews

The son of Royal Langbrith and the Altrurian Romances, by William Dean Howells. *American Literature*, 42, 3:408-10.

The illusion of life: American realism as a literary form, by Harold H. Kolb. *American Literary Realism*, 3, 3:271-73.

VEST, EUGENE V., Professor

Reviews

Merry wives of Windsor: a concordance to the text of the first folio, ed. by T. H. Howard-Hill. *Choice*, 6, 2:1558.

Macheth and the players, by Dennis Bartholomeusz. *Ibid.*, 1:98.

The mad fold of Shakespeare; psychological essays, by John C. Bucknell. *Ibid.*, 7:839.

Shakespearean punctuation, by Percy Simpson. *Ibid.*, 9:1234.

WILLETT, MAURITA, Associate Professor

Articles

Tolstoy's trinity: truth, simplicity and love. *Ball State University Forum*, 11, 2:53-59.

The silences of Herman Melville. *American Transcendental Quarterly*, 7, 2:85-92.

The "ending" of *Crime and Punishment*. *Orbis Litterarum*, 25, 3:245-58.

WOOLLEY, DALE E., Assistant Professor

Articles

Speech production models and grammatical theory. In *Papers from the sixth regional meeting, Chicago Linguistic Society*, ed. by M. A. Campbell, and others, pp. 560-66.

WRIGHT, ELIZABETH V., Professor

Articles

With G. D. Hendrick

A bibliography of short fiction explication. *Studies in Short Fiction*, 6, 4:486-524.

Reviews

Mirrors, by Lucy Warner. *Choice*, 7, 1:82.

And nothing human is alien to me, by Archie Rosenhouse. *Ibid.*, 9:1234.

FRENCH

PERRY, KENNETH I., Associate Professor

Books Edited

La chamade, by Françoise Sagan. Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 202 pp.

CLARK, PRISCILLA P., Assistant Professor

Articles

Chateaubriand and Napoleon: history, poetry or both? In *Chateaubriand today*, ed. by R. Switzer, Droz, Geneva, pp. 161-67.

With T. N. Clark

Writers, literature, and student movements in France. *Sociology of Education*, 42, 4: 293-314.

EPSTEIN, EDNA S., Assistant Professor

Articles

Themes in Parnassian poetry. *The Modern Language Review*, 65, 3:541-51.

"Hérodiade": La dialectique de l'identité humaine et de la création poétique. *Revue des Sciences, Humaines*, 35, 140: 579-92.

LOMBARD, CHARLES M., Professor

Articles

A neglected critic: Henry T. Tuckerman. *Etudes Anglaises*, 22, 4:362-69.

Poe and French romanticism. *Poe Newsletter*, 4, 4:1-4.

An old New York salon—French style. *New York Historical Society Quarterly*, 55, 1: 38-51.

GEOLOGICAL SCIENCES

BAKER, DAVID W., Assistant Professor

Articles

On the symmetry of orientation distribution in crystal aggregates. *Advances in X-ray Analysis*, 13:435-54.

BAUR, WERNER H., Professor and Head of Department

Articles

Crystal chemistry of hydrogen. In *Handbook of Geochemistry*, vol. 2, Springer, Berlin, pp. 1-A-1 to 1-A-6.

Bond length variation and distorted coordination polyhedra in inorganic crystals. *Transactions of the American Crystallographic Association*, 6:129-55.

With E. Tillmanns

The space group and crystal structure of trizinc dorthoborate. *Zeitschrift für Kristallographie*, 131, 2:213-21.

The crystal structure of hexabarium-17-titanate, Ba₆Ti₁₇O₅₀. *Acta Crystallographica*, B26, 10:1645-54.

On the stoichiometry of trisodium orthophosphate dodecahydrate. *Inorganic Chemistry*, 9, 8:1957-58.

A new type of polycation in the crystal structure of heptasodium fluoride bisarsenate-19-hydrate. *Naturwissenschaften*, 57, 5:242.

With A. A. Khan

On the crystal chemistry of salt hydrates, VI: the crystal structures of disodium hydrogen orthoarsenate heptahydrate and of disodium hydrogen orthophosphate heptahydrate. *Acta Crystallographica*, B26, 11: 1584-96.

KHAN, AIJAZ A., Assistant Professor

Articles

With W. H. Baur

On the crystal chemistry of salt hydrates, VI: the crystal structure of disodium hydrogen orthoarsenate heptahydrate and of disodium hydrogen orthophosphate heptahydrate. *Acta Crystallographica*, B26, 11: 1584-96.

With R. Pepinsky

Phase transitions in adamantamine bisulfate, $C_{10}H_{12}NH_2HSO_4$. *Zeitschrift für Kristallographie*, 130, 2:236-38.

With M. E. Straumanis, W. J. James

The crystal structure of diammonium hydrogen arsenate, $(NH_4)_2HAsO_4$. *Acta Crystallographica*, B26, 12:1889-92.

McCAMMON, RICHARD B., Professor

Articles

Component estimation under uncertainty. In *Geostatistics*, ed. by Daniel F. Merriam, Plenum Press, New York, pp. 45-62.

On estimating the relative biostratigraphic value of fossils. *Bulletin of the Geological Institutions of the University of Uppsala*, 2, 6:49-57.

Bulletins and Technical Reports

Minimum entropy criterion for analytic rotation. *Kansas Geological Survey Computer Contributions*, 43:24 pp.

With G. Wenninger

The dentograph. *Ibid.*, 48:28 pp.

RODOLFO, KELVIN S., Associate Professor

Articles

Annual suspended sediment supplied to the California continental borderland by the Southern California watershed. *Journal of Sedimentary Petrology*, 40, 2:666-71.

Geology of Andaman Basin and Burma: further comments. *Geological Society of America Bulletin*, 81, 6:1851-54.

SALEEM, ZUBAIR A., Assistant Professor

Bulletins and Technical Reports

Dynamic programming model and quantitative analysis, Roswell Basin, New Mexico. Water Resources Research Institute, 180 pp.

Articles

A computer method for pumping-test analysis. *Ground Water*, 8, 5:21-24.

SMITH, NORMAN D., Assistant Professor

Articles

The braided stream depositional environment: comparison of the Platte River with some Silurian clastic rocks of the north-central Appalachians. *Geological Society of America Bulletin*, 81, 10:2993-3014.

With R. S. Saunders

Paleoenvironments and their control of acritarch distribution: Silurian of east-central Pennsylvania. *Journal of Sedimentary Petrology*, 40, 1:324-33.

TILLMANN, EKKEHART, Assistant Professor

Articles

With H. Baur

The space group and crystal structure of trizinc diorthoborate. *Zeitschrift für Kristallographie*, 131, 2:213-21.

The crystal structure of hexabarium-17-titanate, $Ba_6Ti_7O_{40}$. *Acta Crystallographica*, B26, 11:1645-54.

On the stoichiometry of trisodium orthophosphate dodecahydrate. *Inorganic Chemistry*, 9, 8:1957-58.

A new type of polycation in the crystal structure of heptasodium fluoride bisarsenate-19-hydrate. *Naturwissenschaften*, 57, 5:242.

GERMAN

HEITNER, ROBERT R., Professor and Head of Department

Reviews

Melancholie in der Dramatik des Sturm und Drang, by Gert Mattenklott. *Lessing Yearbook*, 1:286-98.

Das bürgerliche Drama: Seine theoretische Begründung im achtzehnten Jahrhundert, by Alois Wierlacher. *The Journal of English and Germanic Philology*, 69, 1:140-43.

JENNINGS, LEE B., Professor

Articles

Klein Zaches and his kin: the grotesque revisited. *Deutsche Vierteljahrsschrift für Literaturwissenschaft und Geistesgeschichte*, 44, 4:687-703.

The ambiguous explosion: C. F. Meyer's *Der Schuss von der Kanzel*. *The German Quarterly*, 43, 2:210-22.

Are languages mind-bending? Reflections on the relevance of German study for the humanities. *Die Unterrichtspraxis*, 3, 1: 101-6.

KAUF, ROBERT, Professor

Books Edited

With D. C. McCluney, Jr.

Proben deutscher Prosa, ein Literaturlesebuch mit Hör- und Sprechübungen. W. W. Norton and Co., New York, 316 pp.

Reviews

Einakter und kleine Dramen des Expressionismus, ed. by Horst Denker. *The German Quarterly*, 43, 1:145-46.

Das deutsche Sonett: Dichtungen, Gattungspoetik, Dokumente, ed. by Jörg-Ulrich Fechner. *Ibid.*, p. 142.

Lustspiele, ed. by Paul Kluckhohn. *Ibid.*, p. 146.

Die Schöpfung, by Sebastian Sailer. *Ibid.*, p. 144.

Die Kindermörderin: Ein Trauerspiel, by Heinrich Leopold Wagner. *Ibid.*, p. 145.

Ein wunderliches Schau-Spiel vom Niederländischen Bauer, by Christian Weise. *Ibid.*, pp. 144-45.

Das Zürcher Spiel vom reichen Mann und vom armen Lazarus, ed. by Josef Schmidt. *Ibid.*, pp. 143-44.

Stammbuchblätter aus Wien, by Karl Glad. *The German Quarterly*, 43, 3:526-28.

Kreuzzugsdichtungen, ed. by Ulrich Müller. *Ibid.*, pp. 532-33.

Gesichtete Zeit: Deutsche Geschichten, 1918-1933, by Marcel Reich-Ranicki. *Ibid.*, pp. 532.

Der galante Stil: 1680-1730, ed. by Conrad Wiedemann. *Ibid.*, p. 533.

Deutsche Dramaturgie des 19. Jahrhunderts, ed. by Benno von Wiese. *Ibid.*, p. 534.

Bücherkunde für Germanisten, by Johannes Hansel. *The German Quarterly*, 43, 2:316.

MURDOCH, BRIAN O., Assistant Professor

Articles

Durrenmat's *Physicists* and the tragic tradition. *Modern Drama*, 13, 3:270-75.

Theological writings and medieval German literature. *Neophilologische Mitteilungen*, 71, 1:66-82.

Zur Entwicklung des mittelhochdeutschen Adverbs *zghant*. *Archiv für das Studium der neueren Sprachen*, 122, 3:192-98.

Reviews

Studien zum Cambridge Codex 10.K. 22, by Heikki Hakkarainen. *Modern Language Review*, 65, 2:441-44.

Zur Sprache der Kölner Bibeln, by Lauri Ahtiluoto. *Ibid.*, 1:205.

Althochdeutsches Wörterbuch, by Rudolf Schützeichel. *German Life and Letters*, 23, 4:397-98.

OTTO, KARL F., Assistant Professor

Reviews

German baroque literature: a catalogue of the collection in the Yale University Library, vol. 2, by Curt von Faber du Faur. *The German Quarterly*, 43, 1:142-43.

Martin Opitz: Gesammelte werke: kritische ausgabe, band 1, ed. by George Schulz-Behrend. *Ibid.*, 2:267-68.

Georg Philipp Harsdörffer: Frauenzimmer gesprächspiele, vols. 1 and 2, ed. by Irrgard Böttcher. *Ibid.*, p. 313.

SHAW, LEROY R., Professor

Books

The playwright and historical change: dramatic strategies in Brecht, Hauptmann, Kaiser and Wedekind. University of Wisconsin Press, Madison, 183 pp.

TORBRUEGGE, MARILYN K., Assistant Professor

Reviews

Herder and the beginnings of comparative literature, by Robert S. Mayo. *Monatshefte*, 62, 4:392-93.

Herder: his life and thought, by Robert T. Clark, Jr., *Ibid.*, p. 393.

Gedichte, by Johann Wilhelm Ludwig Gleim. *The German Quarterly*, 43, 2:313-14.

VARDAMAN, HAZEL C., Professor

Reviews

Interessantes aus deutschen Zeitungen, by Joanna M. Ratyck. *The German Quarterly*, 43, 4:824-25.

HISTORY

BILL, SHIRLEY A., Professor

Bulletins and Technical Reports

The University of Illinois at Chicago Circle, 1970: some historical background and comments. University of Illinois at Chicago Circle, Chicago, 91 pp.

BLEDSTEIN, BURTON J., Assistant Professor

Articles

Frederick Jackson Turner: a note on the intellectual and the professional. *Wisconsin Magazine of History*, 54, Autumn:50-55.

CONRAD, ROBERT E., Assistant Professor

Reviews

A century of Brazilian history since 1865, issues and problems, by Richard Graham. *The Hispanic American Historical Review*, 50, 1:224-25.

Flux et reflux de la traite des nègres entre le Golfe de Bénin et Bahia de Todos os Santos du XVII^e au XIX^e siècle, by Pierre Verger. *Ibid.*, 2:368-70.

DANZER, GERALD A., Assistant Professor

Articles

From here to there: high school history and American studies. In *Popular culture and curricula*, ed. by Browne and Ambrosetti, Bowling Green University Press, Bowling Green, Ohio, pp. 79-93.

EDIE, CAROLYN A., Associate Professor

Books

The Irish cattle bills: a study in restoration politics. American Philosophical Society, Philadelphia, 66 pp.

Articles

Charles II, the Commons and the Newark Charter dispute: the Crown's last attempt to enfranchise a borough. *The Journal of British Studies*, 10, 1:49-60.

GILBERT, BENTLEY B., Professor

Books

British social policy, 1914-1939. B. T. Batsford, Ltd., London, and Cornell University Press, Ithaca, New York, 367 pp.

GOTTSCHALK, LOUIS, Professor

Books

With L. C. Mackinney, E. H. Pritchard

History of mankind, vol. 4: the foundations of the modern world. Harper and Row, New York, 1133 pp.

Articles

Problems of textual criticism. In *Research methods in librarianship*, ed. by Stevens, University of Illinois Press, Urbana, pp. 86-94.

HESS, ROBERT L., Associate Dean and Associate Professor

See Liberal Arts and Sciences Administration.

HOISINGTON, WILLIAM A., JR., Assistant Professor

Articles

Class against class: the French Communist Party and the Comintern, a study of election tactics in 1928. *International Review of Social History*, 15, 1:19-42.

HOLLI, MELVIN G., Associate Professor

Articles

Introduction to the 1970 edition. In *My story*, by Tom L. Johnson, University of Washington Press, Seattle, pp. xlv to lvi. The urban historical collection at Chicago Circle. *Illinois Libraries*, 52, 2:163-67.

Reviews

The cross of culture: a social analysis of midwestern politics, by Paul Kleppner. *Michigan History*, 54, 2:169-71.

HUPPERT, GEORGE, Associate Professor

Books

The idea of perfect history. University of Illinois Press, Urbana, 215 pp.

MILLER, MARION S., Visiting Assistant Professor of History

Reviews

The man who plays alone, by Danilo Dolci. *Choice*, 6, 11:1644.

- The Italians, by Andrew Bryant. *Ibid.*, 7, 1:138.
- Italy's Austrian heritage, 1919-1946, by Denison Rusinow. *Ibid.*, 2:137.
- The Vatican empire, by Nino Lo Bello. *Ibid.*, 3:399.
- PATTERSON, DAVID S.**, Assistant Professor
- Articles**
Andrew Carnegie's quest for world peace. *Proceedings of the American Philosophical Society*, 114, 5:371-83.
- Reviews**
The most unorded act: lend lease, 1939-1941, by Warren F. Kimball. *Mid-America*, 52, 2:139-41.
- Heir to empire: United States economic diplomacy, 1916-1923, by Carl P. Parrini. *Pacific Historical Review*, 39, 4:479-80.
- PERMAN, MICHAEL J.**, Assistant Professor
- Articles**
The South and Congress's reconstruction policy, 1866-67. *Journal of American Studies*, 4, 2:1-21.
- Reviews**
Judicial power and reconstruction politics, by Stanley I. Kutler. *Ibid.*, 1:133-34.
- THADEN, EDWARD C.**, Professor
- Reviews**
The tragic dynasty: a history of the Romanovs, by John Bergamini. *Russian Review*, 29, 3:352-53.
- WOLF, JOHN B.**, Professor
- Books**
Toward a European balance of power, 1620-1715. Rand McNally, Chicago, 202 pp.
- Louis XIV (rev. ed.). Panther, London, 827 pp.
- JENSEN, RICHARD J.**, Associate Professor
- Articles**
Quantitative collective biography. In *Quantification in American history*, ed. by Robert Swierenga, Atheneum, New York, pp. 389-405.
- The religious and occupational roots of party identification: Illinois and Indiana in the 1870's. *Civil War History*, 16, 4:325-43.
- History. *Computers and the Humanities*, 4, 5:320-22.
- Reviews**
Looking at history through mathematics, by Nicholas Rashevsky. *Political Science Quarterly*, 85, 4:698-99.
- Violence in America, ed. by Hugh Graham and Ted Gurr. *Journal of American History*, 56, 4:882-86.
- DEVIN, B. BURNELL**, Instructor
- Articles**
Degas and "The Young Spartans Exercising." *Museum Studies, Art Institute of Chicago*, 1971, 4:49-65.
- INFORMATION ENGINEERING**
- ARZBAECHER, ROBERT C.**, Associate Professor
- Articles**
Hospital-based course in medical engineering.
- Presbyterian-St. Luke's Medical Bulletin*, 9, 3:51-57.
- With D. Durrer, R. Van Dam, G. Freud, M. Janis, F. Meijler
Total excitation of the human heart. *Circulation*, 41:899-912.
- TV eye-movement monitor with automatic coordinate printout. In *Proceedings of the national electronics conference*, 26, pp. 7-9.
- On-line monitoring and digital processing of human eye-fixations. In *Proceedings of the 23rd conference on engineering in biology and medicine*, p. 327.
- CHIOU, YUN-LEEI**, Assistant Professor
- Articles**
With R. J. Schwartz, H. W. Thompson, Jr.
Electrical conduction in niobium-niobium oxide-gold diodes. *Thin Solid Films*, 6:81-89.
- CONANT, ROGER C.**, Assistant Professor
- Articles**
An experimental undergraduate research seminar. *Institute of Electrical and Electronics Engineers Transactions on Education*. E-14, 1:21-23.
- With W. R. Ashby
Every good regulator of a system must be a model of that system. *International Journal of Systems Science*, 1, 2:89-97.
- CONSIGNY, RUCELLE, L., III**, Assistant Professor
- Articles**
With J. R. Madigan
Surface properties of cadmium selenide. *Solid State Electronics*, 13, 1:113-22.
- INADA, HITOSHI**, Assistant Professor
- Articles**
With M. A. Plonus
The geometric optics contribution to the scattering from a large, dense dielectric sphere. *Institute of Electrical and Electronics Engineers Transactions on Antennas and Propagation*, AP-18, 1:89-99.
- The diffracted field contribution to the scattering from a large, dense dielectric sphere. *Ibid.*, 5:649-60.
- ORSIC, MILJENKO**, Assistant Professor
- Articles**
With S. S. Yau
Fault diagnosis and repair of cutpoint cellular arrays. *Institute of Electrical and Electronics Engineers Transactions on Computers*, C-19, 3:259-62.
- SANATHANAN, CHATHILINGATH K.**, Associate Professor
- Articles**
With W. D. O'Neill
A minimum variance time optimal control systems model of human lens accommodation. *Institute of Electrical and Electronics Engineers Transactions on Systems Science and Cybernetics*, SSC-5, 4:290-99.
- TSAI, STEPHEN**, Assistant Professor
- Articles**
With P. McManamon, R. Janc
HF communications performance: coding and diversity. *Telecommunications*, 1970, August:27-32.

USLENGHI, PIERGIORGIO L. E., Associate Professor

Books

With J. J. Bowman, T. B. A. Senior
Electromagnetic and acoustic scattering by simple shapes. North-Holland Publishing Co., Amsterdam, 728 pp.

Articles

Un nuovo metodo per l'integrazione delle equazioni della termoclasticità di incomprimibili. *Bollettino della Unione Matematica Italiana*, 3(4), 2:201-7.

With V. Daniele, R. Zich

A note on the generalized Luneberg lenses. *Alta Frequenza*, 39, 5:400-404.
Computation of surface currents on bodies of revolution. *Ibid.*, 8:709-20.

LIBERAL ARTS AND SCIENCES

ADMINISTRATION

HESS, ROBERT L., Associate Dean and Associate Professor

Books

Ethiopia: the modernization of autocracy. Cornell University Press, Ithaca, New York, 272 pp.

Articles

An outline of Falasha history. In *Proceedings of the third international conference of Ethiopian studies*, Institute of Ethiopian Studies, Haile Sellassie I University, Addis Ababa, pp. 99-112.

Reviews

Ethiopia: the era of the princes; the challenge of Islam and the reunification of the Christian Empire, 1769-1855, by Mordechai Abir. *American Historical Review*, 75, 5:1502-3.

Africa to 1875; a modern history, by Robin Hallett. *Choice*, 7, 8:1118.

The African dream, by Brian Gardner. *Ibid.*, 10:1422.

LITTLE, ELLIS B., Associate Dean and Professor

Articles

With G. Nowell

Integration and scholastic performance: a pilot study of Chicago public high school graduates attending the University of Illinois, Chicago. *Psychological Reports*, 26: 887-91.

LIBRARY

BLUMENTHAL, JENNIFER G., Instructor

Books Edited

With M. Karaman, A. Peters

CODEN for periodical titles; ASTM D5 23B. American Society for Testing and Materials, Philadelphia, 972 pp.

MEIER, MARVIN O., Instructor

Reviews

Congress and the nation, 1965-1968; a review of government and politics, vol. 2. *RQ* (American Library Association Reference Services Division), 9, 3:277.

The international relations dictionary, by Jack C. Palno. *Ibid.*, p. 279.

The literature of political science; a guide for students, librarians, and teachers, by Clifton Brock. *Ibid.*, 4:355.

The Sino-Soviet dispute. *Ibid.*, p. 360.

MANAGEMENT

BAUM, BERNARD H., Professor

Articles

With P. Sorensen, W. Place

The effect of managerial training on organizational control; an experimental study. *Organizational Behavior and Human Performance*, 5, 2:170-82.

Behavioral science findings on influence in organizations: management implications. *Journal of Small Business Management*, 8: 16-21.

BARTLETT, HALE C., Associate Professor

Books Edited

Readings in physical distribution. The Interstate Printers and Publishers, Danville, Illinois, 442 pp.

Articles

The changing pattern of transportation. *Ibid.*, pp. 300-13.

MARKETING

FELDMAN, LAURENCE P., Assistant Professor

Articles

Prices, profits and the role of credit in low-income areas. *Journal of Retailing*, 46, 4: 3-13.

LARSON, CARL M., Professor

Articles

Changes in the Negro market. *Atlanta Economic Review*, 20, 7:22-23.

With H. G. Wales

Slogan awareness in the Chicago market. *Journal of Advertising Research*, 10, 6:38-41.

SCHLINGER, MARY J., Assistant Professor

Articles

Responses to advertising: varieties of liking and disliking. *Journalism Quarterly*, 47, 1: 45-56.

WEIGAND, ROBERT E., Professor

Articles

Aspects of retail pricing in Japan. *MSU-Business Topics*, 18, 1:23-30. (Also in *The Journal of the American Commerce in Japan*, 7, 5:59-67.)

Leaders in marketing. *Journal of Marketing*, 34, 4:32-33.

MATERIALS ENGINEERING

BELYTSCHKO, TED B., Assistant Professor

Articles

With P. G. Hodge, Jr.

Numerical methods for the limit analysis of plates. In *Mechanics 1970*, ed. by Lind, American Academy of Mechanics, Canada, pp. 139-45.

Plane stress limit analysis by finite elements. In *Proceedings of the American Society of Civil Engineers, Engineering Mechanics Division*, 96, EM6:931-44.

With M. A. Salmon

Burst strength of circular plates with reinforced openings. *Proceedings of the first international conference on pressure vessel technology*, pp. 421-30.

BLEWITT, THOMAS H., Professor

Articles

With R. E. Black, E. E. Gruber,
B. D. Sharma, J. A. Tesk

Cryostat-spectrometer system for precision measurement of lattice parameters of irradiated materials. *Review of Scientific Instruments*, 40:1429-32.

Bulletins and Technical Reports

Analysis of lattice parameter and electrical resistivity recovery in low-temperature neutron-irradiated copper. *American Physical Society Bulletin*, 15:358.

Radiation induced dimensional changes in zinc. *Ibid.*

BROWN, GRAHAM M., Assistant Professor

Articles

A small strain tension-torsion extensometer. *Review of Scientific Instruments*, 41, 3: 387-89.

A self-consistent polycrystalline model for creep under combined stress state. *Journal of the Mechanics and Physics of Solids*, 18: 367-82.

Inelastic deformation of an aluminum alloy under combined stress at elevated temperature. *Ibid.*, pp. 383-97.

BRYANT, ROBERT H., Assistant Professor

Articles

Solutions for axially symmetric orthotropic annular plates. *Journal of Aircraft*, 7, 6: 570-72.

CHANDRA, SUSHIL, Visiting Assistant Professor

Articles

With S. P. Shah

Fracture of concrete subjected to cyclic of sustained loading. *Journal of the American Concrete Institute*, 67, 10:816-25.

Mechanical behavior of concrete examined by ultrasonic measurements. *Journal of Materials*, 5, 3:550-63.

DOYLE, JAMES M., Associate Professor

Articles

With P. B. Dobrin

Vascular smooth muscle and the anisotropy of dog carotid artery. *Circulation Research*, 27: 105-19.

With M. Zar, S. L. Chu

Hydraulically dumped motion of gondola cars. *American Society of Mechanical Engineers*, paper no. 70-WA/RR-4, pp. 1-7.

GEIGER, GORDON H., Associate Professor

Articles

With C. R. Nanda

On the thermodynamics of oxygen in molten copper, copper-tin and copper-silver alloys. *Metallurgical Transactions*, 1:1235.

With D. T. Fagin

A study of the blending efficiency of hot metal mixers. In *Proceedings of the American Institute of Metallurgical Engineers basic oxygen steelmaking conference*, p. 58.

With R. W. Heins

Utilization of mine waste tailings from the upper Mississippi Valley lead-zinc district. In *Proceedings of the second annual mineral waste utilization conference*, Illinois Institute of Technology, Chicago, pp. 181-93.

With O. F. Angeles

The relation between shutdown procedures and possible hydrogen-induced flaking in thick-wall hydrogenation reactors. In *Proceedings of the American Petroleum Institute, Division of Refining annual meeting*, Houston, pp. 152-57.

MASUR, ERNEST F., Professor

Articles

Buckling, post-buckling and limit analysis of completely symmetric elastic structures. *International Journal of Solids and Structures*, 6:587-604.

Optimum stiffness and strength of elastic structures. *American Society of Civil Engineering, Journal of the Engineering Mechanics Division*, 96, EMS:621-40.

Discussion of bounding of frame buckling loads. *Journal of Structures Division, Proceedings of the American Society of Civil Engineering*, 96, ST12:2680-81.

Discussion of the linearization of prebuckling state and its effect on the determined instability loads. *American Society of Mechanical Engineering, Journal of Applied Mechanics*, 37, 3:883-84.

MULCAHY, THOMAS M., Assistant Professor

Articles

With E. M. Shoemaker

Column instabilities caused by cyclic loading. *International Journal of Solids and Structures*, 6:1011-19.

MOORE, CHARLES A., Assistant Professor

Articles

With T. J. Hirst

A low-friction seal for the triaxial test loading piston. *Materials Research and Standards*, 10, 10:27.

Applications of x-ray diffraction clay structural analysis to the understanding of the engineering behavior of soils. *American Society of Testing and Materials*, STP 479: 111-20.

Techniques for measuring the fabric of engineering soils. *Ibid.*, pp. 201-12.

Bulletins and Technical Reports

Observational methods in soil and rock engineering. In *Proceedings of the 1970 soils lecture series*, Illinois Institute of Technology, Chicago, 155 pp.

ROSTOKER, WILLIAM, Professor

Articles

With S. Y. Liu

Influence of porosity on the ductility of sintered brass. *Journal of Materials*, 5:605-17.

With J. Galante, R. D. Ray

The physical properties of trabecular bone. *Calcified Tissue Research*, 5:236-46.

SCHEY, JOHN A., Professor

Books Edited

Metal deformation processes: friction and lubrication. Marcel Dekker, Inc., New York, 824 pp.

Articles

Friction effects; lubricant properties; rolling lubrication. *Metal Deformation Processes: Friction and Lubrication*, ed. by Schey, New York, pp. 1-81, 241-332, 333-456.

With P. W. Wallace

Speed effects in hot closed die forging. In *Advances in machine tool design and re-*

search, ed. by Tobias and Koenigsberger, Pergamon Press, New York, pp. 525-35.

With J. A. Newnham

Effect of die composition on lubrication in metalworking. *Lubrication Engineering*, 26: 129-37.

Hydrostatic metalworking. *Metals Engineering Quarterly*, 10, 2:16-18.

SCHULTZ, ALBERT B., Associate Professor
Articles

With J. O. Galante, R. D. Ray, R. DeWald

Forces acting in the Milwaukee brace in patients undergoing treatment for idiopathic scoliosis. *Journal of Bone and Joint Surgery*, 52A, 3:498-506.

Dynamic behavior of metals under tensile impact, I: elevated temperature tests. *Journal of Applied Mechanics*, 37, E3:765-70.

Dynamic behavior of metals under tensile impact, II: annealed and cold-worked materials. *Ibid.*, pp. 771-77.

With J. O. Galante

A mathematical model for the study of the mechanics of the human vertebral column. *Journal of Biomechanics*, 3, 4:405-16.

SHAH, SURENDRA P., Associate Professor

Articles

With B. V. Rangan

Effects of reinforcements on ductility of concrete. *Journal of the Structural Division, Proceedings of the American Society of the Civil Engineers*, 96, ST6:1167-84.

With S. Chandra

Mechanical properties of concrete examined by ultrasonic measurements. *Journal of Materials*, 5, 3:550-63.

Fracture of concrete subjected to cyclic and sustained loading. *Journal of American Concrete Institute*, 67, 10:816-24.

TING, THOMAS C. T., Professor

Articles

Elastic-plastic boundaries in the propagation of plane and cylindrical waves of combined stress. *Quarterly of Applied Mathematics*, 27, 4:441-49.

WEINS, MICHAEL J., Assistant Professor

Articles

With H. Gleiter, B. Chalmers

Structure of symmetric tilt boundaries. *Scripta Metallurgica*, 4:235-38.

WIDERA, OTTO E., Associate Professor

Articles

An asymptotic theory for the motion of elastic plates. *Acta Mechanica*, 9:54-66.

Asymptotic theories for the unsymmetric vibrations of cylindrical shells, I: derivation. *Journal of Applied Mathematics and Physics (ZAMP)*, 21, 3:378-94.

Asymptotic theories for the unsymmetric vibrations of cylindrical shells, II: application. *Ibid.*, pp. 394-99.

An asymptotic theory for the vibrations of rotationally symmetric shells. *Journal of Applied Mathematics and Mechanics (ZAMM)*, 50:251-52.

An asymptotic theory for the large deflections of inhomogeneous plates. *Revue de Mécanique Appliquée*, 15, 3:579-88.

With S. Mirza

Three-dimensional photoelastic study of an anchor block. In 1970 fall meeting of the

Society for Experimental Stress Analysis, paper no. 963, p. 17.

With R. Amon

On the vibration of beam-reinforced circular plate type elements. In *Proceedings of the sixth conference on the dynamics of machines*, 1, pp. 84-93.

Vibration of a beam-reinforced circular plate. *Journal of Sound and Vibration*, 12, 4: 475-77.

Note on higher derivatives for problems involving a singular solution. *Indian Journal of Theoretical Physics*, 17, 4:119-23.

With R. Amon, R. Ahrens

On the problem of the annular plate, simply supported and loaded with an eccentric concentrated force. *Journal of the American Institute of Aeronautics and Astronautics*, 8, 5:961-63.

With R. Amon, P. Panicali

On the problem of the infinite elastic plate with a circular insert reinforced by a beam. *Journal of Nuclear Engineering and Design*, 12:475-83.

WU, CHIEN, H., Associate Professor

Articles

Tube to annulus: an exact nonlinear membrane solution. *Quarterly of Applied Mathematics*, 27, 4:489-96.

On certain integrable nonlinear membrane solutions. *Ibid.*, 28, 1:81-90.

On the solutions of a nonlinear membrane problem. *SIAM Journal of Applied Mathematics*, 18, 4:738-47.

A saint-venant principle for the Neumann problem with a non-thin two-dimensional domain. *International Journal of Engineering Sciences*, 8:389-402.

MATHEMATICS

BERMAN, JOEL D., Assistant Professor

Articles

With K. Hanes

Volumes of polyhedra inscribed in the unit sphere in E^3 . *Mathematische Annalen*, 188: 78-84.

DWINGER, PHILIP, Professor

Articles

The amalgamation problem from a categorical point of view. In *Proceedings of the conference on universal algebra*, October, 1969, Queen's University, Ontario, pp. 190-210.

FEINSTEIN, IRWIN K., Professor

Articles

The binary numeral system. In *Book of popular science*, vol. 9, Grolier, Inc., New York, pp. 293-99.

FONG, PAUL, Professor

Articles

A characterization of the finite simple groups $PSp(4, q)$, $G_2(q)$, and $D_4^*(q)$, II. *Nagoya Mathematical Journal*, 39:39-79.

FRANK, EVELYN, Professor

Articles

Continued fraction expansions of prescribed period for binomial quadratic surds. *Journal of Mathematical and Physical Sciences*, 4, 1:83-107.

Reviews

On P-expansions of power series by E. Magnus. *Zentralblatt für Mathematik*, 147, 2: 328-29.

HERING, MORTON E., Assistant Professor

Articles

A note on pseudo groups. *Journal of the Faculty of Science, University of Tokyo*, 16, 2:255-72.

Cup product, duality and periodicity for generalized group cohomology. *Fundamenta Mathematica*, 66, 66:99-121.

HERING, CHRISTOPH H., Associate Professor

Articles

Eine nicht desarguessche zweifach transitive affine Ebene der Ordnung 27. *Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg*, 34:203-8.

A new class of quasifields. *Mathematische Zeitschrift*, 118:56-57.

ITO, NOBORU, Professor

Articles

On finite groups with given conjugate types II. *Osaka Journal of Mathematics*, 7:231-51.

On finite groups with given conjugate types III. *Mathematische Zeitschrift*, 117:267-71.

On permutation groups of prime degree p which contain at least two classes of conjugate subgroups of index p , II. *Nagoya Mathematical Journal*, 37:201-8.

Note on the characters of solvable groups. *Ibid.*, pp. 23-28.

KANTOROVITZ, SHMUEL, Professor

Articles

On the operational calculus for groups of operators. *Proceedings of the American Mathematical Society*, 26, 4:603-8.

KNOPP, MARVIN I., Professor

Books

Modular functions in analytic number theory. Markham Publishing Co., Chicago, 150 pp.

Articles

A corona theorem for automorphic forms and related results. *American Journal of Mathematics*, 91, 3:599-618.

With J. R. Smart

Hecke basis theorems for groups of genus 0. *Journal of Research*, 74B, 3:131-48.

MARTINEAU, ROBERT P., Visiting Assistant Professor

Articles

On groups admitting a fixed-point-free automorphism group. *Proceedings of the London Mathematical Society Series 3*, 21, 3:401-10.

RAGHAVAN, T. E. S., Assistant Professor

Articles

Convex cones and finite optimals. *Annals of Mathematical Statistics*, 41, 2:702-5.

On linear operators leaving a convex set invariant in normed linear spaces. *Mathematika*, 17:57-62.

Completely mixed strategies in bimatrix games. *Journal of the London Mathematical Society*, 2, 2:709-12.

RAMANATHAN, G. V., Visiting Associate Professor

Articles

With J. M. Dawson, M. D. Kruskal

Entropy principle for the derivation of a new cluster expansion. *Journal of Mathematical Physics*, 11, 1:339-42.

With A. H. Kritz, G. Sandri

Physical basis for finite correlation length. *Physics Letters*, 31A, 9:477-78.

Finite two-body correlation length without three-body collisions. *Physical Review Letters*, 25, 7:437-40.

SOARE, ROBERT I., Associate Professor

Articles

With R. O. Gandy

A problem in the theory of constructive order types. *Journal of Symbolic Logic*, 35, 1: 119-21.

With C. G. Jockusch, Jr.

Minimal covers and arithmetic sets. *Proceedings of American Mathematical Society*, 25, 4:856-59.

TANGORA, MARTIN C., Assistant Professor

Articles

On the cohomology of the Steenrod algebra. *Mathematische Zeitschrift*, 116, 1:18-64.

Some extension questions in the Adams spectral sequence. *Proceedings of the Advanced Study Institute in Algebraic Topology, Aarhus, Denmark*, 3:578-87.

TWERSKY, VICTOR, Professor

Books Edited

Bernard Friedman's lectures on applications-oriented mathematics. Holden-Day, Inc., San Francisco, 257 pp.

Articles

Interface effects in multiple scattering by large low-refracting absorbing particles. *Journal of the Optical Society of America*, 60, 7:908-14.

Absorption and multiple scattering by biological suspensions. *Ibid.*, 8:1084-93.

MUSIC

KADERAVEK, MILAN, Associate Professor and Head of Department

Music

I announced your justice, for SATB choir with organ accompaniment. World Library Publications, Inc., Cincinnati, Ohio, 16 pp.

PHILOSOPHY

BARTKY, SANDRA L., Associate Professor

Articles

Originative thinking in the later philosophy of Heidegger. *Philosophy and Phenomenological Research*, 30, 3:368-81.

EATON, MARCIA MUELDER, Assistant Professor

Articles

Good and correct interpretation of literature. *The Journal of Aesthetics and Art Criticism*, 29, 2:227-33.

JUBIEN, MICHAEL, Instructor

Articles

Essential properties and reduction. *The Journal of Philosophy*, 67, 24:1024-26.

PARSONS, KATHRYN PYNE, Assistant Professor

Articles

Mistaking sensations. *Philosophical Review*, 79, 2:201-13.

PARSONS, TERENCE D., Associate Professor

Articles

Various extensional notions of ontological commitment. *Philosophical Studies*, 21, 5: 65-74.

An analysis of mass terms and amount terms. *Foundations of Language*, 6, 3:362-88.

Some problems concerning the logic of grammatical modifiers. *Synthese*, 21, 3-4: 320-34.

TELLER, PAUL R., Assistant Professor

Articles

Some discussion and extension of Manfred Bierwisch's work on German adjectivals. *Foundations of Language*, 5, 2:185-217.

Goodman's theory of projection. *British Journal for the Philosophy of Science*, 20:219-38.

THALBERG, IRVING, Professor

Articles

Austin on abilities. In *Symposium on Austin*, ed. by Fann, Routledge, Kegan and Paul, London, pp. 181-98.

WELLS, DONALD A., Professor and Chairman

Articles

The "just war" justifies too much. In *A philosophy for a new generation*, ed. by James A. Gould and Arthur Bierman, Macmillan, New York, pp. 218-30.

Is "just violence" like "just war"? *Social Theory and Practice*, 1, 1:26-38.

Can any war be "just"? In *Philosophy of the new left*, ed. by Arthur Lothstein, Longmans, London, pp. 247-70.

PHYSICAL EDUCATION FOR MEN

FORDHAM, SHELDON L., Professor

Articles

Inner city demands on the use of university facilities. In *Proceedings of annual meeting of National College Physical Education Association for Men*, December 27-30, 1970.

ROETZHEIM, WILLIAM H., Associate Professor

Articles

Gymnastic judging comes of age. *The Modern Gymnast Magazine*, 11, 12:26-29.

Bulgaria versus U.S.A. *Ibid.*, 12, 3:6-7.

World game trials. *Ibid.*, 10:10-11.

Report on the world gymnastic championship. *Ibid.*, 12:10-12.

U.S.A. versus Switzerland and Japan. *Ibid.*, 13, 1:10-11.

Competitive gymnastics at the secondary level. In *The magic of gymnastics*, ed. by Gerald George, Sundby Publications, Santa Monica, California, pp. 152-53.

Gymnastic judging comes of age. In *The art and science of judging*, ed. by Richard M. Aronson, Lowell Technological Institute Publication, Lowell, Massachusetts, pp. 22-28.

ROTHERMEL, BRADLEY L., Associate Professor

Articles

Selected physical fitness characteristics of professional baseball players. In *Exercise and fitness*, ed. by B. Don Franks, The Athletic Institute, Chicago, pp. 97-106.

A historical review of significant developments in the area of evaluation and measurement as the area pertained to professional preparation in health, physical education, and recreation. In *Proceedings of the 23rd annual I.A.P.P.H.P.E.R. conference*, 23:37-41.

PHYSICS

ABRAMS, ROBERT J., Assistant Professor

Articles

With R. L. Cool, G. Giacomelli, T. F. Kycia, B. A. Leontic, and others

Total cross sections of K^{\pm} mesons and anti-protons on nucleons up to 3.3 GeV/c. *The Physical Review D*, 1, 7:1917-35.

With R. L. Cool, G. Giacomelli, T. F. Kycia, B. A. Leontic, K. K. Li, D. N. Michael

Measurement of p-p and p-d total cross sections at 3.00 GeV/c. *Ibid.*, 9:2477-80.

CARHART, RICHARD A., Associate Professor

Articles

With S. O. Aks

Renormalized perturbation theory for the weakly nonlinear oscillator. *Journal of Mathematical Physics*, 11, 1:214-22.

CLAUS, HELMUT, Assistant Professor

Articles

With S. Mishra, P. A. Beck

Paramagnetism in Ni-Cu alloys. *Physics Letters*, 31A, 9:493-94.

With P. A. Beck

Density of states information from specific heat. *Journal of Research of the National Bureau of Standards-A. Physics and Chemistry*, 74A, 3:449-54.

With E. E. Barton

Magnetic properties of dilute alloys. *Physical Review*, 1B, 9:3741-47.

EDELSTEIN, ALAN S., Associate Professor

Articles

Condensation into a high-temperature spin compensated state: α Ce. *Solid State Communications*, 8, 22:1849-52.

With H. V. Culbert

Non-localization of the Kondo state in a Kondo superconductor. *Ibid.*, pp. 445-49.

With J. W. Garland, K. H. Bennemann

Spin relaxation and the Kondo effect. *Journal of Applied Physics*, 41, 3:1148-50.

GARLAND, JAMES W., Professor

Articles

With K. H. Bennemann, A. Ron, A. S. Edelstein

Spin lattice relaxation and the Kondo effect. *Journal of Applied Physics*, 41, 3:1148-50.

GOLDBERG, HOWARD S., Associate Professor

Articles

With S. H. Aronson, R. D. Ehrlich, H. Hofer, D. A. Jensen, and others

Precise determination of the K_L - K_S mass dif-

ference by the gap method. *Physical Review Letters*, 25, 15:1057.

JACKSON, JEROME E., Visiting Assistant Professor

Articles

With E. N. Mitchell, G. L. Wells
Superconducting gap anisotropy in aluminum. *Physical Review*, B1, 9:3636-44.

KOUVEL, JAMES S., Professor

Articles

Effects of atomic order-disorder on magnetic properties. *Magnetism and Metallurgy*, ed. by A. Berkowitz and E. Kneller, Academic Press, Inc., New York, pp. 523-75.

With J. B. Conly

Giant moments in paramagnetic Ni-Cu alloys. *Physical Review Letters*, 24, 11:598-601.

With R. W. Houghton, M. P. Sarachik

Electrical resistivity and magnetoresistance of paramagnetic Ni-Cu giant-moment alloys. *Solid State Communications*, 8, 12:943-45.

With R. W. Houghton, M. P. Sarachik

Anomalous electrical resistivity and the existence of giant magnetic moments in Ni-Cu alloys. *Physical Review Letters*, 25, 4:238-39.

KRIEGER, STEPHAN J., Associate Professor

Articles

Hartree-Fock calculations of even-even $N=Z$ nuclei. *Physical Review*, C1:76-84.

With E. C. Halbert

The shell model. *Comments on Nuclear and Particle Physics*, 4:33-42.

LICHT, ARTHUR L., Assistant Professor

Articles

With A. Pagnamenta

Wave functions and form factors for relativistic composite particles, I. *Physical Review*, D2, 6:1150-56.

Wave functions and form factors for relativistic composite particles, II. *Ibid.*, pp. 1156-60.

PAGNAMENTA, ANTONIO, Associate Professor

Articles

The significance of multiple scattering for the Quark Model. In *International conference on quark models and symmetries, Detroit 1970*, ed. by R. Chand, Gordon and Breach, New York, pp. 254-65.

Multiple scattering and regge cuts. In *Conference on regge cuts, University of Wisconsin, 1969*, ed. by E. Fishbane and M. Simmons, University of Wisconsin Press, Madison, pp. 109-19.

With F. Rohrlich

Theory of the scattering operator; \mathcal{O}_n models in perturbation theory. *Physical Review*, D, 1:1640-54.

With G. C. Joshi

Veneziano amplitude for πN scattering. *Ibid.*, pp. 1317-27.

Construction of a dual amplitude for nucleon-nucleon and nucleon-antinucleon scattering. *Particles and Nuclei*, 1, 3:220-27.

With A. L. Licht

Wave functions and form factors for relativistic composite particles, I. *Physical Review*, D, 2:1150-56.

Wave functions and form factors for relativistic composite particles, II. *Ibid.*, pp. 1156-64.

With A. Gleeson, M. Gundzik, E. C. G. Sudarshan

Phenomenology of complex spin tachyons. *Particles and Nuclei*, 1, 1:1-14.

RING, JAMES G., Assistant Professor

Articles

The effect of point defects in Cu on the anomalous transmission of X-rays. *Physical Review*, B, 2, 8:2913.

SCHREIBER, DAVID S., Associate Professor

Articles

Conduction electron exchange coupling in rare earth hydrogen systems. *Bulletin of the American Physical Society*, 15:276.

With E. von Meerwall

Effects of non-uniform electronic environment on NMR of disordered V-Mn. *Ibid.*, p. 256.

SHARMA, RAM R., Associate Professor

Articles

Nuclear quadrupole moment of Al^{27} in Al_2O_3 . *Physical Review Letters*, 25, 23:1622-23.

Temperature variation of zero-field splitting in $CdCl_2:Mn^{2+}$. *Physical Review*, 2, 8:3316-18.

Zero-field splitting of a 6S ion in trigonal symmetry. *Bulletin of American Physical Society*, 15, 1:110.

Zero-field splitting and anharmonic effects in $CdCl_2:Mn^{2+}$. *Ibid.*, p. 94.

SOLN, JOSEF Z., Assistant Professor

Articles

Meson-Baryon interactions with Baryons belonging to the non-linear representations of Chiral $U(3) \times U(3)$. *Physical Review* D2:2404.

SOLOMON, JULIUS, Associate Professor

Articles

With D. A. Jensen, S. H. Aronson, R. D. Ehrlich, D. Fryberger, and others

Measurement of the relative phase of the $K_L \rightarrow \pi^+\pi^-$ and $K_S \rightarrow \pi^+\pi^-$ decay amplitudes by vacuum regeneration. *Physical Review Letters* 23:615-19.

With S. H. Aronson, R. D. Ehrlich, H. Hofer, D. A. Jensen, and others

Precise determination of the $K_L - K_S$ mass difference by the gap method (University of Chicago-University of Illinois at Chicago Circle collaboration). *Ibid.*, 25:1057-60.

VARGA, BENDEGUZ B., Assistant Professor

Articles

With S. Aks

Phase operator for the harmonic oscillator. *Physics Letters*, 31A, 1:40-41.

VEZZETTI, DAVID J., Associate Professor

Articles

With C. J. Thompson, A. J. F. Siegert

On the Ising model with long range interaction, II: critical region analysis. *Journal of Mathematical Physics*, 11:1018-28.

With J. B. Jalickee, A. J. F. Siegert

On fluids of particles with short range re-

pulsion and weak long range attractive interaction, II: the two particle distribution function. *Ibid.*, pp. 3168-76.

POLITICAL SCIENCE

BARKER, TWILEY W., Professor

Books

With L. J. Barker

Civil liberties and the Constitution: cases and commentaries. Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 471 pp.

Articles

With L. J. Barker

The guarantee of civil rights. In *CON-CON: issues for the Illinois Constitutional Convention*, ed. by Samuel K. Gove and Victoria Ranney, University of Illinois Press, Urbana, 25 pp.

BEAM, GEORGE D., Associate Professor

Books

Usual politics: a critique and some suggestions for an alternative. Holt, Rinehart and Winston, New York, 196 pp.

GRABER, DORIS A., Professor

Articles

Public opinion and foreign policy. In *Introduction to international politics: a multi-method approach*, ed. by Coplin and Kegley, Markham, Chicago, pp. 229-45.

Conflict images: an assessment of the mid-east debates in the United Nations. *Journal of Politics*, 32:339-78.

Reviews

The global partnership, by Richard N. Gardner and Max F. Millikan. *Political Science Quarterly*, 85, 1:115-16.

JOHNSON, RICHARD M., Professor and Head of Department

Articles

With E. F. Cataldo, L. A. Kellstedt, L. W. Milbrath

Card sorting as a technique for survey interviewing. *Public Opinion Quarterly*, 34, 2:202-15.

KOH, BYUNG C., Associate Professor

Articles

The two Koreas. *Current History*, 58:202-16. Ideology and political control in North Korea. *Journal of Politics*, 32, 3:655-74.

LEEGE, DAVID C., Associate Professor

Articles

Control in the party convention nominating system: the case of Indiana. In *Empirical studies of Indiana politics*, ed. by James B. Kessler, Indiana University Press, Bloomington, pp. 200-26.

SIMPSON, DICK W., Assistant Professor

Books

Who rules? Introduction to the study of politics. Swallow Press, Chicago, 142 pp.

TACHAU, FRANK, Associate Professor

Books

The Middle East. Macmillan, New York, 168 pp.

Reviews

Republican Iraq, by M. Khadduri. *Choice*, 7, 4:609.

PSYCHOLOGY

ASH, PHILIP, Professor

Articles

Industrial psychology. In *Jobs in psychology*, ed. by Ash, Science Research Associates, Chicago, pp. 27-30.

Discussion is a business function, too. *Personnel*, 47, 6:49-54.

The parties to the grievance. *Personnel Psychology*, 23, 1:13-37.

Psychology Examining Committee reviews certification law. *Illinois Psychologist*, 1970, November-December:9-14.

The validation of an instrument to predict the likelihood of employee theft. In *Proceedings, American Psychological Association 78th annual convention*, 1970, pp. 579-80.

With W. H. Enneis, K. F. Schenkel, R. H. Hudson

The black man in the world of work. *Professional Psychology*, 1, 5:435-44.

Bulletins and Technical Reports

Jobs in psychology (rev. ed.). Science Research Associates, Inc., Chicago, 48 pp.

BENTON, ALAN A., Assistant Professor

Articles

With I. D. Steiner

Social psychology. In *Jobs in psychology*, ed. by Philip Ash, Science Research Associates, Inc., Chicago, pp. 38-40.

BERKSON, GERSHON B., Associate Professor

Articles

Defective infants in a feral monkey group. *Folia Primatologica*, 12, 4:284-89.

With T. S. Brown

Orienting response of kittens with lesions of the superior colliculus. *Psychonomic Science*, 18, 3:153-54.

Orienting response of kittens with maturation defects. *Developmental Psychobiology*, 2, 4:247-50.

CARTWRIGHT, ROSALIND D., Professor

Articles

The relation of daytime events to the sleep and dreams that follow. In *Dreams and sleeping*, ed. by Hartmann, Little, Brown and Co., and International Psychiatry Clinics, Boston, Massachusetts, pp. 227-31.

Reviews

Studies in psychotherapy and behavior change, vol. 1: research in individual psychotherapy, by Marvin J. Feldman. *Contemporary Psychology*, 15:179-80.

DOMINOWSKI, ROGER L., Associate Professor and Associate Head of Department

Articles

Problem solving and concept attainment. In *Learning: interactions*, ed. by Marx, Macmillan, Toronto, pp. 107-91.

With J. Chlebek

The effect of practice on utilization of information from positive and negative instances in identifying disjunctive concepts. *Canadian Journal of Psychology*, 24: 64-69.

ERON, LEONARD D., Professor

Articles

With E. H. Klatskin

Projective test content during pregnancy and postpartum adjustment. *Psychosomatic Medicine*, 32, 5:487-93.

GRUDER, CHARLES L., Assistant Professor

Articles

Social power in interpersonal negotiation. In *The structure of conflict*, ed. by Swingle, Academic Press, New York, pp. 111-54.

MARKLE, SUSAN M., Professor

Articles

Programming and programmed instruction. In *To improve learning: an evaluation of instructional technology*, ed. by S. G. Tickton, R. R. Bowker Co., New York, pp. 293-97.

Programmed instruction in the classroom. *Illinois Journal of Education*, 61, 2:48-52.

With P. W. Tiemann

Problems of conceptual learning. *British Journal of Educational Technology*, 1, 1:52-62.

"Behavioral" analysis of "cognitive" content. *Educational Technology*, 10, 1:41-45.

MILLER, LEON K., Assistant Professor

Articles

Methodological note on masking effects in vision. *Perceptual and Motor Skills*, 30:582.

ROSEN, ALEXANDER J., Assistant Professor

Articles

With E. Burowitz, R. Tessel

Incentive shift performance in cingulectomized rats. *Journal of Comparative and Physiological Psychology*, 70:476-81.

With R. Tessel

Effects of amobarbital sodium on the acquisition and extinction of a lever-press spatial discrimination in the rat. *Archives Internationales de Pharmacodynamie et de Thérapie*, 187:150-56.

ROSENBERG, SHELDON, Professor

Articles

Problems of language development in the retarded. In *Social-cultural aspects of mental retardation*, ed. by H. C. Haywood, Appleton-Century-Crofts, New York, pp. 203-16.

The source of facilitation in the recall of context words that accompany associatively related words in connected discourse. *Journal of Experimental Psychology*, 83:504-5.

With H. Van Every

Semantics, phrase structure and age as variables in sentence recall. *Child Development*, 41:853-59.

With R. J. Jarvella

Semantic integration and sentence perception. *Journal of Verbal Learning and Verbal Behavior*, 9:548-53.

SUSHINSKY, LEONARD W., Instructor

Articles

An illustration of a behavioral therapy intervention with nursing staff in a therapeutic role. *Journal of Psychiatric Nursing and Mental Health Services*, 5, 1970.

With R. R. Bootsin

Cognitive desensitization as a model of systematic desensitization. *Behaviour Research and Therapy*, 8, 1:29-33.

TORNEY, JUDITH V., Lecturer in Psychology and Associate Professor of Education

See Education.

UPSHAW, HARRY S., Professor and Head of Department

Articles

Stimulus range and the judgmental unit. *Journal of Experimental Social Psychology*, 5:1-11.

The effect of unit size on the range of the reference scale. *Ibid.*, 6:129-39.

WYER, ROBERT S., JR., Associate Professor

Articles

Information redundancy, inconsistency and novelty and their role in impression formation. *Journal of Experimental Social Psychology*, 6:111-27.

The prediction of evaluations of social role occupants as a function of the favorableness, relevance and probability associated with attributes of these occupants. *Sociometry*, 33:79-96.

The quantitative prediction of belief and opinion change: a further test of a subjective probability model. *Journal of Personality and Social Psychology*, 16:559-71.

With L. Goldberg

A probabilistic analysis of the relationships among beliefs and attitudes. *Psychological Review*, 77:100-20.

With J. Lyon

A test of cognitive balance theory implications for social inference processes. *Journal of Personality and Social Psychology*, 16:598-618.

Reviews

Personality theory and research, ed. by E. F. Borgatta and W. Lambert. *Contemporary Psychology*, 15:593-96.

SLAVIC LANGUAGES AND LITERATURES

PRIBIC, ELIZABETH, Associate Professor

Articles

Reštavracia. Obrazy z nedávnych časov. *Kinďlers Literatúr Lexikon*, 6:2396.

Šarkan na re'azi. *Ibid.*, p. 3286.

Sklený vrch. *Ibid.*, p. 3360.

Smrt' chodí po horách. *Ibid.*, p. 3374.

Skrytý prameň. *Ibid.*, p. 3804.

Statky-Zmätky. *Ibid.*, p. 3857.

Stroje sa pohli. *Ibid.*, p. 3865.

Reviews

Bernolákovo jazykovedné dielo, by Katarína Habovštiaková. *Súdob-Forschungen*, 29.

Poézia Fraňa Kráľa a problémy slovenskej poetiky, by Ján Brezina. *Ibid.*

Počiatky slovenskej novodobej prózy, by Viliam Marčok. *Ibid.*

Vajanský a Turgenjev, by Andrej Červeňák. *Ibid.*

Stopadesát let česko-ukrajinských literárných styků. *Ibid.*, pp. 357-58.

Literárne vzťahy Slovákov a južných Slovanov. *Ibid.*, p. 358-59.

SOCIAL WORK

ANDERSON, CLAIRE M., Associate Professor

Articles

With S. E. Zimbalist

The social welfare manpower crises revisited:

a study of personnel needs in the Chicago area. *Social Service Review*, 44, 4:452-59.

With E. E. Schwartz, N. Viswanathan

Approaches to the analysis of social service systems. In *Planning, programming, budgeting systems and social welfare*, ed. by Schwartz, University of Chicago Press, Chicago, pp. 42-51.

JOHNSON, JOY D., Assistant Professor

Articles

With A. Mendlovitz, S. Schmidt, H. Schildcrout

Social workers and the long term care facility: a social service sampler. *Nursing Homes*, 19, 8:16-17, 34-36.

MAGNER, GEORGE W., Professor and Associate Director

Books Edited

With T. L. Briggs

Leadership training in mental health. National Association of Social Workers, New York, 104 pp.

Articles

Trends: social work practice in mental health, 1955-69. *Abstracts for Social Workers*, 6, 3:3-14.

With T. L. Briggs

Evolution of the leadership training program. In *Leadership training in mental health*, National Association of Social Workers, New York, pp. 9-21.

VISWANATHAN, NARAYAN, Associate Professor

Articles

With E. E. Schwartz, C. M. Anderson

Approaches to the analysis of social service systems. In *Planning, programming, budgeting systems and social welfare*, ed. by Schwartz, University of Chicago, Chicago.

ZIMBALIST, SIDNEY E., Professor

Articles

With C. M. Anderson

The social welfare manpower crises revisited. *Social Service Review*, 44, 4:452-59.

Survey of residents' attitudes in six selected sites. In *Human needs in public housing*, ed. by Murray, Welfare Council of Metropolitan Chicago, Chicago, pp. 170-229.

Bulletins and Technical Reports

With C. M. Anderson

Social welfare manpower needs in the Chicago area. Welfare Council of Metropolitan Chicago, Chicago, 90 pp.

Reviews

The new social work series (4 vols.), ed. by Harold Weissman. *Social Work*, 15, 1: 123-28.

SOCIOLOGY

HALL, ROBERT L., Professor and Head of Department

Reviews

Interdisciplinary relationships in the social sciences, ed. by Muzafer Sherif and Carolyn Sherif. *American Sociological Review*, 35, 3:542-43.

LITTLE, ROGER W., Professor

Articles

The dossier in military organization. In *On*

record: files and dossiers in American life, ed. by Stanton Wheeler, Russell Sage Foundation, New York, pp. 255-74.

Field research in military organization. In *Pathways to data*, ed. by R. W. Habenstein, Aldine Press, Chicago, pp. 163-84.

SCHWARTZ, MILDRED A., Professor

Reviews

Canadian labour in politics, by G. Horowitz. *Political Science Quarterly*, 85, 4:692-94.

SHANAS, ETHEL, Professor

Books Edited

Aging in contemporary society, special edition of *American Behavioral Scientist*. Sage Publications, Beverly Hills, California, 14, 1:129 pp.

Articles

Social research and social policy in the field of old age. In *Human nature and collective behavior*, ed. by Tamotsu Shibutani, Prentice-Hall, Englewood Cliffs, New Jersey, pp. 354-66.

Rationale for social research in aging and social welfare policy. In *Symposium on research and welfare policies for the elderly*, ed. by United Nations European Social Development Programme, United Nations, New York, pp. 4-15.

Aging and life space in Poland and the United States. *Journal of Health and Social Behavior*, 11, 3:183-89.

Health and adjustment in retirement. *The Gerontologist*, 10, 1:9-21.

What's new in old age? *American Behavioral Scientist*, 14, 1:5-11.

WILEY, JAMES A., Instructor

Articles

With D. E. Wiley

The estimation of measurement error in panel data. *American Sociological Review*, 35, 1:112-17.

With P. Cutright

Modernization and political representation. *Studies in Comparative International Development*, 5, 2:23-44.

SPANISH, ITALIAN, AND PORTUGUESE

BARTELL, DONALD, Instructor

Articles

With J. Carsello

Increasing rate of reading a foreign language. *Journal of Reading*, 14, 3:171-72.

BERGQUIST, VIOLET, Associate Professor

Articles

The advanced-level course in high school. In *A handbook for teachers of Spanish and Portuguese*, ed. by Walsh, D. C. Heath & Co., Boston, pp. 108-13.

New developments in the F.L. classroom. In *Effective F.L. instruction in the secondary school*, ed. by Smith and Leamon, Prentice-Hall, Englewood Cliffs, New Jersey, pp. 118-26.

BLANCO-GONZALEZ, MANUEL, Associate Professor

Books

Tu mundo propio, short-stories. Gredos, Madrid, 200 pp.

Memoria y tiempo, poetry. *Ibid.*, 50 pp.

BRAUN, LUCILLE V., Assistant Professor

Articles

Galdós' re-creation of Ernestina Manuel de Villena as Guillermina Pachedo. *Hispanic Review*, 38, 1:32-55.

CRAMER, MARK, Instructor

Poems

Plain Horizon. *Fireflower* (Canada), February/April:13.

Mexican Park. *Ibid.*, p. 21

Never meaning to sever a thing. *Merlin's Magic*, 11:2.

Untitled. *Haiku highlights and other short poems*, July/August:16.

Untitled. *Ibid.*, November/December:16.

To a poet. *Ibid.*

Untitled. *Ibid.*, January/February:21.

DUTTON, BRIAN, Professor and Head of Department

Books

French for the motor industry, Society of Motor Manufacturers, London, 318 pp.

With L. P. Harvey, R. M. Walker

Cassell compact Spanish dictionary, Cassell & Co., London, 444 pp.

Articles

Buen Amor: its meaning and uses in some medieval texts. In *Libro de buen amor studies*, ed. by G. Gybbon-Monypenny, Tamesis, London, England, pp. 95-120.

EL SAFFAR, RUTH S., Assistant Professor

Articles

Apropos of Don Quixote: hero or fool? *Modern Language Notes*, 85, 2:269-73.

LUCAS, ISIDRO, Visiting Assistant Professor

Books

Seneca en tres ensayistas del barroco español: Quevedo, Saavedra Fajardo y Baltasar Gracian. Extracto de Tesis Doctoral. Universidad de Madrid, Madrid, 82 pp.

Articles

Los Puertorriqueños en los Estados Unidos: Una sociedad marginal. *Razon y Fe*, 1:75-84.

El teatro campesino en California. *Reseña*, 38:459-63.

RODRIGUEZ-FLORIDO, JORGE J., Instructor

Bulletins and Technical Reports

La luz (2 issues). National Textbook Co., Skokie, Illinois, 16 pp.

SPEECH AND THEATRE

BERTHOLD, CAROL A., Instructor

Articles

A descriptive study of selected characteristics of debate judges' ballots. *The Journal of the American Forensic Association*, 7, 1:30-35.

HANEY, JOHN B., Professor

Books

With E. J. Ulmer

Educational media and the teacher. William C. Brown Co., Dubuque, Iowa, 128 pp.

Reviews

The teaching-learning paradox, by Robert

Dubin and Thomas C. Taveggia; and New media and college teaching, ed. by James W. Thornton and James W. Brown. *AV Communication Review*, 17, 4:434-39.

HOLT, GRACE S., Associate Professor

Articles

The ethnolinguistic approach to speech language learning. *The Speech Teacher*, 19, 2:98-100.

Implications of research in communication education for the black child. In *Sixth annual summer conference of the Speech Communication Association of America*, July 9-10, 1970.

Speech communication for the black American. *The Bulletin of the National Association of Secondary School Principals*, December, 1970.

KOCHMAN, THOMAS M., Associate Professor

Articles

Toward an ethnography of Black American speech behavior. In *Afro-American anthropology*, ed. by Norman E. Whitten, Jr. and John F. Szwed, The Free Press, New York, pp. 145-62.

"Rapping" in the black ghetto. *Trans-action*, 6, 1:26-34.

Social factors in the consideration of teaching standard English. *The Florida FL Reporter*, 7, 1:87-88, 157.

Culture and communication: implications for a black English curriculum. *Ibid.*, pp. 89-92, 172-74.

SKORNIA, HARRY J., Professor

Articles

Don't give viewers what they want. In *Television*, ed. by Barry G. Cole, The Free Press, Macmillan Co., New York, pp. 434-36.

A new generation look at broadcast public affairs. *Journal of College Radio*, 8, 3:5-9.

Reviews

National and international systems of broadcasting: their history, operation and control. *Journal of Aesthetic Education*, 4, 31: 158-67.

Democracy, dissent and disorder, by Robert F. Drinan, S.J. *Ibid.*, 3:155-57.

Structure and performance of the U.S. communications industry, by Kurt Bouchardt. *Journal of Broadcasting*, 14, 4:512-13.

WOOD, BARBARA S., Professor

Articles

With F. Williams

Negro children's speech: some social differences in word predictability. *Language and Speech*, 13, 3:141-50.

STUDENT COUNSELING SERVICE

BAER, JEAN H., Professor

Articles

With P. Ash

Counseling psychology. In *Jobs in psychology*, ed. by Ash, Science Research Associates, Chicago, pp. 20-24.

BERMAN, LOUIS A., Professor

Reviews

The Jewish mystique, by Ernest van den Haag. *Jewish Social Studies*, 32:234-38.

CARSELLO, CARMEN J., Instructor

Articles

With D. E. Bartell

Increasing rate of reading a foreign language. *Journal of Reading*, 14, 3.

With J. W. Creaser, M. Jacobs, L. C. Zaccaria
Effects of shortened time limits on the Nelson-Denny Reading Test. *Ibid.*, pp. 167-70.

CREASER, JAMES W., Assistant Professor

Articles

With M. Jacobs, L. C. Zaccaria, C. J. Carsello
Effects of shortened time limits on the Nelson-Denny Reading Test. *Journal of Reading*, 14, 3:167-70.

With L. C. Zaccaria

Personality differences between counseled and uncounseled students: a need for replication studies. *Measurement and Evaluation in Guidance*, 3, 3:133-37.

JACOBS, MITCHELL, Psychometrist

Articles

With J. W. Creaser, L. C. Zaccaria, C. J. Carsello

Effects of shortened time limits on the Nelson-Denny Reading Test. *Journal of Reading*, 14, 3:167-70.

JOHNSON, MARIE L., Assistant Professor

Articles

With F. S. Irvin

Effect of differential instructional set on sentence completion responses. *Journal of Consulting and Clinical Psychology*, 34, 3:319-22.

LA PLANTE, MARGARET J., Instructor

Articles

With F. S. Irvin

Sentence completion responses and academic performance re-examined. *Journal of Projective Techniques and Personality Assessment*, 34, 3:219-22.

SHERIDAN, EDWARD P., Assistant Professor

Articles

Issues relating to responsibility to profession and community regarding sensitivity training. *Illinois Psychologist*, 1970:37-38.

WHITMAN, MYRON A., Assistant Professor

Articles

Learning as a function of MA, IQ, and institutionalization. *American Institute for Mental Studies: The Training School Bulletin*, 67, 2:123-30.

ZACCARIA, LUCY C., Associate Professor

Articles

With J. W. Creaser

Personality differences between counseled and uncounseled students: a need for replication studies. *Measurement and Evaluation in Guidance*, 3, 3:133-37.

With J. W. Creaser, M. Jacobs, C. J. Carsello

Effects of shortened time limits on the Nelson-Denny Reading Test. *Journal of Reading*, 14, 3:167-70.

SYSTEMS ENGINEERING

AGARWAL, GYAN C., Associate Professor

Articles

With G. L. Gottlieb

Control and regulation of the human motor system. In *Proceedings of the Princeton conference on information sciences and systems*, March, 1970, pp. 30-34.

Filtering of electromyographic signals. *American Journal of Physical Medicine*, 49, 2: 142-46.

Nonlinearities in human postural control system. In *Proceeding of the southwestern IEEE conference*, April, 1970, IEEE catalog no. 7005, pp. 142-46.

A model of muscle activity. In *Proceedings of the sixth annual conference on manual control*, April, 1970, Wright Patterson Air Force Base, pp. 177-93.

Direct evidence against sampling at the alpha motoneuron. In *Proceedings of the sixth annual conference on manual control*, April 1970, Wright Patterson Air Force Base, pp. 277-91.

Experimental investigation of the sampling hypothesis in the human motor control system. In *Proceedings of the joint automatic control conference*, June, 1970, pp. 391-99.

The effects of initial conditions on the electrically evoked reflexes in normal humans. In *American Electroencephalographic Society meeting*, September, 1970, Washington, D.C.

A model of muscle force and EMG. In *Proceedings of the twenty-third conference on engineering in medicine and biology*, November, 1970, Washington, D.C.

Gain control in human motor system. In *Proceedings of the IEEE symposium on adaptive processes: decision and control*, December, 1970, IEEE no. 70C 58-AC, pp. 861-62.

With B. Berman, L. Stark

Studies in postural control system, I: torque disturbance input. In *IEEE Transactions on Systems Science and Cybernetics*, SSC-6(2), April, 1970, pp. 116-21.

With B. Berman, P. Lohnberg, L. Stark

Studies in postural control system, II: tendon jerk input. *Ibid.*, pp. 122-26.

With G. L. Gottlieb, L. Stark

Studies in postural control system, III: a muscle spindle model. In *IEEE Transactions and Systems Science and Cybernetics*, SSC-6(2), April, 1970, pp. 127-32.

Interactions between the voluntary and postural mechanisms of the human motor system. *Journal of Neurophysiology*, 33: 365-81.

O'NEILL, WILLIAM D., Associate Professor

Articles

Stochastic stability of macro-economic systems. *International Journal of Systems Science*, 1:33-47.

With J. Brodsky

A nonlinear analysis of the mechanics of accommodation. *Vision Research*, 10:375-91.

CHICAGO MEDICAL CENTER

ANATOMY

BARGHUSEN, HERBERT R., Associate Professor

Articles

With J. A. Hopson

Dentary-squamosal joint and the origin of mammals. *Science*, 168:573-75.

CRACRAFT, JOEL, Assistant Professor

Articles

Mandible of Archaeopteryx provides an example of mosaic evolution. *Nature*, 226, 5252:1268.

A new species of *Telmabates* (Phoenicopteriformes) from the lower Eocene of Patagonia. *Condor*, 72, 4:479-80.

KERNIS, MARTEN M., Assistant Professor

Reviews

Methods for teratological studies in experimental animals and man: proceedings of the second international workshop in teratology, by N. Nishimura, J. R. Miller. *American Journal of Obstetrics and Gynecology*, 106, 4:631-33.

KHEDROO, LAWRENCE G., Clinical Associate Professor

Articles

With P. A. Casella

Acute hemorrhagic pancreatitis, an experimental technique for producing the disease in canines. *International Surgery*, 54: 348.

The private non-affiliated metropolitan community hospital: its responsibility as related to post-graduate medical education. *Illinois Medical Journal*, 138:234.

External pin fixation for treatment of mandibular fractures: a reappraisal. *International Oral Surgery*, 28:101.

Amperliche stift-fixierung bei unterkieferfracturen, die iwntessens. *Die monats-zeit-schrift für den panaktisierenden Zahnarzt* (Berlin), 9:29.

LaVELLE, ARTHUR, Professor

Articles

With F. W. LaVelle

Cytodifferentiation in the neuron. In *Developmental neurobiology*, ed. by Himwich, Charles C. Thomas, Springfield, Illinois, pp. 117-64.

With A. L. Griffith, N. Catsimopoulos

Isoelectric focusing of soluble brain proteins and changes associated with development. *Brain Research*, 24:537-40.

MacRAE, EDITH K., Professor

Articles

With G. D. Meetz

Electron microscopy of the ammoniacal silver reaction in the erythropoietic cells of the chick. *Journal of Cell Biology*, 45, 2:235-45.

MAIBENCO, HELEN C., Professor

Articles

With L. Vargas, H. H. R. Friederici

Cortical sponge kidneys induced in rats by alloxan. *Diabetes*, 19, 1:33-44.

RAFFERTY, KEEN A., JR., Professor and Head of Department

Books

Methods in experimental embryology of the

mouse. The Johns Hopkins Press, Baltimore, Maryland, 255 pp.

REYNOLDS, WYNETKA ANN, Associate Professor

Books

With G. W. Parker, R. Reynolds

Hereditry. Educational Methods, Inc., Chicago, 171 pp.

Articles

With R. M. Pitkin

Diabetogenic effects of streptozotocin in primates. *Diabetes*, 19:85-90.

With R. M. Pitkin, D. E. Van Orden

Plasma response and glucose tolerance in pregnant rhesus monkeys. *Endocrinology*, 86:435-37.

With R. M. Pitkin, L. J. Filer

Placental transmission and fetal distribution of cyclamate in early human pregnancy. *American Journal of Obstetrics and Gynecology*, 108:1043-50.

SCHMIDT, ANTHONY J., Professor

Articles

With L. G. Jasch

Tolerance, limb regeneration and collagen fibrogenesis under high oxygen concentrations by the adult newt, *Diemictylus viridescens*. *Journal of Morphology*, 133, 2:167-78.

VAN ALTEN, PIERSON J., Associate Professor

Articles

With A. A. Hirata, A. Conway-Ettinger

Differential susceptibilities of young and adult chickens to passive cutaneous anaphylactic reaction. *Immunology*, 19:257-66.

DOCTORAL DISSERTATIONS

Freitag, Per (M. B. Engel, Adviser), Influences of some neuropharmacological agents on acini of rat salivary glands.

Newsome, Yvonne L. (K. F. Liem, Adviser), Comparative osteology and relationships of neotropical Cichlid fishes.

ASSOCIATED MEDICAL SCIENCES, SCHOOL OF

BYRNE, LYNNE M., Assistant Professor, Medical Dietetics

Articles

With J. E. Byrne

The dietary management of the patient with a fractured jaw. *Journal of Oral Surgery, Oral Medicine, Oral Pathology*, 29, 5:666-75.

FINNEGAN, RITA M., Assistant Professor, Medical Record Administration

Articles

Outpatient medical records: the future. *Medical Record News*, 41, 4:11-15, 71-74.

FIGORELLA, BEVERLY J., Instructor, Medical Technology

Articles

With R. A. Zeineh

Microconcentration by suction ultrafiltration. *American Journal of Medical Technology*, 36, 9:405-11.

FRENCH, RUTH M., Assistant Professor,
Medical Technology

Articles

With E. L. Pruden, J. R. Osmun, H. A. Loux
Ins and outs of research: problem to publication. *American Journal of Medical Technology*, 36, 5:209-26.

HEINEMANN, RUTH I., Coordinator,
Continuing Education

Articles

With W. Perry, J. Whittico, A. Hitchcock,
I. Light

The future of health care. *American Journal of Medical Technology*, 36, 3:115-25.

BIOLOGICAL CHEMISTRY

ARSENIS, CHARALAMPOS, Assistant
Professor

Articles

With O. Touster

Separation and solubilization of the mitochondrial NAD- and NADP-linked xylitol dehydrogenases. In *Methods in enzymology*, vol. 18, ed. by S. P. Colowick and N. O. Kaplan, Academic Press, New York, pp. 62-65.

Cytoplasmic, NADP-linked xylitol dehydrogenase. *Ibid.*, pp. 65-68.

A lysosomal and phosphatase of rat liver with high activity towards α -D-glucuronic acid-1-phosphate. *Ibid.*, pp. 68-70.

With J. S. Gordon, O. Touster

The complete hydrolysis of RNA and DNA by lysosomes. *Journal of Biological Chemistry*, 245:205-11.

With R. Eisenstein, K. E. Kuettner

Electron microscopic studies of cartilage matrix using lysozyme as a vital stain. *Journal of Cell Biology*, 46:626-31.

With R. W. Gray, H. Jeffay

Neutral protease activity associated with the rat liver peroxisomal fraction. *Biochimica et Biophysica Acta*, 222:627-40.

BEZKOROVAINY, ANATOLY, Associate
Professor

Books

Basic protein chemistry. Charles C. Thomas, Springfield, Illinois, 250 pp.

Articles

With R. H. Zschocke

Some immunochemical properties of succinylated human transferrin and related proteins. *Biochimica et Biophysica Acta*, 200:241-46.

With R. H. Zschocke, D. Grohlich

The dissociation of human γ S and bovine colostrum immune globulins into subunits by the reduction-alkylation-succinylation method. *Journal of Immunology*, 104:648-55.

With D. Grohlich, J. Pinter

The carbohydrate moiety of bovine colostrum whey M-1 glycoprotein and its relationship to casein. *Journal of Agricultural Food Chemistry*, 18:624-28.

With D. Grohlich

Modification of carboxyl groups of transferrin. *Biochimica et Biophysica Acta*, 214:37-43.

With N. Kefalides, B. Danduchis

The chemistry of sheep anterior lens cap-

sule. *Archives of Biochemistry and Biophysics*, 138:528-89.

BRUNNGRABER, ERIC G., Assistant
Professor

Articles

Glycoproteins in neural tissue. In *Protein metabolism of the nervous system*, ed. by A. Lajtha, Plenum Press, New York, pp. 383-407.

Mannosidosis and fucosidosis. *Journal of Pediatrics*, 77, 1:166-67.

With C. Haberland

Early infantile neuropilidosis with failure of myelination. A chemical and histopathological study. *Archives of Neurology*, 23:481-88.

With A. Aro, B. D. Brown

Differential determination of glucosamine, galactosamine and mannosamine in glycopeptides from brain tissue glycoproteins. *Clinica Chimica Acta*, 29:333-34.

HANLON, MARY SUE, Associate Professor

Articles

Infrared studies on biopolymers and related models. In *Spectroscopic approaches to biopolymer conformation*, ed. by D. W. Urry, American Medical Association Press, Chicago, pp. 161-208.

With R. J. Ryan, N.-S. Jiang

Some physical and hydrodynamic properties of human follicle stimulating and luteinizing hormones. *Recent Progress in Hormone Research*, 26:105-37.

HENDERSON, THOMAS O., Assistant
Professor

Articles

With T. Glonek, R. L. Hilderbrand,
T. C. Myers

Biological phosphonates: determination by phosphorus-31 nuclear magnetic resonance. *Science*, 169, 3941:192-94.

JEFFAY, HENRY, Professor

Articles

With F. H. Portugal, D. Elwyn

Intracellular amino acid pools in liver subcellular compartments. *Biochimica et Biophysica Acta*, 215:339-47.

With C. O. Brostrom

Protein catabolism in rat liver: an evaluation of the energy requirement. *Journal of Biological Chemistry*, 245:4001.

With R. W. Gray, C. Arsenis

A neutral protease in rat liver peroxisomes. *Biochimica et Biophysica Acta*, 222:627-36.

KACHMAR, JOHN F., Assistant Professor

Articles

Proteins and amino acids. In *Fundamentals of clinical chemistry*, ed. by N. W. Tietz, W. B. Saunders Co., Philadelphia, pp. 177-262.

Hemoglobins, porphyrins and related compounds. *Ibid.*, pp. 263-301.

Enzymes. *Ibid.*, pp. 362-473.

KUETTNER, KLAUS E., Assistant Professor

Articles

With L. W. Soble, H. L. Guenther,
R. L. Croxen, R. Eisenstein

Lysozyme in epiphyseal cartilage. I: the nature of the morphologic response of cartilage in culture to exogenous lysozyme. *Calcified Tissue Research*, 5:56-63.

With R. Eisenstein

An ultrastructural organization of cartilage matrix revealed through the use of lysozyme. *Ibid.* (Supplement), 4, 137-38.

With R. Eisenstein, L. W. Soble

Lysozyme in epiphyseal cartilage, III: effects of protamine, toluidine blue, and histamine on mouse embryonic cartilage in organ culture. *American Journal of Pathology*, 60:43-56.

With L. W. Soble, R. D. Ray, R. L. Croxen, M. Passovoy, R. Eisenstein

Lysozyme in epiphyseal cartilage, II: the effect of egg white lysozyme on mouse embryonic femurs in organ culture. *Journal of Cell Biology*, 44:329-39.

With R. Eisenstein, C. Arsenis

Electron microscopic studies on cartilage matrix using lysozyme as a vital stain. *Ibid.*, 46:626-31.

MATTENHEIMER, HERMAN G. W.,

Professor

Books

Micromethods for the clinical and biochemical laboratory. Ann Arbor Science Publishers, Ann Arbor, Michigan, 232 pp.

Articles

Enzyme in urine. In *Methoden der enzymatischen analyse* (second ed.), ed. by H. U. Bergmeyer, Verlag Chemie, Weinheim, Bergstrasse, Germany, pp. 64-74.

With V. E. Pollak, R. C. Muehrcke

Quantitative enzyme patterns in the nephron of the healthy human kidney. *Nephron*, 7:144-54.

With R. Friedel

Release of metabolic enzymes from platelets during blood clotting of man, dog, rabbit and rat. *Clinica Chimica Acta*, 30:37-46.

Über die herkunft der laktatdehydrogenase und anderer zellenzyme in normalen blutserum. *Zeitschrift Analytical Chemistry*, 252:204-9.

With J. Möhr, A. W. Holmes, F. Deinhardt, F. W. Schmidt

Enzymologic evaluation of experimental marmoset hepatitis. *Polskie Archiwum Medycyny Wewnetrznej (Warsaw)*, 44:549-54.

MOLNAR, JANOS J., Associate Professor**Articles****With M. Tetas, H. Chao**

Incorporation of carbohydrates into endogenous acceptors of liver microsomal fractions. *Archives of Biochemistry and Biophysics*, 138, 1:135-46.

MYERS, TERRELL C., Professor**Articles****With T. Glonek, P. Z. Han, J. Van Wazer**

Evidence for a small ultraphosphate molecule in solution. *Journal of the American Chemical Society*, 92, 24:7214-16.

NISONOFF, ALFRED, Professor and Head of Department**Articles****With J. E. Hopper, A. B. MacDonald**

Quantitative investigations of idiotypic antibodies, II: nonprecipitating antibodies. *Journal of Experimental Medicine*, 131, 1:41-56.

With L. S. Rodkey, T. K. Choi

Isolation of molecules of restricted allotype from antistreptococcal polysaccharide antibody. *Journal of Immunology*, 104, 63-71.

With A. B. MacDonald, J. E. Hopper, H. Daugharty

Symposium: quantitative studies of idiotypic antibodies. *Federation Proceedings*, 29, 1: 72-77.

With A. B. MacDonald

Quantitative investigations of idiotypic antibodies, III: persistence and variations of idiotypic specificities during the course of immunization. *Journal of Experimental Medicine*, 131:583-601.

With E. Margoliash, M. Reichlin

Immunological activity of cytochrome c, I: precipitating antibodies to monomeric vertebrate cytochromes c. *Journal of Biological Chemistry*, 245:931-39.

Immunological activity of cytochrome c, II: localization of a major antigenic determinant of human cytochrome c. *Ibid.*, pp. 940-46.

Immunological activity of cytochrome c, III: enhancement of antibody detection and immune response initiation by cytochrome c polymers. *Ibid.*, pp. 947-54.

With A. C. Wang, S. K. Wilson, J. E. Hopper, H. H. Fudenberg

Evidence for control of synthesis of the variable regions of the heavy chains of immunoglobulins G and M by the same gene. *Proceedings of the National Academy of Sciences*, 66:337-43.

With S. B. Spring, S. Dray

Independence of allotypic determinants and antibody specificity. *Journal of Immunology*, 105:653-60.

With M. W. Fanger, D. A. Hart, J. V. Wells

Enhancement by reducing agents of the transformation of human and rabbit peripheral lymphocytes. *Ibid.*, pp. 1043-45.

With B. W. Brient

Quantitative investigations of idiotypic antibodies, IV: inhibition by specific haptens of the reaction of anti-hapten antibody with its anti-idiotypic antibody. *Journal of Experimental Medicine*, 132:951-62.

With M. W. Fanger, D. A. Hart, J. V. Wells

Requirement for cross-linkage in the stimulation of transformation of rabbit peripheral lymphocytes by antiglobulin reagents. *Journal of Immunology*, 105:1484-92.

With J. E. Hopper, A. B. MacDonald, H. Daugharty

Symposium: studies of idiotypic antibodies in rabbit anti-p-azobenzoate antibodies. *Protides of the Biological Fluids*, 17:155-59.

RESSLER, NEWTON, Associate Professor**Articles****With S. Lee**

Tissue-characteristic forms of glyceraldehyde 3-phosphate dehydrogenase. *Biochemistry*, 119:85-88.

SIMON, GERALD R., Associate Professor**Articles****With G. Rouser**

Use of DEAE and TEAE cellulose chromatography in lipid research. In *Methods in enzymology*, vol. 14, ed. by J. M. Lowenstein, Academic Press, New York, pp. 272-317.

Species variation in phospholipid class distribution of organs, II: heart and skeletal muscle. *Lipids*, pp. 607-14.

With G. Rouser, G. Kritshevsky

Species variation in phospholipid class dis-

- tribution of organs, I: kidney, liver, and spleen. *Ibid.*, 4:599-606.
- With R. R. Wade, J. E. DeLarco, M. L. Baker
Wallerian degeneration: a sequential process. *Journal of Neurochemistry*, 16:1435-39.
- With C. E. Eybal
Fatty acid composition of the neutral lipids and individual phospholipids of muscle in cold stressed arctic mice. *Lipids*, 5:590-96.
- With H. Hof
Phospholipid content of human and guinea pig muscle: post mortem changes and variation with muscle composition. *Ibid.*, pp. 485-87.
- SKY-PECK, HOWARD H., Professor
- Articles
Effect of chemotherapy on incorporation of H^3 -thymidine into DNA of human tumors *in vitro*. In *Prediction of response to cancer therapy*, vol. 34, ed. by T. C. Hall, National Cancer Institute, Bethesda, Maryland, pp. 144-51.
- With M. E. Rafelson, Jr.
Computerization of a clinical chemistry laboratory. *Rush-Presbyterian-St. Luke's Hospital Medical Bulletin*, 9, 4:142-53.
- SPRING, SUSAN B., Instructor
- Articles
With A. Nisonoff, S. Dray
Independence of allotypic determinants and antibody specificity. *Journal of Immunology*, 105:653-60.
- SWIATEK, KENNETH R., Assistant Professor
- Articles
With K. L. Chao, H. L. Chao, M. Cornblath, T. Tildon
Enzymatic adaptations in newborn pig liver. *Biochimica et Biophysica Acta*, 222:145-54.
- TAO, MARIANO, Assistant Professor
- Articles
With M. Schweiger
Stimulation of galactokinase synthesis in *Escherichia coli* by adenosine 3',5'-cyclic monophosphate. *Journal of Bacteriology*, 102:138-41.
- With M. L. Salas, F. Lipmann
Mechanism of activation by adenosine 3',5'-cyclic monophosphate of a protein phosphokinase from rabbit reticulocytes. *Proceedings of the National Academy of Sciences*, 67:408-14.
- With A. Huberman
Some properties of *Escherichia coli* adenyl cyclase. *Archives of Biochemistry and Biophysics*, 141:236-40.
- With J. W. Bodley, L. Lin, M. L. Salas
Fusidic acid stabilization of a eucaryotic ribosome-translocation factor GDP complex. *Federation European Biochemical Society Letter*, 11:153.
- WEISSMANN, BERNARD, Professor
- Articles
Preparation of 2-acetamido-2-deoxy- α -glycopyranosides, II. *Journal of Organic Chemistry*, 35:1690.
- With P. Kohn
Buoyant density separations in preparative organic chemistry. *Chemistry and Industry (London)*, 1970, 11:365.
- WITTING, LLOYD A., Assistant Professor
- Articles
The interrelationship of polyunsaturated fatty acids and anti-oxidants *in vivo*. In *Progress in the chemistry of fats and other lipids; polyunsaturated acids*, ed. by R. T. Holman, Pergamon Press, Oxford, England, pp. 519-53.
- DOCTORAL DISSERTATIONS
- Albertson, Daniel F. (E. Titchener, Adviser), Comparison of rat liver, testicular, and adipose tissue esterases.
- Marshall, Wayne E. (E. C. Schuytema, Adviser), The development of a virulent mutant of bacteriophage λ (Δ vir) in *Escherichia coli* K12 RC⁺ and RC⁺ bacteria.
- Nagel, Glenn M. (M. S. Hanlon, Adviser), The association of adenine and uracil by hydrogen bonding.
- Pinter, Joyce K. (J. A. Hayashi, Adviser), Extracellular glycosidases of streptococci.
- Sheys, Gerald H. (C. Doughty, Adviser), Aldehyde reductase from *Rhodotorula*.
- Silverman, Bert (H. H. Sky-Peck, Adviser), Binding of estradiol to macromolecules in hormone responsive tissues.
- Taylor, Marilyn J. L. (T. Myers, Adviser), Study on nucleotide analogs.
- Wang, Ching-Te (B. Weissmann, Adviser), Acetylgalactosaminidase from beef liver.
- CRANIOFACIAL ANOMALIES, CENTER FOR
- BATTLE, CONSTANCE U., Instructor
- Articles
Acute post-bulbar duodenal ulcer in a 6-year-old girl: report of a case and review of literature. *Pediatric Digest*, 1970, January: 32-41.
- Fetal electroencephalography and the fetal brain. *Clinical Pediatrics*, 9, 3:148-51.
- Sleep and sleep disturbances in young children. *Ibid.*, 11:675-82.
- Another fetal assessment test: the fetal electroencephalogram. *Developmental Medicine and Child Neurology*, 12:373-75.
- With L. Cravitz
Strongyloides stercoralis infection acquired during infancy in upstate New York. *The Woman Physician*, 25, 5:298-302.
- With G. Miller
Iron poisoning in children: the obstetrician's responsibility. *American Journal of Obstetrics and Gynecology*, 108, 3:485-86.
- PASHAYAN, HERMINE M. E., Assistant Professor
- Articles
With F. C. Fraser
Relation of face shape to susceptibility to congenital cleft lip: a preliminary report. *Journal of Medical Genetics*, 7, 2:112-17.
- With F. C. Fraser, M. E. Kadish
Cranio-carpo-tarsal dysplasia: report of a case in father and son. *Journal of the American Medical Association*, 211, 8:1374-76.
- With E. Levy, F. C. Fraser
Can the deLange syndrome be diagnosed at birth. *Pediatrics*, 46, 6:940-41.
- With E. Levy, F. C. Fraser, L. Pinsky
XX and XY Turner phenotypes in a family. *American Journal of Diseases of Children*, 120:36-43.

With L. Pinsky, F. C. Fraser

Case report: hemifacial microsomia oculo-auriculo-vertebral dysplasia. A patient with overlapping features. *Journal of Medical Genetics*, 7, 2:185-88.

PRUZANSKY, SAMUEL, Professor and Director of the Center for Craniofacial Anomalies

Articles

With M. Markovic, D. Buzdygan

Twins with clefts. *Acta Genetica Medica Gemellol*, 19:224-29.

With C. V. Shah, W. S. Harris

Cardiac malformations with facial clefts: with observations on the Pierre Robin syndrome. *American Journal Diseases of Children*, 119:238-44.

With L. M. Solomon, D. Fretzin

Pilosebaceous abnormalities in Apert's syndromes. *Archives of Dermatology*, 102:381-85.

Pilosebaceous dysplasia in the oral-facial-digital syndrome. *Ibid.*, pp. 598-602.

DENTAL ADMINISTRATION

MASSLER, MAURY, Associate Dean, Postgraduate and Teacher Education and Professor in Pedodontics
See Pedodontics.

YALE, SEYMOUR H., Dean and Professor of Dental Radiology

Articles

Radiology. In *Current therapy in dentistry*, vol. 4, ed. by Goldman, Gilmore, Royer, and Olsen, C. V. Mosby Co., St. Louis, pp. 44-47.

DENTAL HISTOLOGY

EISENMANN, DALE R., Assistant Professor

Articles

With W. F. Malone, J. Kusek

Electron microscopic evaluation of electro-surgery. *Oral Surgery, Oral Medicine and Oral Pathology*, 29, 5:660-65.

ENGEL, MILTON B., Professor

Articles

With H. R. Catchpole

Thermal effects on birefringence of tendon with aging. *Proceedings of the Society for Experimental Biology and Medicine*, 133: 260-63.

With P. Freitag

Autonomic innervation in rabbit salivary glands. *Anatomical Record*, 167, 1:87-106.

GILLETTE, ROY, Professor

Articles

With J. A. Yaeger, A. Zaki

Fine structure of the epithelial dental organ in the frog during early odontogenesis. *Anatomical Record*, 168, 1:79-92.

GRIMM, ARTHUR F., Professor

Articles

With L. de la Torre, M. LaPorta, Jr.

Ventricular nuclei-DNA relationships with myocardial growth and hypertrophy in the rat. *Circulation Research*, 26.

With K. V. Katele, R. Kubota, W. V. Whitehorn

Relation of sarcomere length and muscle length in resting myocardium. *American Journal of Physiology*, 218:1412-16.

KATELE, KAZIMIERAS V., Chief of Tissue Processing Laboratory

Articles

With A. F. Grimm, R. Kubota, W. V. Whitehorn

Relation of sarcomere length and muscle length in resting myocardium. *American Journal of Physiology*, 218:1412-16.

SABET, TAWFIK Y., Associate Professor

Articles
With H. Friedman

Effects of RES "blockade" on antibody formation, III: proliferative capacity of antigen-reactive stem cells in carbon-treated mice after transfer to irradiated recipients. *Immunology*, 18, 6:883-95.

Effects of RES "blockade" on antibody formation, IV: inhibition of plaque-forming cells in spleen cultures treated with carbon particles. *Ibid.*, 19, 5:843-53.

ZAKI, ABD EL-MONEIM E., Assistant Professor

Articles

With J. A. Yaeger, R. Gillette

Fine structure of the epithelial dental organ in the frog during early odontogenesis. *Anatomical Record*, 168, 1:79-92.

DERMATOLOGY

BECKER, S. WILLIAM, JR., Associate Professor

Articles

Hypermelanosis of face and neck. In *Current dermatologic management*, by S. Maddin and T. H. Brown, C. V. Mosby Co., St. Louis, p. 137.

The large melanotic macule. *Archives of Dermatology*, 102:353.

ESTERLY, NANCY B., Assistant Professor

Articles

With M. Markowitz

The treatment of pyoderma in children. *Journal of American Medical Association*, 212: 1667-70.

With L. M. Solomon

Neonatal dermatology: the newborn skin. *Journal of Pediatrics*, 77:888-94.

Neonatal dermatology: blistering and scaling dermatoses. *Ibid.*, p. 1075.

FRETZIN, DAVID F., Clinical Assistant Professor

Articles

With W. Jao, M. Christ, L. Prins

Blue nevus of the prostate gland. *Archives of Pathology*, 91:187-91.

With C. Shapiro, S. Norris

Papular mucinosis. *Journal of American Medical Association*, 214, 11:2052-54.

With L. Solomon, S. Pruzansky

Pilosebaceous abnormalities in Apert's syndrome. *Archives of Dermatology*, 102:381-85.

Pilosebaceous dysplasia in the oral-facial-digital syndrome. *Ibid.*, pp. 598-602.

KLAPMAN, MARVIN H., Clinical Instructor

Articles

With N. P. Superfon, L. M. Solomon
North American blastomycosis. *Archives of Dermatology*, 101:653-58.

POTTER, BRIAN, Associate Professor

Articles

With E. A. Taylor
Isoniazid-responsive purulent ulcerations. *Archives Belges de Dermatologie et de Syphiligraphie* 25, 4:407-15. 1969.

RAJKUMAR, TARAKAD, Assistant

Professor

Articles

With J. Lisowski, D. P. Wolf, E. A. Stein
Evidence for tightly bound zinc in leucine aminopeptidase from pig kidney. *Acta Biochimica Polonica*, 17, 4:311-24.

SOLOMON, LAWRENCE M., Associate

Professor

Articles

Epidermal nevi. In *Current dermatologic management*, by S. Maddin, and T. H. Brown, C. V. Mosby Co., St. Louis, pp. 356-60.

With M. Klapman, N. Superfon

North American blastomycosis. *Archives of Dermatology*, 101:653-58.

With H. Aran

Linear telangiectasia. *Acta Dermato-Venerologica*, 50:302-8.

With N. B. Esterly

Neonatal dermatology: the newborn skin. *Journal of Pediatrics*, 77:888.

Neonatal dermatology: scaling and blistering diseases. *Ibid.*, p. 1075.

With D. Fretzin, S. Pruzansky

Pilosebaceous abnormalities in Apert's syndrome. *Archives of Dermatology*, 102:381-85.

Pilosebaceous dysplasia in the oral-facial digital syndrome. *Ibid.*, p. 598.

TAVS, LOUISE E., Clinical Associate

Professor

Articles

Neurosyphilis. In *Current therapy*, ed. by Howard F. Conn, Saunders, Philadelphia, Pennsylvania, pp. 499-500.

EDUCATIONAL DEVELOPMENT, CENTER FOR

HARLESS, WILLIAM G., Senior Associate

Articles

Continuing education of professionals. In *The computer utility: implications for higher education*, ed. by Duggan, McCartan, and Irwin, D. C. Heath, Lexington, Massachusetts, pp. 119-22.

With N. C. Lucas, R. E. Theis

An experiment in learning behavior using computer assisted instruction. *Behavioral Science*, 15, 5:447-51.

MILLER, GEORGE E., Professor

Articles

A perspective on research in medical education. *Journal of Medical Education*, 45: 694-99.

POCHYLY, DONALD F., Assistant Professor

Articles

Skills learning. *Journal of Neurosurgery*, 34, 2:269.

ENDODONTICS

CLEM, WILLIAM H., Assistant Professor

Articles

Post-treatment endodontic pain. *Journal American Dental Association*, 81:1156.

EVANSON, LEONARD, Assistant Professor

Articles

With F. S. Weine, H. Gerstein
Pre-curved files and incremental instrumentation for root canal enlargement. *Journal Canadian Dental Association*, 36, 155-57.

VAN CURA, JOSEPH E., Assistant Professor

Articles

With N. A. Remeikis
Corticosteroid-antibiotic combination in the treatment of acute secondary apical peri-odontitis. *Illinois Dental Journal*, 39, 5: 307-13.

MEDICAL RADIOLOGY

CAPEK, VLASTIMIL, Instructor

Articles

The roentgen features of Crohn's disease of the colon. In *Modern gastroenterology*, F. K. Schattauer, Stuttgart, Germany, pp. 917-18.

With Z. Maratka

Roentgenology of segmental colitis. In *Separatum*, S. Karger, Basel, Switzerland, pp. 106-16.

DUDLEY, HORACE C., Professor

Articles

Subquantum energy sources. *Bulletin of American Physical Society*, 15, 1:93.
More about ether drift. *Ibid.*, 12:1641.

HENDRICKSON, FRANK R., Professor

Articles

Programmed preoperative radiation therapy for carcinoma. In *Otolaryngologic clinics of North America*, ed. by W. B. Saunders, Philadelphia, pp. 589-98.

The results of low dose preoperative radiotherapy for advanced carcinoma of the larynx. In *Front: radiation therapy oncology*, Karger, Basel, Switzerland, pp. 123-29.

With W. A. Hindo, F. A. De Trana, M. S. Lee

Large dose increment irradiation in treatment of cerebral metastases. *Cancer*, 26, 1:138-41.

VALVASSORI, GALDINO E., Professor

Articles

With R. A. Buckingham
Microradiography and macrosectioning of the temporal bone. *Annals of Otolaryngology and Laryngology*, 79, 4:734-42.

Tomographic and surgical pathology of cholesteatoma. *Archives of Otolaryngology*, 91, 5:464-69.

With J. C. Goldstein

Radiographic evaiuation of the larynx. In *Otolaryngologic clinics of North America*, ed. by W. B. Saunders, Philadelphia, pp. 465-81.

MEDICAL-SURGICAL NURSING

SMYTH, KATHLEEN a/k/a SISTER MARY PAUL, Assistant Professor

Articles

With Sister N. Elder

An integrated curriculum. *Nursing Outlook*, 18, 63-65.

Sequence and consequence of renewal. *Nursing Forum*, 9, 2:151-61.

WILLIAMS, BARBARA P., Assistant Professor

Articles

With J. Chodil

The concept of sensory deprivation. *Nursing Clinics of North America*, 5, 3:453-65.

Men aflame. *Chart*, 68, 1:10-14.

Men aflame. *Sigma Theta Tau News Letter*, 2.

MEDICINE

ABRAIRA, CARLOS, Assistant Professor

Articles

With I. Goldfine, D. Gruenewald, M. Goldstein

Plasma insulin levels during imaginary food ingestion under hypnosis. *Proceedings of the Society for Experimental Biology and Medicine*, 133, 1:274-76.

ABTAHI, HASSAN, Associate Professor

Articles

With J. Maurice

Incidence of postoperative bleeding in hemorrhoidectomy: evaluation of the modified buie technique. *Clinical Medicine*, 77, 3:34-35.

ADAD, WAHBI, Instructor

Articles

With R. Pietras, H. Bliss

Left ventricular outflow-tract obstruction with an ostium primum defect. *Archives of Internal Medicine*, 125:701-4.

ALVAREZ, WALTER C., Professor Emeritus

Articles

The art of writing papers. In *Adventures in medical writing*, ed. by Moser and Di Cyan, Charles C. Thomas, Springfield, Illinois, pp. 44-48.

ANDERSON, TRUMAN O., Professor and Dean, School of Basic Medical Sciences

Articles

With J. Robinson, H. Griebler

The serologic abnormalities of idiopathic myocardial diseases. *Cardiovascular Research*, 4:14-22.

With R. Zschocke, G. Bach

Studies on IgA, II: isolation of IgA from small volumes of human serum by immunoadsorption. *Journal of Immunology*, 105, 1:147-53.

BACH, GERHARD L., Lecturer

Articles

Rheumafaktor und erkrankungen der leber. *Zeitschrift für Immunitätsforschung, Allergie und klinische Immunologie*, 139:253-64.

Ein fall von subakuter hepatitis mit übergang in zirrrose, gamma-G-paraproteinämie und positiver rheumafaktorerologie. *Weinrer Medizinisch Wochenschrift*, 120, 42/43:726-29.

With R. Loddenkemper, R. Carton

Diffusionsstörungen bei primär-chronischer polyarthritus und lupus erythematodes disseminatus. *Beitrage zur Klinik der Tuberkulose und spezifischen Tuberkulose-Forschung*, 141:230-41.

With T. Anderson, R. Zschocke

Studies on IgA, II: isolation of IgA from small volumes of human serum by immunoadsorption. *Journal of Immunology*, 105, 1:147-53.

With H. Griebler, T. Anderson, R. Zschocke

Beitrag zum problem der standardisierung des latex-fixationstests zum nachweis des rheumafaktors. *Acta Biologicae Medicae Germanicae*, 26:185-91.

BACHMANN, FEDOR W., Associate Professor

Articles

Basic studies on atherogenesis and thrombogenesis. In *Atherogenesis*, ed. by Shimamoto and Numana, Excerpta Medica Foundation, Tokyo, pp. 87-96.

Disseminated intravascular coagulation. *Disease-a-Month*, December, 1969.

With D. Cavanagh, P. Rao, D. Sutton, B. Bhagat

The pathophysiology of endotoxin shock in the primate. *American Journal of Obstetrics and Gynecology*, 108:705-22.

BANSAL, VINOD K., Assistant

Articles

With N. Bank, H. Aynedjian, D. Goldman

Effect of acute hypertension on sodium transport by the distal nephron. *American Journal of Physiology*, 219, 2:275-80.

BECKER, FRANK O., Assistant Professor

Articles

With K. Tausk

Radiologically evident functioning mediastinal adenoma. *Chest*, 58, 1:79-82.

With F. Davis, J. Michael, E. Sorenson

Acute improvement by chemical means of visual and oculomotor signs in multiple sclerosis. *Presbyterian-St. Luke's Hospital Bulletin*, 9, 2:31-36.

With University Diabetes Program Group

MGDP. A study of effects of treatment on complications in patients with adult onset diabetes mellitus. I: Design, methods and baseline results. II: Mortality results. *Diabetes*, 19, supplement 2:747-830.

BERG, MAX, Clinical Associate Professor

Articles

Influence of age and ABO blood groups in the precipitation of bleeding peptic ulcers. *Gut*, 10, 2:1029-31.

BERLINGER, FREDERICK G., Assistant

Professor**Articles**

With others

Purification of human renin. *Journal of Laboratory and Clinical Medicine*, 76, 4:689-700.

A rational approach to snake bite in Viet Nam. *USARV Medical Bulletin*, 40, 21:1-10.

BEST, WILLIAM R., Professor

Articles

On the logarithmic transformation of intest-

tinal bacterial counts. *American Journal of Clinical Nutrition*, 23, 12:1608-9.

With C. Mason, H. Shepherd

Validation of procedure for setting normal limits on basis of total laboratory experience. *Clinica Chimica Acta*, 28:127-32.

Reviews

Concepts and models of biomathematics. Simulation techniques and methods, by F. Heinmets. *Archives of Internal Medicine*, 126, 3:535.

BRONSKY, DAVID, Associate Professor

Articles

Hyperparathyroidism and Albright's osteodystrophy: case report and a proposed new classification of parathyroid disease. *Journal of Clinical Endocrinology and Metabolism*, 31, 3:271-76.

BOGDONOFF, MORTON D., Professor,
Chairman of Department

Articles

Opportunity and promise: the magic of a new job. *Archives of Internal Medicine*, 125:171.

On the political involvement of the medical scientist. *Ibid.*, p. 548.

Springtime for medicine. *Ibid.*, p. 725.

On the need for national leadership. *Ibid.*, p. 892.

The paradox of commencements and continuity. *Ibid.*, p. 1078.

Translating mental health goals into the care of all clinic problems. *Tenth IBM medical symposium*, June 29-July 1, 1970.

Some notes on the internship. *Archives of Internal Medicine*, 126:164.

Graduate training in internal medicine. *Ibid.*, p. 330.

Responsibility for the revitalization of urban medicine. *Ibid.*, p. 524.

A change in the training model for the practicing internist. *Ibid.*, p. 694.

On a contradiction between intent and enactment. *Ibid.*, p. 1070.

With K. Bach, S. Oelfke, M. Brehm,
J. Nowlin

Physiological and situational factors in psychopharmacological experiments. *Psychophysiology*, 6:749.

With M. Weisberg, M. Gross, J. Barton

Hyperparathyroidism and acute postpartum pancreatitis with neonatal tetany in the child. *American Journal of Medical Science*, 210, 3:160-64.

With J. Dumlaio, M. Brooks, M. Krauss,
S. Waldstein

Suppression of thyroidal iodine uptake after indocyanine green. *Journal of Clinical Endocrinology and Metabolism*, 30, 4:531-32.

CERCHIO, GERARD M., Assistant Professor

Articles

With G. Moss, D. Siegel, P. Popovich,
E. Butler

Serum insulin response in hemorrhagic shock in baboons. *Surgery*, 68:34-39.

CHUQUIMIA, RUBEN, Instructor

Articles

With K. Rosen, H. Loeb, M. Sinio,
S. Rahimtoola, R. Gunnar

Site of heart block in acute myocardial infarction. *Circulation*, 42, 5:925-33.

COSTEA, NICOLAS V., Professor

Articles

With L. Zelkowitz

Immunoglobulin: catabolism. In *Current diagnosis*, ed. by Conn, W. B. Saunders, New York.

With V. Yakulis, P. Heller

Patterns of cold agglutinin production. *Transactions of the Association of American Physicians*, 82:255.

Cold reacting antibody in NZB/B1 mice. *Blood*, 35:583-90.

DANON, JOSEPH, Research Associate

Articles

With J. Sharp and others

Total respiratory compliance in infants and children. *Journal of Applied Physiology*, 29, 6:775-79.

DIZADJI, HADI, Clinical Associate Professor

Articles

With H. Moguelevsky, M. O'Reilly, A. Shaffer
Atrial septal defect associated with skeletal anomalies (holt-oram syndrome). *Chest*, 57, 3:230-33.

With C. Tan, D. Cooney, G. O'Brien

A useful roentgen sign in dissecting aneurysm of the thoracic aorta. *Diseases of the Chest*, 56, 5:456-58.

DUMLAO, JULIET S., Instructor

Articles

With M. Brooks, T. Krauss, D. Bronsky,
S. Waldstein

Thyroidal suppression with indocyanine green. *Journal of Clinical Endocrinology and Metabolism*, 30, 4:531-32.

EVANICH, MYRON J., Research Assistant
Professor

Articles

With L. Partridge

Generation of a sinusoidal waveform from a sawtooth waveform. *Review of Scientific Instruments*, 39:1573-75.

FRANZBLAU, SANFORD A., Clinical
Associate Professor

Reviews

Hyperbaric oxygen and its clinical value: with special emphasis on biochemical and cardiovascular aspects, by N. G. Meijne. *Journal of the American Medical Association*, 214, 13:2341-42.

GANTT, CLARENCE L., Associate Professor

Articles

With O. Jonasson, E. Lichter, W. Hamby,
R. Smith, L. Nyhus

Donor selection for renal transplantation based on genotypic analysis of HL-A in a family. *Archives of Surgery*, 101:219-25.

GORBACH, SHERWOOD L., Associate
Professor

Articles

Sulfonamides and tropical sprue. *Gastroenterology*, 58:268-70.

Acute diarrhea: a "toxin" disease. *New England Journal of Medicine*, 283:44-45.

With R. Levitan

Intestinal flora in health and in gastrointestinal diseases. In *Progress in gastroenterology*, ed. by Glass, Grune and Stratton, New York, pp. 252-75.

- With G. Neale, R. Levitan, G. Heyner
Alteration in human intestinal microflora during experimental diarrhoea. *Gut*, 11:1-6.
- With J. Banwell, B. Jacobs, B. Chatterjee, K. Brigham, and others
Intestinal microflora in Asiatic cholera, I: "rice-water" stool. *Journal of Infectious Diseases*, 121:32-37.
- Intestinal microflora in Asiatic cholera, II: the small bowel. *Ibid.*, pp. 38-45.
- With D. Mahalanabis, J. Brayton, B. Jacobs, B. Chatterjee, K. Neogy
Intestinal microflora in Asiatic cholera, III: studies in pediatric cholera. *Ibid.*, pp. 46-47.
- With J. Banwell, N. Pierce, B. Chatterjee, R. Mitra
Intestinal microflora in a chronic carrier of *vibrio cholerae*. *Ibid.*, pp. 383-90.
- With J. Banwell and others
Intestinal fluid and electrolyte transport in human cholera. *Journal of Clinical Investigation*, 49:183-95.
- With B. Chatterjee, K. Neogy
Study of *vibrio parahaemolyticus* from cases of diarrhoea in Calcutta. *Indian Journal of Medical Research*, 58:234-38.
- With N. Pierce, J. Banwell, R. Mitra, A. Mondal
Convalescent carriers of *vibrio cholerae*. *Annals of Internal Medicine*, 72:357-64.
- With J. Banwell, B. Jacobs, B. Chatterjee, R. Mitra, and others
Tropical sprue and malnutrition in West Bengal, I: intestinal microflora and absorption. *American Journal of Clinical Nutrition*, 23:1545-58.
- With J. Banwell, R. Mitra, J. Cassels, G. Mazumder, and others
Tropical sprue and malnutrition in West Bengal, II: fluid and electrolyte transport in the small intestine. *Ibid.*, pp. 1559-68.
- With P. Nair, J. Banwell, C. Lillis, A. Alcaraz
Tropical sprue and malnutrition in West Bengal, III: biochemical characteristics of bile salts in the small intestine. *Ibid.*, pp. 1569-78.
- With J. Cassels, J. Banwell, R. Mitra
Tropical sprue and malnutrition in West Bengal, IV: bile salt deconjugation in the small intestine. *Ibid.*, pp. 1579-81.
- With M. Floch, T. Luckey
Symposium: the intestinal microflora. *Ibid.*, pp. 1425-1609.
- With B. Chatterjee, K. Neogy
Vibrio parahaemolyticus and diarrhea associated with non-cholera vibrios. *Bulletin WHO*, 42:460-63.
- Reviews**
Travellers' diarrhea, by B. Rowe and others. *Gastroenterology*, 59, 4:637-38.
Experimental diarrhea, by R. Maenza, and others. *Ibid.*, 6:944-45.
- GREGORY, STEPHANIE A., Instructor
Articles
With W. Knospe, W. Fried, R. Sasseti, F. Trobaugh
Effect of a noncellular spleen-derived factor on recovery of hematopoietic stem cells from irradiation. *Journal of Laboratory and Clinical Medicine*, 76, 4:584-921.
- With W. Fried, W. Knospe, F. Trobaugh
Stimulus to proliferation of hematopoietic

stem cells following injection of cyclophosphamide. *Experimental Hematology*, 20:11-15.

GUNNAR, ROLF M., Professor

Articles

- With H. Loeb, R. Pietras, J. Tobin, Jr.
The hemodynamic effects of myocardial infarction and results of therapy. *Medical Clinics of North America*, 54, 1:235-46.
- With R. Ramsey, J. Tobin, Jr.
Endocarditis in the drug addict. *American Journal of Cardiology*, 25:608-18.
- With C. Blain, T. Anderson, R. Pietras
Immediate hemodynamic effects of gram negative versus gram positive bacteremia in man. *Archives of Internal Medicine*, 126:260-65.
- With K. Rosen, S. Rahimtoola
Pseudo A-V block secondary to non-propagated His bundle depolarizations—documented by His bundle electrocardiography. *Circulation*, 42:367-73.
- With K. Rosen, H. Loeb, R. Chuquimia, M. Sinno, S. Rahimtoola
Site of heart block in acute myocardial infarction. *Ibid.*, pp. 925-32.

HAHN, JEROME J., Associate Professor

Articles

- With D. Bentley, M. Lepper
Transmission of chloramphenicol-resistant staphylococcus epidermidis: epidemiologic and laboratory studies. *Journal of Infectious Diseases*, 122, 5:365-75.

HAMBY, WILLIAM M., Assistant Professor

Articles

- With O. Jonasson, E. Lichter, R. Smith, C. Gantt, L. Nyhus
Donor selection for renal transplantation by genotypic analysis of HL-A in a family. *Archives of Surgery*, 101:219-25.

HARDISON, WILLIAM G. M., Associate Professor

Articles

- With J. Apter
Parameter estimation in phospholipid regulation of bile salt stimulated cholesterol excretion in bile. *Proceedings of the National Electronics Conference*, 26:2-6.

HELLER, PAUL, Professor

Articles

- The blood and blood-forming organs—abstracts and editorial comments on 94 papers of the hematologic literature 1969/70. In *Yearbook of medicine*, 1970, ed. by Rogers, et al., Yearbook Medical Publishers, Chicago, pp. 225-356.
- With N. Costea, V. Yakulis
Cold reacting antibody in NZB/B1 mice. *Blood*, 35:583-90.
- With W. Fried, C. Johnson
Observations on regulation of erythropoiesis during prolonged periods of hypoxia. *Blood*, 36:607-16.

Reviews

- Biochemical methods in red cell genetics, by J. Yunis. *Annals of Internal Medicine*, 72:965-66.
- Autoimmunization and the autoimmune hemolytic anemias, by B. Pirofsky. *Annals of Internal Medicine*, 72:152.

HOFFMAN, WILLIAM S., Professor Emeritus
Books

The biochemistry of clinical medicine (fourth ed.). Yearbook Medical Publishers, Chicago, 856 pp.

HUDSON, ESEL K., Associate Professor,
Director of Planning, Community Health
Program

Articles

With A. Rezler, G. Flanagan

Medical clerkship in five different settings. *British Journal of Medical Education*, 4, 2:130-37.

With T. Aldor

Pancreatic insufficiency and neutropenia with associated immunoglobulin deficit. *Archives of Internal Medicine*, 125:314-16.

JACKSON, GEORGE G., Professor

Articles

With R. Jao, E. Wheelock

Production of interferon in volunteers infected with Asian influenza. *Journal of Infectious Diseases*, 121:419-26.

With L. Riff, V. Olexy

Therapy with combinations of penicillin analogues in urinary tract infections. In *Antimicrobial agents and chemotherapy—1969*. American Society for Microbiology, Washington, D.C., pp. 405-9.

With R. Peckinpaugh, F. Ashin, W. Pierce,
E. Edwards, D. Johnson

Field studies with amantadine: acceptability and protection. *Annals of The New York Academy of Science*, 173:62-73.

JOHNSTON, LOUIS C., Clinical Associate
Professor

Articles

With C. Gantt, D. Santos

Treatment of high blood pressure with furosemide. *Journal of Clinical Pharmacology*, 10: 121.

KAPLAN, ERVIN, Professor

Articles

Diagnosis of pancreatic disease by dual channel scanning. In *Surgery of the biliary tract, pancreas and spleen*, by Puestow, Yearbook Medical Publishers, Chicago, pp. 259-63.

With M. Sparagana, A. Little

Rapid evaluation of thyroid nodules using ^{99m}Tc-pertechnetate scanning. *Journal of Nuclear Medicine*, 11, 5:224-25.

KNOSPE, WILLIAM H., Associate Professor

Articles

With G. Skramek and others

Distribution of antibodies to Epstein-Barr virus in various American population groups. *Medical Bulletin of Presbyterian—St. Luke's Hospital*, 8:86-90.

With R. Lee, H. Bucheleles

Diffuse angiomatosis. *American Heart Journal*, 79:552-61.

With W. Fried, S. Gregory, R. Sasseti,
F. Trobaugh

Effect of a non-cellular, spleen-derived factor on recovery of hematopoietic stem cells from irradiation. *Journal of Laboratory and Clinical Medicine*, 76:584-92.

With P. Tischendorf and others

Development and persistence of immunity to

Epstein-Barr virus in man. *Journal of Infectious Diseases*, 122:401-9.

KORNEL, LUDWIG, Professor

Articles

With M. Riddle, T. Schwartz

The management of hypertension associated with disorders of function of the endocrine glands ("endocrine hypertension"). In *Medical clinics of North America*, ed. by R. Kark, W. B. Saunders, Philadelphia, pp. 23-45.

With J. Moore, I. Noyes

Corticosteroids in human blood, IV: distribution of cortisol and its metabolites between plasma and erythrocytes *in vivo*. *Journal of Clinical Endocrinology and Metabolism*, 30, 1:40-50.

With S. Miyabo

Isolation and identification from human blood of sulfate conjugated metabolites of cortisol-4-¹⁴C. In *Proceedings of the third international congress on hormonal steroids*, Excerpta Medica International Congress Series, no. 4, September, 1970.

LEVINE, HAROLD, Associate Professor

Articles

With W. Metzger, L. Kay, D. Vacera

Pleural biopsy culture for tubercle bacilli. *Archives of Internal Medicine*, 126:269-71.

County hospital—revolution within the establishment. *The New Physician*, 19, 10: 837-45.

Victory at Cook County. *New England Journal of Medicine*, 283:1056.

LEVITAN, RUVEN, Professor

Articles

With A. Mendeloff, K. Juniper, Jr., H. Cooper,
J. Farrar

Diseases of the colon. In *Medicine: essentials of clinical practice*, ed. by Keefer and Wilkins, Little, Brown and Co., Boston, pp. 503-15.

With A. Righetti

Small bowel absorption in hypophysectomized rats. *American Journal of Digestive Diseases*, 15, 3:218-25.

With S. Gorbach, G. Neale, G. Hepner

Alterations in human intestinal microflora during experimental diarrhoea. *Gut*, 11:1-6.

With I. Mauer

Regional enteritis and celiac artery stenosis with negative small bowel studies. *Digestion*, 3:105-10.

With S. Gorbach

Intestinal flora in health and in gastrointestinal diseases. *Progress in Gastroenterology*, 11:252.

With E. Havivi

Effect of hypophysectomy on amino acid, thymidine, and orotic acid incorporation into the mucosa of the small bowel. *Canadian Journal of Biochemistry*, 48, 7:828-30.

With D. Croft

DNA loss, cell loss, and epithelial turnover in the intact human colon. *Proceedings of the Royal Society of Medicine*, 63:15-16.

With R. Chandrasekhara

Spontaneous rupture of the esophagus. *Archives of Internal Medicine*, 126:1008-9.

Reviews

Progress in liver diseases, by Popper and Schaffner. *Annals of Internal Medicine*, 73:154.

LITTMAN, ARMAND, Professor

Articles

With D. Hanscom

Current concepts: pancreatic extracts. *New England Journal of Medicine*, 281:201-4.

With G. Perry, M. Littman

Attempts to produce achlorhydria in dogs by repeated gastric injury with heat and cold. *American Journal of Digestive Diseases*, 15:427-36.

With T. Chalmers

Amylopectin sulfate, propantheline and recurrent duodenal ulcer. *Gastroenterology*, 58: 913-14.

Progress in gastroenterology, by G. Glass. *Military Medicine*, 135:301.

Progress in liver diseases, by H. Popper. *Ibid.*, p. 256.

The biliary tract, by G. Dowdy. *Ibid.*, p. 618.

LOEB, HENRY S., Assistant Professor

Articles

With R. Gunnar, R. Pietras, J. Tobin, Jr.

The hemodynamic effects of myocardial infarction and results of therapy. *Medical Clinics of North America*, 54:235.

With K. Rosen, R. Gunnar, R. Chuquimia, M. Sinno, S. Rahimtoola

Site of heart block in acute myocardial infarction. *Circulation*, 42:925-32.

LOURENÇO, RUY V., Professor

Articles

Diaphragm activity in obesity. *Journal of Clinical Investigation*, 48:1609-14.

Distribution and clearance of aerosols. *American Review of Respiratory Diseases*, 101, 3:460-61.

MILLER, GEORGE E., Professor, Director of Center for Educational Development

Articles

A perspective on research in medical education. In *Eighth annual conference on research in medical education*, Cincinnati, Ohio, November, 1969.

MUFSON, MAURICE A., Associate Professor

Articles

Mycoplasma hominis 1 in respiratory tract disease. *Annals of the New York Academy of Science*, 174:798-808.

With H. Krause, H. Mocega, F. Dawson

Viruses, mycoplasma pneumoniae and bacteria associated with lower respiratory tract disease among infants. *American Journal of Epidemiology*, 91:192-202.

With L. Zollner

Acute parotitis associated with parainfluenza 3 virus infection. *American Journal of Diseases of Children*, 119:147-48.

Parotitis of non-mumps etiology. *Hospital Practice*, 5:93-96.

PAP, LUCIA T. FISCHER, Clinical Associate

Articles

Rhymocytology and its diagnostic possibilities in allergy. *Illinois Medical Journal*, 137, 6: 611-14, 656.

Reviews

Rhymocytology may become important tool for allergists. *Internal Medicine and Diagnosis News*, 3, 18:5.

PAUL, OGLESBY, Professor

Articles

CPC. *New England Journal of Medicine*, 282:327-35.

The international cooperative study on epidemiology. *Circulation*, 41:895.

Sudden death. *Ibid.*, 43:7.

PIETRAS, RAYMOND J., Associate Professor

Articles

With W. Adad, H. Bliss

Left ventricular outflow tract obstruction with an ostium primum defect. *Archives of Internal Medicine*, 125:701-4.

POLLAK, VICTOR E., Professor

Articles

With C. Arbel

The distribution of Tamm-Horsfall mucoprotein (uromucoid) in the human nephron. *Nephron*, 6:667-72.

With A. Pesce, M. Gaizutis

Selectivity of proteinuria: an evaluation of the immunochemical and gel filtration techniques. *Journal of Laboratory and Clinical Medicine*, 75:586-606.

With R. Muehrcke, H. Mattenheimer

Quantitative enzyme patterns in the nephron of the healthy human kidney. *Nephron*, 7: 144-54.

With B. Ooi

Proteinuria. *Medical Times*, 98:81-88.

With L. Salinas-Madrigal, C. Pirani

Glomerular and vascular "insuditative" lesions of diabetic nephropathy: electron microscopic observations. *American Journal of Pathology*, 59:369-97.

With G. Pietra, A. Fishman, I. Dujoune

Clinicopathologic conference. *American Heart Journal*, 80:247-67.

With B. Ooi, A. Pesce

The distribution of serum albumin in the diseased human nephron as demonstrated by immunofluorescence. *Journal of Laboratory and Clinical Medicine*, 76:357-72.

PYLE, MARJORIE M., Clinical Professor

Articles

Ethambutol and viomycin. *Medical Clinics of North America*, 54, 5:1317-27.

RAHIMTOOLA, SHAHBUDIN H., Associate Professor

Articles

With G. Gau, C. Oakley, M. Raphael, R. Steiner

Selective coronary arteriography: a review of 18 months experience. *Clinical Radiology*, 21:275-86.

With G. Gau, M. Raphael

Cardiac performance after diagnostic coronary arteriography. *Circulation*, 41:537-44.

With T. Knopp, H. Swan

Recording of first derivative of ventricular pressure using conventional cardiac catheters. *Cardiovascular Research*, 4:398.

With K. Rosen, H. Loeb, R. Chuquimia, M. Sinno, R. Gunnar

Site of heart block in acute myocardial infarction. *Circulation*, 42:924-33.

With K. Rosen, R. Gunnar

Pseudo A-V block secondary to non-propagated His bundle depolarizations—docu-

- mented by His bundle electrocardiography. *Ibid.*, pp. 367-73.
- With M. Raphael, W. Pitney, E. Olsen, M. Webb-Peplee
Therapeutic defibrination and heparin therapy in the prevention and resolution of experimental venous thrombosis. *Ibid.*, pp. 729-37.
- ROSEN, KENNETH M.**, Assistant Professor
Articles
With S. Lau, M. Weiss, A. Damato
The effect of lidocaine on atrioventricular and intraventricular conduction in man. *American Journal of Cardiology*, 25:1-5.
With H. Loeb, R. Chuquimia, M. Sinno, S. Rahimtoola, R. Gunnar
Site of heart block in acute myocardial infarction. *Circulation*, 42:925-33.
With S. Lau, S. Cohen, E. Stein, J. Haft, A. Damato
P waves and P loops in coronary sinus and left atrial rhythms. *American Heart Journal*, 79, 2:201-14.
With A. Wit, M. Weiss, W. Berkowitz, C. Steiner, A. Damato
Patterns of atrioventricular conduction in the human heart. *Circulation Research*, 27: 345-58.
With S. Rahimtoola, R. Gunnar
Pseudo A-V block secondary to non-propagated His bundle depolarizations—documented by His bundle electrocardiography. *Circulation*, 42, 3:367-73.
With R. Patton, E. Stein, S. Lau, A. Damato
Bundle of His electrograms: a new method for analyzing arrhythmias. *American Journal of Cardiology*, 26:324-27.
- ROSENBLATE, HOWARD J.**, Instructor
Articles
With others
The liver in sickle cell anemia. *Archives of Pathology*, 90:3.
- RYAN, WILL G.**, Assistant Professor
Articles
With T. Schwartz, G. Northrop
Experience in the treatment of Paget's disease of bone with mithramycin. *Journal of the American Medical Association*, 213: 1153-57.
With S. Taylor III, T. Schwartz, J. Zannini
Streptozotocin therapy for metastatic insulinoma. *Archives of Internal Medicine*, 126: 654-57.
With F. Melani, A. Rubenstein, D. Steiner
Proinsulin secretion by a pancreatic beta-cell adenoma. Proinsulin and C-peptide secretion. *New England Journal of Medicine*, 283:713-19.
- SAMTER, MAX**, Professor
Articles
Early eosinophilia induced in guinea pigs by intrapulmonary injection of antigenic determinants and antigens. *Journal of Allergy*, 45, 4:234-47.
- Reviews**
A million locks and keys, by C. Heintze. *The American Biology Teacher*, 32, 9:560-61.
Advances in immunology, by Dixon and Kunkel. *Journal of the American Medical Association*, 214, 9:1713.
The allergic child, by V. Fontana. *Annals of Internal Medicine*, 72, 3:448-49.
- SCHADE, STANLEY G.**, Assistant Professor
Articles
With B. Felsher, G. Bernier, M. Conrad
Interrelationship of cobalt and iron absorption. *Journal of Laboratory and Clinical Medicine*, 75:435-41.
With B. Felsher, B. Glader, M. Conrad
Effect of cobalt upon iron absorption. *Proceedings of the Society for Experimental Biology and Medicine*, 134:741-43.
With G. Bernier, M. Conrad
Ferritin production in the small intestine. *British Journal of Hematology*, 19:361-67.
- SCHMIDT, ALEXANDER M.**, Professor, Dean, The Abraham Lincoln School of Medicine
Articles
The university and social needs of the 70's. *Illinois Medical Journal*, 137, 2:133-37, 194.
- SCHWARTZ, FRANKLIN D.**, Associate Professor
Books Edited
With R. Kark
Symposium on diseases of the kidney. W. B. Saunders, Philadelphia, 269 pp.
- Articles**
With G. Van Horn, J. Drori
Hypokalemic myopathy and serum enzyme elevation. *Archives of Neurology*, 22:335-41.
With V. Pillay, R. Kark
Ethacrynic acid; its usefulness and untoward effects. *American Heart Journal*, 79, 3:427-28.
With V. Pillay, P. Robbins, R. Kark
Acute renal failure following intravenous urography in diabetes mellitus with azotemia. *Radiology*, 95, 3:633-36.
With D. Wilson
Cellular transport of iodopyracet (diodrast): studies in erythrocytes from normal and azotemic individuals. *Proceedings of the Fourth Congress on Nephrology*, 2:272-77.
- SCHWARTZ, THEODORE B.**, Professor
Books
Yearbook of endocrinology. Yearbook Medical Publishers, Chicago, 411 pp.
- Articles**
With M. Riddle
New tactics for hyperthyroidism: sympathetic blockade. *Annals of Internal Medicine*, 72: 5.
With W. Ryan, G. Northrop
Experience in the treatment of Paget's disease of bone with mithramycin. *Journal of the American Medical Association*, 213: 1153-57.
With S. Taylor III, W. Ryan, J. Zannini
Streptozotocin therapy for metastatic insulinoma. *Archives of Internal Medicine*, 126: 654-57.
- STANLEY, MALCOLM M.**, Professor
Articles
Steroid-wasting enteropathy: clinical picture, bile salt absorption and fecal excretion, and therapy. In *Bile salt metabolism*, ed. by Schiff, Carey, and Dietschey, Charles C. Thomas, Springfield, Illinois, pp. 266-83.
Quantification of intestinal functions during fasting: estimations of bile salt turnover, fecal calcium and nitrogen excretion. *Metabolism*, 19, 10:865-75.

STERN, IVAN J., Lecturer

Articles

Biochemistry of chymopapain. *Clinical Orthopedics*, 67:42-46.

STEIGMANN, FREDERICK, Clinical Associate Professor

Articles

With F. Villa

Peritoneoscopy. In *Gastroenterologic medicine*, ed. by Paulson, Lea & Febiger, Philadelphia, pp. 294-308.

With R. Condon, C. Bombeck

Heterologous bovine liver perfusion therapy of acute hepatic failure. *American Journal of Surgery*, 117:37-43.

With F. Villa, J. Elizondo, H. Byun

Significance of peritoneoscopy in the presence of hepatic space-occupying lesions by liver scan. *American Journal of Gastroenterology*, 53, 5:474-77.

With M. Shah

Fatty liver with jaundice: a diagnostic enigma with surgical implications. *Ibid.*, 54, 2:126-33.

With R. Condon, D. Silverman, C. Bombeck, I. Alavi, A. Dubin

Hepatic coma: newer pathogenetic and therapeutic factors. *Ibid.*, 4:355-62.

With M. Sait, K. Rajagopal, F. Villa

Oral amphotericin B in the treatment of ulcerative intestinal diseases. *American Journal of Digestive Diseases*, 15, 11:993-1002.

SUSMANO, ARMANDO, Assistant Professor

Articles

With R. Carleton

The adrenergic system and electrical systole. *Journal of Electrocardiology*, 2, 4:381-84.

Study of hilar masses by angiocardiology. *Chest*, 57:406-10.

TAYLOR, SAMUEL G., III, Professor

Articles

Hormonal therapy in the management of disseminated cancer. In *Chemotherapy of cancer*, ed. by W. Cole, Lea & Febiger, Philadelphia, pp. 204-27.

Medicine. In *Guidelines for cancer care*, ed. by Committee on Guidelines for Cancer Care, Commission on Cancer, American College of Surgeons, Chicago, pp. 141-46.

Chemotherapy. *Ibid.*, pp. 165-67.

Endocrine ablative procedures in the treatment of disseminated breast cancer. In *Medicine, biology and surgery at the Carlo Erba Foundation*, Milan, pp. 1126-32.

Common medical problems in disseminated cancer. *Geriatrics*, 25:102-5.

With C. Perlia, N. Gubisch, J. Wolter, D. Edelberg, M. Dederick

Mithramycin treatment of hypercalcemia. *Cancer*, 25:389-94.

With T. Schwartz, J. Zannini, W. Ryan

Streptozotocin therapy for metastatic insulinoma. *Archives of Internal Medicine*, 126: 654-57.

With S. Cutler, A. Asire

Prognostic significance of ovarian status in patients with disseminated cancer of the breast. *Cancer*, 26:938-43.

TRAUT, EUGENE F., Associate Professor Emeritus

Articles

With C. Thrift

Obesity in arthritis: related factors — dietary therapy. *Journal of the American Geriatric Society*, 17, 7:710-18.

TREMONTI, LAWRENCE P., Assistant Professor

Articles

Tokyo Yokohama asthma. *Annals of Allergy*, 28:590-99.

With B. Walton

Blast transformation and migration inhibition in toxoplasmosis and leishmaniasis. *American Journal of Tropical Medicine and Hygiene*, 19:49-56.

WILLIAMS, GERALD A., Professor

Articles

With G. Hargis, C. Sidwell, B. Jackson

An ultramicromethod for serum calcium determination. *The American Journal of Clinical Pathology*, 52, 6:773-75.

ZELKOWITZ, LEO, Assistant Professor

Articles

With V. Yakulis

Immunologic methods for detection and quantification of Bence Jones proteins. *The Journal of Laboratory and Clinical Medicine*, 76, 6:973-80.

MICROBIOLOGY

ANDERSON, TRUMAN O., Dean, School of Basic Medical Sciences and Professor of Medicine and Microbiology

See Medicine.

ARNOLD, LEE, Research Associate

Articles

With P. Baram

Immunologic aspects of periodontal disease. *Journal of Periodontics*, 41:617-19.

BARAM, PETER, Associate Professor

Articles

Discussion of specificity of serological reactions. *Annals of the New York Academy of Sciences*, 169:281-82.

With W. Condoulis

The *in vitro* transfer of delayed hypersensitivity to Rhesus monkey and human lymphocytes with transfer factor obtained from Rhesus monkey peripheral white blood cells. *The Journal of Immunology*, 104:769-79.

With L. Arnold

Immunologic aspects of periodontal disease. *Journal of Periodontics*, 41:617-19.

BECKER, MILTON J., Assistant Professor

Articles

With P. Ralph, A. Rich

A study of lymph node polysomes and proteins during antibody production. *Biochimica et Biophysica Acta*, 199:224-35.

BELL, CLARA G., Assistant Professor

Articles

With S. Dray

Conversion of non-immune rabbit spleen cells by ribonucleic acid of lymphoid cells from

an immunized rabbit to produce IgG antibody of foreign light chain allotype. *The Journal of Immunology*, 105:541-56.

COYLE, MARIE B., Instructor

Articles

With B. S. Strauss

Characteristics of DNA synthesized by Methyl Methanesulfonate-treated HEP · 2 cells. *Chemical Biological Interactions*, 1:89-98.

Cell killing and the accumulation of breaks in the DNA of HEP · 2 cells incubated in the presence of Hydroxyurea. *Cancer Research*, 30:2314-19.

DEINHARDT, FRIEDRICH, Professor

Articles

Hepatitis in subhuman primates and the hazards to man. In *Infections and immunosuppression in subhuman primates*, Munksgaard, Copenhagen, pp. 55-63.

Induction of tumors in marmosets with ST-feline fibrosarcoma virus. *Bibliotheca Haematologica*, 36:401-2.

With L. Wolfe, G. H. Theilen, S. P. Snyder

ST-feline fibrosarcoma virus: induction of tumors in marmoset monkeys. *Science*, 167: 881.

With A. W. Holmes, L. G. Wolfe

Hepatitis in marmosets. *Journal of Infectious Diseases*, 121:351-52.

With B. Marczynska, G. Treu-Sarnat

Characteristics of long-term marmoset cell cultures spontaneously altered or transformed by Rous Sarcoma virus. *Journal of the National Cancer Institute*, 44:545-72.

With U. Junge, J. Hoekstra

Altered antigenicity of cultured mononucleosis lymphocytes. *Lancet*, 2:217.

With U. Junge, J. Hoekstra, L. Wolfe

Microtechnique for quantitative evaluation of *in vitro* lymphocyte transformation. *Clinical Experimental Immunology*, 7:431-37.

With P. Tischendorf, G. Shramek, R. C. Balagtas, W. H. Knospe, and others

Development and persistence of immunity to Epstein-Barr virus in man. *Journal of Infectious Diseases*, 122:401-9.

With J. E. Maynard, G. Shramek, G. R. Noble, P. Clark

Use of attenuated live mumps virus vaccine during a "virgin soil" epidemic of mumps on St. Paul Island, Alaska. *American Journal of Epidemiology*, 92:301-6.

Reviews

Virus diseases of the liver, by A. J. Zuckerman. *Nature*, 227:636.

DRAY, SHELDON, Professor and Head of Department

Articles

With J. L. Vice, W. L. Hunt

Contribution of the b and c light chain loci to the composition of rabbit IgG-immunoglobulins. *The Journal of Immunology*, 104:38-44.

With S. Lolekha, S. P. Gotoff

Macrophage aggregation *in vitro*: a correlate of delayed hypersensitivity. *Ibid.*, pp. 296-304.

With J. L. Vice, A. Gilman-Sachs, W. L. Hunt

Allotype suppression in a²a² homozygous rabbits fostered *in utero* of a²-immunized a²a¹ homozygous mothers and injected at birth with anti-a² antiserum. *Ibid.*, pp. 550-54.

With E. A. Lichter, T. P. Conway, A. Gilman-Sachs

Presence of allotypic specificities of three loci, a, b and f, on individual molecules of rabbit colostral IgA immunoglobulin. *The Journal of Immunology*, 105:70-74.

With S. B. Spring, A. Nisonoff

Independence of allotypic determinants and antibody specificity. *Ibid.*, pp. 653-60.

With C. Bell

Conversion of non-immune rabbit spleen cells by ribonucleic acid of lymphoid cells from an immunized rabbit to produce IgG antibody of foreign light chain allotype. *Ibid.*, pp. 541-56.

With B. H. Berne, K. L. Knight

Identification and genetic control of the Mt-3 and Mt-4 allotypes of rabbit serum α_2 -macroglobulin. *Ibid.*, pp. 856-64.

With R. E. Jurezic, D. E. Thor

Transfer of the delayed hypersensitivity skin reaction in the guinea pig using RNA-treated lymphoid cells. *Ibid.*, pp. 1313-21.

With R. E. Paque

Interspecies "transfer" of delayed hypersensitivity *in vitro* with RNA extracts. *Ibid.*, pp. 1334-38.

GOTOFF, SAMUEL P., Associate Professor

See Pediatrics.

HAQUE, RIAZ-UL, Associate Professor

Articles

With S. Makonkawkeyoon

Immunodisc electrophoresis. *Analytical Biochemistry*, 36:422-27.

With J. N. Baldwin

Purification and properties of Staphylococcal β hemolysin. *Journal of Bacteriology*, 100: 751-59.

HUNT, WILLIAM L., Research Associate

Articles

With J. L. Vice, S. Dray

Contribution of the b and c light chain loci to the composition of rabbit IgG-immunoglobulins. *The Journal of Immunology*, 104: 38-44.

With J. L. Vice, A. Gilman-Sachs, S. Dray

Allotype suppression in a²a² homozygous rabbits fostered *in utero* of a²-immunized a²a¹ homozygous mothers and injected at birth with anti-a² antiserum. *Ibid.*, pp. 550-54.

KHOUBYARIAN, NEWTON, Associate Professor

Articles

With W. D. Winters

Fate of adenovirus type 2 and 12 in serially passaged cells of non-primate origin. *Journal of General Virology*, 8:95-104.

KNIGHT, KATHERINE L., Assistant Professor

Articles

With B. Berne, S. Dray

Identification and genetic control of the Mt-3 and Mt-4 allotypes of rabbit serum α_2 -macroglobulin. *The Journal of Immunology*, 105: 856-64.

Reviews

Basic exercises in immunochemistry, by A. Nowotny. *Immunochemistry*, 7:747.

MARCZYNSKA, BARBARA, Instructor

Articles

With G. Treu-Sarnat, F. Deinhardt

Characteristics of long-term marmoset cell cultures spontaneously altered or transformed by Rous sarcoma virus. *Journal of the National Cancer Institute*, 44:545-72.

PAQUE, RONALD E., Assistant Professor

Articles

With S. Dray

Interspecies "transfer" of delayed hypersensitivity *in vitro* with RNA extracts. *The Journal of Immunology*, 105:1334-38.

REITER, HARVARD, Associate Professor

Articles

Solubilization of DNA in *Bacillus subtilis* during recovery from UV-irradiation. *Mutation Research*, 10:7-10.

With G. Ramareddy

Sequential loss of loci in thymine-starved *Bacillus subtilis* 168 cells evidence for a circular chromosome. *Journal of Molecular Biology*, 50:525-32.

Loss of DNA behind the growing point of thymine-starved *Bacillus subtilis* 168. *Ibid.*, pp. 533-48.

SHRAMEK, GRACE, Research Associate

Articles

With P. Tischendorf, R. C. Balagtas, F. Deinhardt, W. H. Knospe, and others

Development and persistence of immunity to Epstein-Barr virus in man. *Journal of Infectious Diseases*, 122:401-9.

With J. E. Maynard, G. R. Noble, F. Deinhardt, P. Clark

Use of attenuated live mumps virus vaccine during a "virgin soil" epidemic of mumps on St. Paul Island, Alaska. *American Journal of Epidemiology*, 92:301-6.

THOR, DANIEL E., Associate Professor of Microbiology and Medicine

Articles

With R. E. Juresis, S. Dray

Transfer of the delayed hypersensitivity skin reaction in the guinea pig using RNA-treated lymphoid cells. *The Journal of Immunology*, 105:1313-21.

VICHER, EDWARD E., Professor

Articles

With R. A. Zussman, I. Lyon

Aromatic amino acid biosynthesis in *Trichophyton Rubrum*. III: exogenous studies: absence of the Shilcimidic acid pathway. *Mycologia et Mycopathologia*, 42:1.

Reviews

Zinsser microbiology, by D. T. Smith, N. F. Conant, H. P. Willett. *The New Physician*, 18:771, 781. 1969.

WIDRA, ABE, Associate Professor

With I. Long

Taxonomic studies on Cryptococci and related yeasts. *Mycopathologia*, 40:89-96.

DOCTORAL DISSERTATIONS

Johnson, Henryka B. (C. W. Hammond, Adviser), Bactericidal activity of fixed and circulating phagocytes in murine radiation chimeras compared with those from unirradiated mice.

Murphy, Richard A. (R. Haque, Adviser), Purification of staphylococcal delta hemolysin.

Taylor, William G. (T. Myers, Adviser), Isolation of a growth substance for mammalian cells cultured *in vitro*.

NEUROLOGICAL SURGERY

BAILEY, ORVILLE T., Professor of Neurology

Articles

With W. Haymaker, E. V. Benton, F. S. Vogel, W. Zeman, and others

Brain study in balloon-borne monkeys exposed to cosmic rays. *Aerospace Medicine*, 41, 9:989-1002.

Reviews

Virus diseases and the nervous system, ed. by C. W. M. Whitty, J. T. Hughes, and F. O. MacCallum. *Journal of the American Medical Association*, 211:127.

The structure and function of nervous tissue, vol. 3: biochemistry and disease, ed. by Geoffrey H. Borum. *Ibid.*, 212:1528.

Family portrait, by Catherine Drinker Bowen. *Ibid.*, 214:918.

Illustrated tumor nomenclature, international union against cancer, by Herwig Hamperl and Lauren Ackerman. *Journal of Neurosurgery*, 33:607.

Otrifid Foerster, physician and neurologist, by K. J. Zulch. *Review of Surgery*, 27:455.

Muscle pathology; introduction and atlas, by J. Bethelm. *Diseases of the Nervous System*, 31:860.

SUGAR, OSCAR, Professor and Head of Department of Neurosurgery

Reviews

Harvey Cushing: selected papers on neurosurgery, by German Matson. *Review of Surgery*, 27, 1:73.

Cranial and intracranial suppuration, ed. by E. S. Gurdjian. *Ibid.*, 3:230.

Medical neurology, by John Gilroy and John S. Meyer. *Ibid.*, 4:302-3.

Pain and suffering: selected aspects, by Benjamin L. Crue, Jr. *Ibid.*, 28, 1:74-76.

Research on the cerebral circulation, third international Salzburg conference, ed. by John Stirling, Helmut Lechner, and Otto Eichborn. *Diseases of the Nervous System*, 31, 11:794.

Involuntary movement disorders, by Irving Spencer Cooper. *Journal of the American Medical Association*, 212, 4:631.

Radionuclide applications in neurology and neurosurgery, ed. by Yen Wang and Pietro Peoletti. *Ibid.*, 214, 3:2340.

Operative neurosurgery, vol. 2: posterior fossa, spinal cord and peripheral nerve disease, by Ludwig G. Kempe. *Ibid.*, 11:2062.

Recent advances in the study of cerebral circulation, ed. by Juan M. Taveras, Herman Fishgold, and Domenico Dilenge. *Ibid.*, 215, 2:301.

Trigeminal neuralgia: Pathogenesis and pathophysiology, ed. by Rolf Hassler and A. Earl Walker. *Ibid.*, 4:646.

NEUROLOGY

BOSHES, LOUIS D., Clinical Professor and Director, Consultation Clinic for Epilepsy

Articles

A review of the psychological and neurological disorders of pregnancy. *Journal of Practical Nursing*, 20:43-50.

Eulogy for Dr. Meyer A. Perlstein. *Proceedings of the Institute of Medicine of Chicago*, 30, 1:35-38.

The values, limitations and future of echoencephalography. *Excerpta Medica, Amsterdam*, 1970:237-38.

To tell or not to tell. *International Surgery Bulletin*, 54, 6:12-17.

With H. W. Kienast, L. H. Hussman

Echoencephalography in the evaluation of various cerebral diseases. In *The use of reflex mechanisms in reeducation of mobility*, Z. T. Publishers, Prague, Czechoslovakia, pp. 79-83.

With H. W. Kienast

Community aspects of epilepsy, a modern approach. *Illinois Medical Journal*, 138, 2: 140-47.

Community aspects of epilepsy, a modern approach. *Excerpta Medica, Amsterdam*, 1970: 191.

With H. W. Kienast, E. L. Hardy
I. R. Owens

The life situation of epileptic children and adolescents: its significance in rehabilitating patients with convulsive disorders. In *Third European symposium, manuscripts and abstracts*, pp. 90-91.

Reviews

A modern clinical psychiatry, by A. Noyes. *Diseases of the Nervous System*, 31, 2:144.

The psychological world of the teenager, by Daniel Offer. *Diseases of the Nervous System*, 31:5.

Neurology of cerebellar evolution and development, ed. by R. Llinas. *Ibid.*, p. 931.

Bing's local diagnosis in neurological diseases, by Webb Haymaker. *Ibid.*, 10:719.

Basic mechanisms of epilepsies, ed. by H. H. Jasper, A. A. Ward, and A. Pope. *Current Medical Digest*, July:629.

COHEN MAYNARD M., Professor

Articles

With H. L. Klawans, Jr.

Diseases of the extrapyramidal system. *Disease-a-Month*, January, 1970.

KLAWANS, HAROLD L., JR., Professor

Articles

With M. M. Cohen

Diseases of the extrapyramidal system. *Disease-a-Month*, January, 1970.

With M. A. Erlich

Observations on the mechanism of Parkinsonism blepharospasm and its treatment with L-Dopa. *European Neurology*, 3:365-72.

With W. Weiner

Catecholamines in the brain. *New England Journal of Medicine*, 282:513-14.

DAVIS, FLOYD A., Clinical Assistant
Professor

Articles

Axonal conduction studies based on some considerations of temperature effects in multiple sclerosis. *Electroencephalography and Clinical Neurophysiology*, 28:281-86.

With F. O. Becker, J. A. Michael, E. Sorensen
Acute improvement by chemical means of visual and oculomotor signs in multiple sclerosis: preliminary communication. *Presby-*

terian-St. Luke's Hospital Medical Bulletin, 9, 2:31-36.

OBSTETRICS AND GYNECOLOGY

CHATTERTON, ROBERT T., JR., Assistant
Professor

Articles

The function and metabolism of progesterone in mammary tissue. *Research in Reproduction*, 2, 2:3-4.

With A. J. Chatterton, L. Hellman

Metabolism of progesterone by the rabbit liver. *Endocrinology*, 87, 5:941-50.

IFFY, LESLIE, Associate Professor

Articles

With M. B. Wingate

Risks of rhythm method of birth control. *The Journal of Reproductive Medicine*, 5, 3:96-102.

McCARTNEY, CHARLES P., Clinical
Professor of Obstetrics and Gynecology

Articles

The toxemic glomerular lesion. In *Die Spätgestose (EPH-Gestose)*, ed. by E. T. Rippmann, Schwabe and Company, Basel-Stuttgart, Switzerland, pp. 50-54.

ODELL, LESTER, D., Clinical Professor of
Obstetrics and Gynecology

Articles

With R. Ortiz

The detection of papillary adenocarcinoma of the ovary by vaginal cytology. *The Journal of Reproductive Medicine*, 5, 3:127-31.

Observations on the use of the colposcope for cervical neoplasia. *Ibid.*, 4, 3:97-104.

SAVAGE, EDWARD W., JR., Assistant
Professor

Articles

With S. G. Kohl, R. M. Wynn

Prolapse of the umbilical cord. *Obstetrics and Gynecology*, 36, 4:502-9.

Reviews

Modern trends in obstetrics, vol. 4, ed. by R. J. Kellar. *American Journal of Obstetrics and Gynecology*, 107, 2:334-36.

Prenatal environment, by Antonio J. Ferreira. *Ibid.*, 108, 6:996-98.

WYNN, RALPH M., Professor and Head
of Department

Books Edited

Fourth conference on fetal homeostasis. Appleton-Century-Crofts, New York, 304 pp.

Articles

Immunological protection of the placenta. In *Fourth conference on fetal homeostasis*, ed. by Ralph M. Wynn, Appleton-Century-Crofts, New York, pp. 261-69.

Cervical biopsy versus conization. *Review of Surgery*, 26, 6:402-4.

Morphological effects of intrauterine contraceptive devices. *Illinois Medical Journal*, 137, 4:333-37.

Functional interpretation of placental ultrastructure. *Ibid.*, 5:523-27.

With I. Sawaragi

Ultrastructural localization of metabolic enzymes during the human endometrial cycle. *Obstetrics and Gynecology*, 34, 1:50-61.

With M. W. Orsini, J. A. Harris,
J. M. Bulmash

Comparative ultrastructure of decidua in preg-

nancy and pseudopregnancy. *American Journal of Obstetrics and Gynecology*, 106, 1:14-25.

With E. W. Savage, S. G. Kohl

Pro lapse of the umbilical cord. *Obstetrics and Gynecology*, 36, 4:502-9.

Reviews

Foetal autotomy, ed. by G. E. W. Wolsteinholme and M. O'Connor. *Obstetrics and Gynecology*, 35, 3:484-85.

Modern trends in obstetrics, vol. 4, ed. by R. J. Kellar. *Medical Opinion and Review*, 6, 9:66-71.

Operative gynecology (fourth ed.), by R. W. Te Linde and R. F. Mattingly. *American Journal of Obstetrics and Gynecology*, 108, 8:1298-1300.

Operative gynecology (fourth ed.), by R. W. Te Linde and R. F. Mattingly. *Review of Surgery*, 27, 5:380.

Posterior colpotomy: surgical technique and clinical experience, by J. A. Morris. *Review of Surgery*, 27, 4:244.

Progress in gynecology, vol. 5, ed. by S. H. Sturgis and M. L. Taymor. *American Journal of Obstetrics and Gynecology*, 108, 4: 678-80.

Progress in gynecology, vol. 5, ed. by S. H. Sturgis and M. L. Taymor. *Review of Surgery*, 27, 5:381-82.

OPHTHALMOLOGY

CHAPMAN, LAWRENCE I., Instructor

Articles

With M. T. Miller, E. R. Folk, M. J. Urist

Acute paresis in late childhood: superior oblique palsy presenting in late childhood. *American Journal of Ophthalmology*, 70: 212-14.

Acquired bilateral superior oblique muscle palsy. *Archives of Ophthalmology*, 84:137-42.

COTLIER, EDWARD, Assistant Professor

Articles

The cornea. In *Physiology of the eye* (fifth ed.), by Adler, ed. by R. Moses, C. V. Mosby, St. Louis, chapter 2, pp.

Myo-Inostol: active transport by the crystalline lens. *Investigative Ophthalmology*, 9: 681.

With L. Coben, C. Beaty, B. Becker

Transport of aminoacids by rabbit optic nerve. *Ibid.*, 9:949.

FOLK, EUGENE, Associate Professor

Articles

With L. I. Chapman, M. T. Miller, M. J. Urist

Acute paresis in late childhood: superior oblique palsy presenting in late childhood. *American Journal of Ophthalmology*, 70: 212-14.

Acquired bilateral superior oblique muscle palsy. *Archives of Ophthalmology*, 84:137-42.

GOLDBERG, MORTON F., Professor and Head of Department

Articles

Management of posterior segment intraocular foreign bodies. *Journal of the Mississippi State Medical Association*, 11:149-58.

With C. I. Scott, V. A. McKusick

Hydrocephalus and papilledema in Maroteaux-Lamy syndrome (mucopolysaccharidosis type

6). *American Journal of Ophthalmology*, 69:969-75.

With C. V. Burton

Exophthalmos from ruptured intracavernous carotid aneurysm without pulsation, bruit, or murmur. *Ibid.*, 70:830-32.

KAPLAN, JOEL A., Clinical Assistant Professor

Articles

Cryosurgery in retinal detachments. *Reportes Medicos*, 1, 4:26.

KRONFELD, PETER C., Professor Emeritus

Articles

Eserine and pilocarpine: our 100-year-old allies. *Survey of Ophthalmology*, 14:479-85.

MILLER, MARILYN T., Assistant Professor

Articles

With E. R. Folk, L. I. Chapman, M. J. Urist

Acute paresis in late childhood: superior oblique palsy presenting in late childhood. *American Journal of Ophthalmology*, 70: 212-14.

Acquired bilateral superior oblique muscle palsy. *Archives of Ophthalmology*, 84:137-42.

PUTTERMAN, ALLEN M., Assistant

Professor

Articles

With B. Smith

Self-illuminating nasal speculum in orbital exploration. *American Journal of Ophthalmology*, 70:434-35.

Fixation of orbital floor implants. *Archives of Ophthalmology*, 83:598.

RABB, MAURICE, Assistant Professor

Articles

The present status of corneal transplantation. *Nursing Clinics of North America*, 5:3.

URIST, MARTIN J., Clinical Associate

Professor

Articles

Head tilt in vertical muscle paresis. *American Journal of Ophthalmology*, 69:440-42.

Neutralizing pattern deviations in ocular motility. *British Journal of Ophthalmology*, 54: 191-96.

Unilateral intermittent V 20 percent exotropia. *Annals of Ophthalmology*, 2, 1:60-67.

Complications following bilateral superior oblique weakening surgical procedures for A-pattern horizontal deviations. *American Journal of Ophthalmology*, 70:583-87.

With M. T. Miller, E. R. Folk, L. I. Chapman

Acute paresis in late childhood: superior oblique palsy presenting in late childhood. *American Journal of Ophthalmology*, 70: 212-14.

Acquired bilateral superior oblique muscle palsy. *Archives of Ophthalmology*, 85:137-42.

ORAL ANATOMY

BARGHUSEN, HERBERT R., Associate

Professor

See Anatomy.

de la TORRE, LUIS, Professor

Articles

With A. F. Grimm, M. La Porta, Jr.

Ventricular nuclei-DNA relationships with

myocardial growth and hypertrophy in the rat. *Circulation Research*, 26, 1:45-52.

With D. F. Hoffmeister

A revision of the wood rat *Neotoma stephensi*. In *Readings in mammalogy*, monograph no. 2, Museum of Natural History, University of Kansas, Lawrence, pp. 56-71.

Du BRUL, E. LLOYD, Professor and Head of Department

Books

With H. Sicher

Oral anatomy (fifth ed.). C. V. Mosby Co., St. Louis, 502 pp.

GRADY, JOHN E., Associate Professor

Articles

Tooth development in sharks. *Archives of Oral Biology*, 15:613-19.

Tooth development in *Latimeria chalumnae* (Smith). *Journal of Morphology*, 132, 4: 377-88.

SICHER, HARRY, Visiting Professor

Books

With E. L. Du Brul

Oral anatomy (fifth ed.). C. V. Mosby Co., St. Louis, 502 pp.

ORAL AND MAXILLOFACIAL SURGERY

ATTERBURY, ROBERT A., Associate Professor

Books

Explaining hospital oral surgery. Histacount Corp., Neville, New York, 16 pp.

Articles

Instructions for patients receiving ambulatory general analgesia or anesthesia for oral surgery. *The Academy of General Dentistry Journal*, 18, 2:13-15.

LASKIN, DANIEL M., Professor and Associate Head of Department

Articles

Treatment of common emergencies of the hospital dental patient. In *Introduction to hospital dentistry* (second ed.), ed. by Douglas, C. V. Mosby Co., St. Louis, pp. 103-28.

Management of odontogenic infections of head and neck. In *Current therapy in dentistry*, C. V. Mosby Co., St. Louis, pp. 376-87.

A sclerosing procedure for the flabby edentulous ridge. *Journal Prosthetic Dentistry*, 23:274-78.

PESKIN, SIDNEY, Associate Professor

Articles

With T. M. Graber

Surgical repositioning of teeth. *Journal of the American Dental Association*, 80, 6:1320-26.

ORAL DIAGNOSIS

COHEN, LAWRENCE, Professor and Head of Department

Articles

Establishing a hospital dental department. In *Introduction to hospital dentistry* (second ed.), ed. by Douglas, C. V. Mosby Co., St. Louis, pp. 169-71.

Chronic oral ulceration. *Journal of Oral Medicine*, 25:7.

The interpretation of age changes in the oral structures. *Ibid.*, p. 129.

DOUGLAS, BRUCE, Professor of Oral Diagnosis, Community Dentistry, Preventive Medicine and Community Health

Books Edited

Introduction to hospital dentistry (2nd ed.), C. V. Mosby Co., St. Louis, 186 pp.

MEDAK, HERMAN, Professor

Books

With E. McGrew, P. Burlakow, R. Tiecke

Atlas of oral cytology. U.S. Public Health Service, Washington, D.C. (no. 1949), 133 pp.

Articles

With P. Burlakow, E. McGrew, R. Tiecke

The cytology of vesicular conditions affecting the oral mucosa: pemphigus vulgaris. *ACTA Cytologica*, 14:11.

With A. Rubinstein, J. Meyer

The effects of smoking on surface cytology of the oral mucosa. *Oral Surgery, Oral Medicine and Oral Pathology*, 30:131.

SEBELIUS, CARL, Associate Professor of Community Dentistry

Articles

Fluoridation in Illinois. *Illinois Dental Journal*, 39:298.

ORAL PATHOLOGY

CHISHOLM, DERRICK M., Visiting Associate Professor

Articles

Minor salivary gland pathology in Sjögren's syndrome and rheumatoid arthritis. In *Fourth proceedings of the International Academy of Oral Pathology*, ed. by Loos; Gordon and Breech, Science Publishers, Inc., New York, pp. 44-56.

With J. P. Waterhouse, D. K. Mason

Lymphocytic sialadenitis in major and minor glands: a correlation in postmortem subjects. *Journal of Clinical Pathology*, 23: 690-94.

GERSON, STANLEY J., Associate Professor

Articles

With J. Meyer

Biochemical assay of heterogeneous soft tissues of the oral cavity. In *Advances in oral biology*, vol. 4, ed. by Staple, Academic Press, Inc., New York, pp. 289-312.

Levels of activity of glucose-6-phosphate, lactate, and malate dehydrogenase in cells of unkeratinized oral epithelium in the rabbit. *Archives of Oral Biology*, 15:253-61.

Acid phosphatase levels in unkeratinized oral epithelium in the rabbit. *The Journal of Investigative Dermatology*, 54, 5:416-23.

IQBAL, MUHAMMAD, Assistant Professor

Articles

Effect of *in vitro* addition of zinc on alkaline phosphatase activity in the zinc-deficient rat. *Enzymologia Biologica et Clinica*, 11, 5: 412-22.

With C. H. Wynn

A comparative study of rat liver, spleen and skin lysosomes. *Ibid.*, 4:360-68.

MEYER, JULIA, Professor

Articles

With S. Gerson

Biochemical assay of heterogeneous soft tissues of the oral cavity. In *Advances in*

oral biology, vol. 4, ed. by P. Staple, Academic Press, Inc., New York, pp. 289-312.

With O. F. Alvares, E. P. Barrington

Volume and dry weight of cells in the epithelium of rat cheek and palate. *Growth*, 34:57-73.

With A. Plackova, J. P. Waterhouse

Glycogen in clinical leukoplakia: distribution and fine structure in human buccal mucosa. *Archives of Dermatology*, 102:291-99.

With A. S. Rubinstein, H. Medak

Early effects of smoking on surface cytology of the oral mucosa, I: regional differences in surface cytology of smokers and non-smokers. *Oral Surgery, Oral Medicine and Oral Pathology*, 30, 1:131-41.

With G. A. Ullman, B. J. Schneider

Experimental studies on the interrelations of condylar growth and alveolar bone formation, III: response to relief of occlusion in aged rats. *The Angle Orthodontist*, 39, 2: 83-92.

WATERHOUSE, JOHN P., Professor and Head of Department

Articles

With D. M. Chisholm, D. K. Mason

Lymphocytic sialadenitis in major and minor glands: a correlation in postmortem subjects. *Journal of Clinical Pathology*, 23: 690-94.

With C. A. Squier

Lysosomes in oral epithelium: the ultrastructural localization of acid phosphatase and non-specific esterase in keratinized oral epithelium in man and rat. *Archives of Oral Biology*, 15:153-68.

With C. A. Squier, J. E. Linder

A comparison between osmiophilic reagents and the Gomori lead method for the electron cytochemical demonstration of two lysosomal enzymes in oral epithelium. *The Histochemical Journal*, 2:91-107.

With A. Plackova, J. Meyer

Glycogen in clinical leukoplakia: distribution and fine structure in human buccal mucosa. *Archives of Dermatology*, 102:291-99.

ORTHODONTICS

RENFROE, EARL W., Professor and Head of Department

Articles

Your edgewise arch appliance, I. *Journal of São Paulo Orthodontic Society, Brazil*, 2, 1:5-10.

Your edgewise arch appliance, II. *Ibid.*, 2, 2 and 3:95-104.

Your edgewise arch appliance, III. *Ibid.*, 3, 1:5-12.

Your edgewise arch appliance, IV. *Ibid.*, 3, 2:85-90.

ORTHOPAEDIC SURGERY

ALTNER, PETER C., Assistant Professor

Articles

With R. J. Freeark, J. T. Hartman

The effect of limb elevation in preventing venous thrombosis. *The Journal of Bone and Joint Surgery*, 52-A, 8:1618-22.

With R. R. Turner

Sporotrichosis of bones and joints. *Clinical*

Orthopaedics and Related Research, 68: 138-48.

BARASH, HARVEY L., Instructor

Articles

With J. O. Galante, C. N. Lambert, R. D. Ray
Spondylolisthesis and tight hamstrings. *The Journal of Bone and Joint Surgery*, 52-A, 7:1319-28.

DEWALD, RONALD L., Clinical Assistant Professor

Articles

With R. D. Ray

Skeletal traction for the treatment of severe scoliosis. *The Journal of Bone and Joint Surgery*, 52-A, 2:233-38.

With J. O. Galante, A. Schultz, R. D. Ray

Forces acting in the Milwaukee brace on patients undergoing treatment for idiopathic scoliosis. *Ibid.*, 3:498-506.

FETROW, KENNETH O., Clinical Associate

Articles

Practical and important variations in sensory nerve supply to the hand. *Journal of the British Society for Surgery of the Hand*, 2, 2:178-84.

GALANTE, JORGE O., Associate Professor

Articles

With A. Schultz, R. L. DeWald, R. D. Ray

Forces acting in the Milwaukee brace on patients undergoing treatment for idiopathic scoliosis. *The Journal of Bone and Joint Surgery*, 52-A, 3:498-506.

With H. L. Barash, C. N. Lambert, R. D. Ray
Spondylolisthesis and tight hamstrings. *Ibid.*, 7:1319-28.

With W. Rostoker, R. D. Ray

Physical properties of trabecular bone. *Calcified Tissue Research*, 5:236-46.

With A. Schultz

A mathematical model for the study of the mechanics of the human vertebral column. *Journal of Biomechanics*, 3:405-16.

HEJNA, WILLIAM F., Clinical Assistant Professor

Articles

Clinical applications of electrodiagnostic studies. In *Instructional course lectures: American Academy of Orthopaedic Surgeons*, vol. 19, chapter 4, pp. 41-54.

LAMBERT, CLAUDE N., Clinical Professor

Articles

With C. B. Hall, R. O'Rahilly, C. A. Swinyard
Nomenclature for congenital skeletal limb deficiencies, a revision of the Frantz and O'Rahilly classification. In *Selected articles from artificial limbs*, Robert E. Krieger Publishing Co., Inc., New York, pp. 373-84.

With H. L. Barash, J. O. Galante, R. D. Ray
Spondylolisthesis and tight hamstrings. *The Journal of Bone and Joint Surgery*, 52-A, 7:1319-28.

LIDGE, RALPH T., Clinical Assistant Professor

Articles

Medial meniscectomy in the osteoarthritic knee. *Clinical Orthopaedics and Related Research*, 68:63-71.

RAY, ROBERT D., Professor and Head
of Department

Articles

With R. L. DeWald

Skeletal traction for the treatment of severe scoliosis. *The Journal of Bone and Joint Surgery*, 52-A, 2:233-38.

With J. O. Galante, A. Schultz, R. L. DeWald

Forces acting in the Milwaukee brace on patients undergoing treatment for idiopathic scoliosis. *Ibid.*, 3:498-506.

With M. G. Schiller

Isolated dislocation of the medial cuneiform bone: a rare injury of the tarsus. *The Journal of Bone and Joint Surgery*, 52-A, 8:1632-36.

With J. A. Sevastikoglou, S.-O. Hjertquist, E. Bergquist

Vitamin D and skeletal metabolism: experimental studies in the rat. *Acta Orthopaedica Scandinavica*, Supplementum no. 136, pp. 1-85.

With K. E. Kuettnner, L. W. Soble, R. L. Croxen, M. Passovoy, R. Eisenstein

Lysozyme in epiphyseal cartilage, II: the effect of egg white lysozyme on mouse embryonic femurs in organ cultures. *The Journal of Cell Biology*, 44, 2:329-39.

With H. L. Barash, J. O. Galante, C. N. Lambert

Spondylolisthesis and tight hamstrings. *The Journal of Bone and Joint Surgery*, 52-A, 7:1319-28.

With J. O. Galante, W. Rostoker

Physical properties of trabecular bone. *Calcified Tissue Research*, 5:236-46.

SCHILLER, MARTIN G., Instructor

Articles

With R. D. Ray

Isolated dislocation of the medial cuneiform bone: a rare injury of the tarsus. *The Journal of Bone and Joint Surgery*, 52-A, 8:1632-36.

SHAPIRO, JULES S., Clinical Assistant
Professor

Articles

A new factor in the etiology of ulnar drift. *Clinical Orthopaedics and Related Research*, 68:32-43.

SIEGEL, IRWIN M., Clinical Assistant
Professor

Articles

Enzymes in muscle disease. In *Diagnostic Enzymology*, ed. by Coodley, Lea & Febiger, Philadelphia, pp. 257-72.

Fractures of the hand. *Illinois Medical Journal*, 4, 4:360-65.

OTOLARYNGOLOGY

ANDREWS, ALBERT H., JR., Professor of
Bronchoesophagology and Head of
Department

Articles

Surgery of benign tumors of larynx. *Otolaryngologic Clinics of North America*, 3, 3: 517-27.

With D. D. Caldarelli, A. J. Derbyshire

Esophageal motility studies in globus sensation. *Annals of Otolaryngology, Rhinology and Laryngology*, 79, 6:1098-1100.

HOLINGER, PAUL H., Professor of
Bronchoesophagology

Articles

Disorders of the larynx. In *Current pediatric therapy*, ed. by Gellis and Kagan, W. B. Saunders Co., Philadelphia, pp. 165-68.

Foreign bodies in the air and food passages. *Ibid.*, pp. 168-70.

With R. A. Dieter, Jr., D. G. Maurizi

Angiofibromatous polyp of the pharynx. *American Journal of Diseases in Children*, 119:91-93.

With R. A. Dieter, Jr., W. L. Riker

Pedunculated esophageal hamartoma in a child. *Journal of Thoracic and Cardiovascular Surgery*, 59, 6:851-54.

With J. A. Schild, L. Weprin

Pediatric laryngology. *Otolaryngologic Clinics of North America*, 3, 3:625-37.

LEDERER, FRANCIS L., Professor Emeritus

Books

With R. A. Buckingham, P. H. Holinger,

W. Becker, G. W. Korting

Atlas of otorhinolaryngology (rev. ed.). W. B. Saunders Co., Philadelphia, 315 pp.

Articles

Otologic creativity. *Annals of Otolaryngology and Laryngology*, 79:694-98.

Otologic creativity: presidential address. *Transactions of the American Otolaryngological Society*, 58:15-19.

With B. J. Soboroff

Medical problems related to diseases of the larynx. *Otolaryngologic Clinics of North America*, 3, 3:599-608.

With L. T. Tenta

The laryngeal examination. *Hospital Medicine*, 6:125-46.

SCHILD, JOYCE A., Clinical Assistant
Professor

Articles

With P. H. Holinger, L. Weprin

Pediatric laryngology. *Otolaryngologic Clinics of North America*, 3, 3:625-37.

SIEDENTOP, KARL H., Clinical Associate
Professor

Articles

Eustachian tube irradiation with Strontium 90. *A.M.A. Archives of Otolaryngology*, 92: 71-75.

SKOLNIK, EMANUEL M., Professor

Articles

With M. N. Saberman, R. G. Stagman,

M. E. Tardy, Jr., L. T. Tenta

Carcinoma of the anterior floor of the mouth. *Transactions of the American Academy of Ophthalmology and Otolaryngology*, 74: 755-66.

With M. E. Tardy, Jr.

Laryngeal stenosis. *Otolaryngologic Clinics of North America*, 3, 3:569-80.

Rehabilitation following anterior jaw resection. *Laryngoscope*, 80:1580-90.

With R. J. Levin, B. J. Soboroff,

M. E. Tardy, Jr., L. T. Tenta

Preoperative irradiation of larynx: analysis of serial sections. *Annals of Otolaryngology, Rhinology and Laryngology*, 79:1049-56.

SOBOROFF, BURTON J., Professor**Articles**

With *F. L. Lederer*

Medical problems related to diseases of the larynx. *Otolaryngologic Clinics of North America*, 3, 3:599-608.

With *R. J. Levin, E. M. Skolnik, M. E. Tardy, Jr., L. T. Tenta*

Preoperative irradiation of larynx: analysis of serial sections. *Annals of Otolaryngology and Rhinology*, 79:1049-56.

TARDY, M. EUGENE, JR., Assistant Professor

Articles

With *L. T. Tenta*

Thyroid disease: surgical concepts. *Transactions of American Academy of Ophthalmology and Otolaryngology*, 74:306-10.

Laryngeal photography and television. *Otolaryngologic Clinics of North America*, 3, 3:483-92.

With *E. M. Skolnik, M. N. Saberman, R. G. Stagman, L. T. Tenta*

Carcinoma of the anterior floor of the mouth. *Transactions of American Academy of Ophthalmology and Otolaryngology*, 74:755-66.

With *E. M. Skolnik*

Laryngeal stenosis. *Ibid.*, pp. 569-80.

Rehabilitation following anterior jaw resection. *Laryngoscope*, 80:1580-90.

With *R. J. Levin, E. M. Skolnik, B. J. Soboroff, L. T. Tenta*

Preoperative irradiation of larynx: analysis of serial sections. *Annals of Otolaryngology and Rhinology*, 79:1049-56.

TENTA, LOUIS T., Associate Professor

Articles

With *M. E. Tardy, Jr.*

Thyroid disease: surgical concepts. *Transactions of American Academy of Ophthalmology and Otolaryngology*, 74:306-10.

Laryngeal photography and television. *Otolaryngologic Clinics of North America*, 3, 3:483-92.

With *E. M. Skolnik, M. N. Saberman, R. G. Stagman, M. E. Tardy, Jr.*

Carcinoma of the anterior floor of the mouth. *Transactions of American Academy of Ophthalmology and Otolaryngology*, 74:755-66.

TOROK, NICHOLAS, Professor

Articles

Progress and future in nystagmography. In *Vestibular function on earth and space*, ed. by *Stahle*, Pergamon Press, Oxford and New York, pp. 201-8.

The hyperactive vestibular response. *Acta Otolaryngologica*, 70:153-62.

A new parameter of vestibular sensitivity. *Annals of Otolaryngology, Rhinology and Laryngology*, 79, 4:808-17.

With *D. D. Johnson*

Habituation of nystagmus and sensation of motion after rotation. *Acta Otolaryngologica*, 69:206-15.

PATHOLOGY

CATCHPOLE, HUBERT R., Research Professor

Articles

With *M. B. Engel*

Thermal effects on birefringence of tendon

with aging. *Proceedings of the Society for Experimental Biology and Medicine*, 133:260-63.

CHANGUS, GEORGE W., Clinical Professor

Articles

Natural history of rhinosporidiosis. In *Proceedings, seventh international congress of electron microscopy*, pp. 875-76.

ECKNER, FRIEDRICH A. O., Associate Professor

Articles

With *M. Lev, R. R. Liberthson, R. R. Joseph, C. E. Seten, R. D. Kunske*

The pathologic anatomy of Ebstein's disease. *American Medical Association Archives of Pathology*, 90, 4:334-43.

With *M. Lev, R. R. Liberthson, J. G. Golden, R. A. Arcilla, R. A. Miller*

Pathologic anatomy of mesocardia. *Circulation* 41 and 42, supplement 3:178.

With *R. R. Liberthson, M. Lev*

Pathologic anatomy of isolated levocardia. *Ibid.*, p. 179.

With *R. R. Liberthson, R. A. Arcilla, M. Lev*

Straddling and displaced atrioventricular orifices. *Circulation*, 40, supplement 3:133.

LEV, MAURICE, Lecturer

Articles

With *D. E. Fixler, R. Cole, M. H. Paul, D. Girod*

Familial occurrence of contracted endocardial fibroelastosis. *American Journal of Cardiology*, 26:208-13.

With *J. Silverman, F. M. Fitzmaurice, M. H. Paul, D. E. Cassels, R. A. Miller*

Lack of connection between the atria and the atrioventricular node with congenital atrioventricular block. *Circulation*, 40, supplement 3:31.

With *R. R. Liberthson, R. R. Joseph, E. A. O. Eckner*

Straddling and displaced atrioventricular orifices. *Ibid.*, p. 33.

With *R. R. Liberthson, R. R. Joseph, C. E. Seten, R. D. Kunske, and others*

The pathologic anatomy of Ebstein's disease. *American Medical Association Archives of Pathology*, 90, 4:334-43.

With *S. G. Kinare, A. Pick*

The pathogenesis of atrioventricular block in coronary disease. *Circulation*, 42, 3:409-25.

With *R. R. Liberthson, J. G. Golden, F. A. O. Eckner, R. A. Arcilla, R. A. Miller*

Pathologic anatomy of mesocardia. *Ibid.*, 41 and 42, supplement 3:78.

With *M. H. Paul*

Interruption of the atrioventricular bundle in congenital atrioventricular block. *Ibid.*, p. 78.

With *R. R. Liberthson, F. A. O. Eckner*

Pathologic anatomy of isolated levocardia. *Ibid.*, p. 79.

Bulletins and Technical Reports

Relationship of the development of the ventricular septum to the position of ventricular septal defects. *Chest*, 58, 5:451.

MCGREW, ELIZABETH A., Professor

Books

With *H. Medak, P. Burlakow, R. W. Tiecke*

Atlas of oral cytology. Public Health Service, Washington, D.C., 133 pp.

Articles

With H. Medak, P. Burlakow, R. Tiecke
The cytology of vesicular conditions affecting the oral mucosa: pamphigus vulgaris. *Acta Cytologica*, 14, 1:11-21.

NERENBERG, SAMUEL T., Professor

Articles

Use of immunoelectrophoresis and immuno diffusion in clinical medicine. A critical review. *CRC Critical Reviews*, 1:303-50.

With G. Pogojeff

Large-scale, rapid screening of hospitalized patients by nonautomated laboratory tests. *Multiphasic Health*, 1:49-59.

OZZELLO, LUCIANO, Clinical Associate Professor

Articles

Epithelial-stromal junction of normal and dysplastic mammary glands. *Cancer*, 25, 3:586-600.

With P. Sanpitak

Epithelial-stromal junction of intraductal carcinoma of the breast. *Ibid.*, 26, 6:1186-98.

PIRANI, CONRAD L., Professor

Articles

With L. Salinas-Madrigal, V. E. Pollak
Glomerular and vascular, "insudative" lesions of diabetic nephropathy: electron microscopic studies. *American Journal of Pathology*, 59:369-98.

With H. Zarnow

Sodium depletion proteinuria: experimental and electronmicroscopic studies. *Proceedings of the Society of Experimental Biology and Medicine*, 135:275-84.

RESSLER, NEWTON, Associate Professor

Articles

With S. Lee
Tissue-characteristic forms of glyceraldehyde 3-phosphate dehydrogenase. *Biochemistry*, 119:85-88.

RING, ALVIN M., Clinical Associate Professor

Articles

Isolated regional enteritis of the appendix. *Internal Surgery*, 54, 4:290-94.

With A. Rosas-Urbe, H. Rappaport

Metastasizing retroperitoneal fibroxanthoma (malignant fibroxanthoma). *Cancer*, 26, 4: 827-31.

Doctor, did you mean that test? (Incorrect laboratory requests leading to finding of unsuspected illness). *Medical Laboratory Observer*, 1970:37-38.

SMITH, ROGER D., Associate Professor

Articles

With O. Jonasson, E. A. Lichter, W. H. Hamly, C. L. Gantt, L. Nyhus
Donor selection for renal transplantation based on genotypic analysis of HL-A in a family. *Archives of Surgery*, 101:219-25.

With R. L. Northrop

Morphology of rubella virus. *International Virology*, 1:237-39.

With L. G. Wolfe, H. Marcznko, R. Robin, F. Deinhardt

Viral oncogenesis in non-human primates. *Proceedings, second conference of experi-*

mental medicine and surgery in primates, 181-98.

STERN, KURT, Professor Emeritus

Articles

Effects of neonatal exposure to isophilic and/or heterophilic antigens on immune responses of adult rats. *Vox Sanguinis*, 18:481-91.

SWERDLOW, MARTIN A., Professor

Reviews

Morphology of the liver, by Hans Elias and Joseph Sherrick. *Journal of the American Medical Association*, 211, 7:1192.

Textbook of pathology, by William Boyd. *Ibid.*, 213, 5:878.

VYE, MALCOLM V., Assistant Professor

Articles

With D. C. Aberfeld, T. Namba, D. Grob
Condroydystrophic myotonia: report of two cases. *Archives of Neurology*, 22:455.

With D. A. Fischman

The morphological alteration of particulate glycogen by *En Bloc* staining with uranyl acetate. *Journal of Ultrastructure Research*, 33:278.

WOLFE, LAUREN G., Assistant Professor

Articles

With P. Tischendorf
Extramedullary hematopoiesis in marmosets following blood loss. *Laboratory Animal Care*, 20:697-702.

With U. Junge, J. Hoekstra, F. Deinhardt
Microtechnique for quantitative evaluation of *in vitro* lymphocyte transformation. *Clinical and Experimental Immunology*, 7:431-37.

With F. Deinhardt, A. W. Holmes

Hepatitis in marmosets. *Journal of Infectious Diseases*, 121:351-52.

With F. Deinhardt, G. H. Theilen, S. P. Snyder

ST-feline fibrosarcoma virus: induction of tumors in marmoset monkeys. *Science*, 167: 881-919.

With F. Deinhardt, A. W. Holmes, U. Junge
Transmission of viral hepatitis to nonhuman primates. *Vox Sanguinis*, 19:261-69.

WONG, RUTH L., Professor

Articles

Exploring computer usage in anatomic pathology. *Proceedings of the Institute of Medicine of Chicago*, 28, 3:115.

DOCTORAL DISSERTATIONS

Alvares, Olav F. (J. Meyer, Adviser), Studies on acid phosphatase, cell proliferation and dry weight in zinc deficient rat oral epithelium.

Rubinstein, A. S. (F. E. Trobaugh, Jr., Adviser), Ultrastructural changes in frozen hematopoietic tissue.

PEDIATRICS

BEHRMAN, RICHARD E., Professor

Articles

With D. E. Fisher, J. B. Paton, J. Keller
In utero disease and the newborn infant. In *Advances in pediatrics*, ed. by Schulman, Year Book Medical Publishers, Chicago, pp. 17-55.

- The use of assisted ventilation in the therapy of hyaline membrane disease. *Journal of Pediatrics*, 76, 2:169.
- With S. P. Gotoff
Neonatal septicemia. *Ibid.*, 1:142.
- With D. E. Fisher
Phenobarbital for neonatal jaundice. *Ibid.*, 6: 945-48.
- With A. E. Seeds, J. Bissonnette, H. Lim
Changes in rhesus monkey fetal and maternal acid-base measurements following amniotic fluid bicarbonate or tris infusions. *American Journal of Obstetrics and Gynecology*, 107, 2:232-43.
- With S. G. Babson, R. Lessel
Fetal growth liveborn birthweights for gestational age of white middle class infants. *Pediatrics*, 45, 6:937.
- With M. Lees, E. Peterson, C. W. de Lannoy, A. E. Seeds
Fetal circulation in the primate and intra-uterine distress. *American Journal of Obstetrics and Gynecology*, 108, 6:956-69.
- With D. A. Patel, R. S. Pildes
Failure of phototherapy to reduce serum bilirubin in some infants. *Journal of Pediatrics*, 77, 6:1048.
- With H. S. Maurer, G. R. Honig
Dependence of the oxygen affinity of blood on the presence of foetal or adult haemoglobin. *Nature*, 227, 5256:388-90.
- BERMAN, JULIAN L., Lecturer
Articles
With D. Y. Hsia
Nutritional psychopharmacology: inherited metabolic disorders and mental retardation. In *Principles of psychopharmacology*, ed. by Clark and del Giudice, Academic Press, New York, pp. 355-71.
Sex ratio in hyperphenylalaninemia. *New England Journal of Medicine*, 283, 9:491.
- With R. Ford
Intelligence quotients and intelligence loss in patients with phenylketonuria and some variant states. *Journal of Pediatrics*, 77, 5:764-70.
- GOTOFF, SAMUEL P., Associate Professor of Pediatrics and Microbiology
Articles
Lymphocytes in immunobiology. In *Advances in pediatrics*, ed. by Schulman, Year Book Medical Publishers, Chicago, pp. 139-83.
Brucellosis. In *Current pediatric therapy*, ed. by Gellis and Kagan, W. B. Saunders Co., Philadelphia, p. 834.
Tularemia. *Ibid.*, p. 835.
- With R. E. Behrman
Neonatal septicemia. *Journal of Pediatrics*, 76, 1:142.
- With S. Lolekha, S. Dray
Macrophage aggregation in vitro: a correlate of delayed hypersensitivity. *Journal of Immunology*, 104, 2:296.
- With I. F. Vizral, T. J. Malecki
Macrophage aggregation in vitro: a model for transplantation immunity. *Transplantation*, 10, 5:433.
- With R. C. Balagtas, S. Levin, K. E. Nelson
Secondary and prolonged fevers in bacterial meningitis. *Journal of Pediatrics*, 77, 6:957.
- GROSSMAN, HERBERT J., Professor
Articles
Therapy of childhood seizures. In *Current psychiatric therapies*, ed. by Masserman, Grune and Stratton, New York, pp. 11-25.
- HONIG, GEORGE R., Associate Professor
Articles
With R. E. Behrman, H. S. Maurer
Dependence of the oxygen affinity of blood on the presence of foetal or adult haemoglobin. *Nature*, 227, 5256:388-90.
- LEVITSKY, LYNNE L., Assistant Professor
Articles
With E. Trias, M. S. Grossman
Spontaneous thyrotoxicosis in infancy. *Pediatrics*, 46, 4:627-29.
- LIS, EDWARD F., Professor
Articles
Implications of screening techniques for comprehensive care. In *Proceedings, bi-regional institute on earlier recognition of handicapping conditions in childhood*, ed. by Oglesby and Sterling, University of California, Berkeley, pp. 115-23.
- MAURER, HELEN S., Assistant Professor
Articles
With R. E. Behrman, G. R. Honig
Dependence of the oxygen affinity of blood on the presence of foetal or adult haemoglobin. *Nature*, 227, 5256:388-90.
- MENDELSON, ROBERT S., Associate Professor
See Preventive Medicine.
- MOORE, EDDIE S., Assistant Professor
Articles
With J. V. Wander, O. Jonasson
Internal arteriovenous fistulae for dialysis in children. *Journal of Pediatric Surgery*, 5, 5:533-38.
With B. P. Fine, C. M. Edelman, Jr.
Catheterization of the urinary bladder in young female animals. *Biology Neonatorum*, 116:256-59.
- PATON, JOHN B., Research Associate
Articles
With R. E. Behrman, D. E. Fisher, J. Keller
In utero disease and the newborn infant. In *Advances in pediatrics*, ed. by Schulman, Year Book Medical Publishers, Chicago, pp. 17-55.
- PILDES, ROSITA S., Associate Professor
Articles
With R. E. Behrman, D. A. Patel
Failure of phototherapy to reduce serum bilirubin in some infants. *Journal of Pediatrics*, 77, 6:1048.
- ROSENTHAL, IRA M., Professor
Articles
Disorders of purine metabolism. In *Current pediatric therapy*, ed. by Gellis and Kagan, W. B. Saunders Co., Philadelphia, pp. 530-32.
With R. Schmid
Disorders of porphyrin and hemoglobin metabolism. *Ibid.*, pp. 528-30.
With N. Javadpour, E. Chelouhy, L. Moncada, I. M. Bush
Hypertension in a child caused by a multicystic kidney. *Journal of Urology*, 104, 6: 918-21.

SCHULMAN, IRVING, Professor and Head of Department

Articles

With C. F. Abildgaard, C. A. Johnson, A. Lindley

Immunosuppressive therapy in the management of acquired inhibitors of factor VIII in hemophilia. In *Hemophilia and new hemorrhagic states*, ed. by Brinkhous, University of North Carolina Press, New York, p. 164.

SEELER, RUTH A., Assistant Professor

Books

With J. Raffensperger, R. Moncado

The acute abdomen in infancy and childhood. Lippincott, Philadelphia, 130 pp.

Articles

Vitamin K deficiency. In *Current therapy*, ed. by Conn, W. B. Saunders, Philadelphia, pp. 386-87.

Therapy for AHF and PTC hemophilia (medical progress). *Illinois Medical Journal*, 137:518-21, 598-602.

With M. E. Alpert

Alpha fetoprotein in embryonal hepatoblastoma. *Journal of Pediatrics*, 77, 6:1058-60.

With R. Kapadia, R. Moncado

Nonsurgical management of thrombosis of bilateral renal veins and inferior vena cava in a newborn infant. *Clinical Pediatrics*, 9, 9:543-47.

SOYKA, LESTER F., Associate Professor

See Pharmacology.

SPAETH, RALPH, Clinical Professor

Articles

Tetanus. In *Tice's practice of medicine*, ed. by Hoeber, Harper and Row, Hagerstown, Maryland, 24 pp.

Tetanus. In *Current pediatric therapy*, ed. by Gellis and Kagan, W. B. Saunders Co., Philadelphia, pp. 820-28.

PEDODONTICS

ANDERSON, ALLEN W., Associate Professor and Head of Department

Articles

With M. Massler

Periapical tissue reactions following root amputation in immediate tooth replants. *Israel Journal of Dental Medicine*, 19:1-8.

MASSLER, MAURY, Associate Dean of Postgraduate and Teacher Education and Professor of Pedodontics

Articles

Biologic considerations in the selection and use of restorative materials. *Journal of the Dental Association of South Africa*, 25, 6: 192-204.

Teen-age cariology. *Ibid.*, 7:229-41.

With A. W. Anderson

Periapical tissue reactions following root amputation in immediate tooth replants. *Israel Journal of Dental Medicine*, 19:1-8.

PEORIA SCHOOL OF MEDICINE

COTSONAS, NICHOLAS J., Dean

Articles

With J. S. Gonnella, M. J. Goran, J. W. Williamson

Evaluation of patient care: an approach. *Jour-*

nal of the American Medical Association, 214:2040-43.

HERRMANN, ERNEST C., JR., Associate Professor

Books Edited

With W. R. Stinebring

Second conference on antiviral substances. New York Academy of Sciences, New York, 844 pp.

Articles

The tragedy of viral diagnosis. *Postgraduate Medical Journal*, 46:545-50.

An overview of the field of antiviral drugs. *Symposia papers, 5th national meeting of Pharmaceutical Association, Academy of Pharmaceutical Sciences*, pp. 2-10.

With R. E. Hoekstra, E. J. O'Connell

Virus infections in children: clinical comparison of overlapping outbreaks of influenza A/Hong Kong/68 and respiratory syncytial virus infections. *American Journal of Diseases of Children*, 120:14-16.

With S. A. Muller

Association of stomatitis and paronychia due to herpes simplex virus. *Archives of Dermatology*, 101:396-402.

With D. A. Person, P. J. Sheridan

The sensitivity of herpes simplex virus types 1 and 2 to 5-iododeoxyuridine (5-IDU) and 9-(Beta-D-arabinofuranosyl) adenine. *Infection and Immunity*, 2:815-20.

With M. I. Lindsay, Jr., A. L. Brown, Jr., G. R. Morrow, Jr.

Clinical, microbiological and pathological manifestations of 127 cases of Hong Kong influenza. *Journal of the American Medical Association*, 214:1825-32.

With K. A. Hable

Group B coxsackieviruses as respiratory viruses. *Mayo Clinic Proceedings*, 45:170-76.

Experiences in laboratory diagnosis of parainfluenza viruses in routine medical practice. *Ibid.*, pp. 177-88.

With D. R. Person

Experiences in laboratory diagnosis of rhinovirus infections in routine medical practice. *Ibid.*, pp. 517-26.

PERIODONTICS

BARRINGTON, ERWIN P., Associate Professor

Articles

With J. Meyer, O. Alvares

Volume and dry weight of cells in rat oral epithelia. *Growth*, 34, 2:57-73.

KLAVAN, BENNETT, Professor

Articles

The replaced graft. *Journal of Periodontology*, 41, 7:406-11.

PHARMACEUTICAL CHEMISTRY

BARNOTHY, MADELEINE F., Professor

Articles

With J. M. Barnothy

Magnetic fields and number of blood platelets. *Nature*, 225, 5338:1146-47.

Quasars behind clusters of galaxies. *Ibid.*, 226, 5234:335-37.

BAUER, LUDWIG, Professor

Articles

With J. P. Shoffner, C. L. Bell

The structure of the cations from 2- and 4-

pyrimidones (1). *Journal of Heterocyclic Chemistry*, 7:479-90.

The structure of the cations from 2- and 4-pyrimidones and related pyridines (1, 2). *Ibid.*, pp. 479-85.

BELL, CHARLES L., Professor

Articles

With J. P. Shoffner, L. Bauer

The structure of the cations from 2- and 4-pyridones and related pyridines. *Journal of Heterocyclic Chemistry*, 7:479-85.

The structure of the cations from 2- and 4-pyrimidones. *Ibid.*, pp. 487-90.

With S. S. Danyluk

Solvent dependence of the chemical shifts and coupling constants of 1, 2-dichlorofluorethylenes. *Journal of Molecular Spectroscopy*, 35:376-92.

GEARIEN, JAMES E., Professor

Articles

Cholinergics and anticholinesterase. In *Medical chemistry*, ed. by Burger, John Wiley, New York, pp. 1296-1313.

JOSEPH, NORMAN R., Associate Professor

Articles

With H. R. Catchpole, M. B. Engel

Extracellular electrolyte balance and aging. *Gerontologia*, 14:32-52.

VON SMOLINSKI, ALFRED, Assistant

Professor

Articles

Chemistry. In *The world book: year book*, ed. by Zeleny, Field Enterprises Education Corp., Chicago, p. 2.

DOCTORAL DISSERTATIONS

King, Kenneth F. (L. Bauer, Adviser), Deoxydytative substitution of pyridine N-oxides by thiophenols.

Letton, James C. (J. E. Gearien, Adviser), Synthesis of phenyl-2-aminocyclohexyl ketones.

Malone, Hyey P. (R. Daniels, Adviser), The synthesis and conformational analysis of 1,5-diazabicyclo 3.1.0 hexanes.

Mikrut, Bernard A. (L. Bauer, Adviser), Reactions of 4-alkylpyridine 1-oxides with mercaptans and acid anhydrides.

Sheinin, Eric B. (L. Bauer, Adviser), Diels-alder addition of benzyne to N-substituted 2-pyridones.

Sternson, Larry A. (D. A. Coviello, Adviser), O-alkyl oximes: preliminary studies directed toward the preparation of potential antimalarials.

PHARMACOGNOSY AND PHARMACOLOGY

CHU, BANG-LING W., Instructor in

Pharmacognosy

Articles

With E. S. Mika

Use of tetraphenylethylene in quantitative GLC of hyoscyamine and scopolamine. *Journal of Pharmaceutical Sciences*, 59:1508-10.

CRANE, FRANK A., Professor of

Pharmacognosy and Director, Drug and Horticultural Experiment Station

Articles

With M. J. Solomon, R. LaRaus, B. Solomon, W. Clark

"Simulation": a teaching tool in commercial pharmacognosy. *American Journal of Pharmaceutical Education*, 34:229-33.

With M. J. Solomon

Observations of some phenotypic traits in *Datura* species and strains. *Transactions-Illinois State Academy of Science*, 63:67-77.

Influences of heredity and environment on alkaloidal phenotypes in Solanaceae. *Journal of Pharmaceutical Sciences*, 59:1670-72.

Critical evaluation of extraction procedures in determination of atropine and scopolamine from *Datura* powder. *Ibid.*, pp. 1680-82.

With J. W. Fairbairn

Alkaloids in the germinating seedling of poppy. *Transactions-Illinois State Academy of Science*, 63:86-92.

With K. Mohammed, M. I. Blake, R. A. Uphaus, J. J. Katz

Effects of deuteration on alkaloid production in *Atropa belladonna*. *Lloydia*, 33:11-14.

FARNSWORTH, NORMAN R., Professor of Pharmacognosy and Head, Department of Pharmacognosy and Pharmacology

Articles

Immunity and resistance to infection. *Tile and Till*, 56:2-6.

Immunizing biologicals: the vaccines. *Ibid.*, pp. 20-24.

Immunizing biologicals: the virus vaccines. *Ibid.*, pp. 52-57.

Immunizing biologicals: toxins, toxoids, anti-toxins, and immune serums. *Ibid.*, pp. 62-65.

With A. B. Segelman, H. H. S. Fong, D. J. Abraham

Catharanthus alkaloids, XXIV: isolation and synthesis of 3, 4-dimethoxyphenylacetamide from *Catharanthus lanceus*. *Lloydia*, 33: 25-29.

With H.-K. Kim, H. H. S. Fong, R. N. Blomster, G. J. Persinos

Biological and phytochemical evaluation of plants, VII: isolation and identification of a tumor inhibitor from *Wallenia yunquensis* (Myrsinaceae) as myrsine-saponin. *Ibid.*, pp. 30-35.

With M. Tin-Wa, H. H. S. Fong, J. Trojáněk
Catharanthus alkaloids, XXV: isolation of leurosine and ursolic acid from *C. pusillus*. *Ibid.*, pp. 261-63.

Biological and phytochemical evaluation of plants, VIII: isolation of a new alkaloid from *Sanguinaria canadensis* (Papaveraceae). *Ibid.*, pp. 267-69.

Synthesis of stigmaterol- α -L-arabinopyranoside. *Ibid.*, pp. 401-2.

With M. Tin-Wa, H. H. S. Fong, R. N. Blomster, J. Trojáněk, and others

Biological and phytochemical evaluation of plants, IX: antitumor activity of *Maytenus senegalensis* (Celastraceae) and a preliminary phytochemical investigation. *Ibid.*, pp. 355-64.

With H. Wagner, H. Danninger, O. Seligmann, M. Nogradi, L. Farkas

Synthese von Glucuroniden der Flavonoidreihe, II: Isolierung von Kämpferol-3- β -D-glucuronid aus *Euphorbia esula* L. und seine Synthese. *Chemische Berichte*, 103: 3678-83.

With D. J. Abraham, S. Takagi,
R. D. Rosenstein, R. Shiono,
and others

The structure of silydianin, an isomer of silymarin (silybin), by X-ray analysis. *Tetrahedron Letters*, 1970:2675-78.

With H.-K. Kim, R. N. Blomster,
H. H. S. Fong

Catharanthus alkaloids, XXIII: the isolation of tetrahydroalstonine, vindorosine, and ursolic acid from *C. trichophyllus*. *Economic Botany*, 24:42-46.

With A. B. Segelman

Penicillin stability to alcohols. *Journal of Pharmaceutical Sciences*, 59:726-28.

With A. B. Segelman, F. H. Pettler

Cannabis sativa L. (marihuana). A correction on a reported thin-layer chromatography data. *Pharmaceutisch Weekblad*, 105:1360-62.

FONG, HARRY H. S., Associate Professor of Pharmacognosy

Articles

With A. B. Segelman, N. R. Farnsworth,
D. J. Abraham

Catharanthus alkaloids, XXIV: isolation and synthesis of 3, 4-dimethoxyphenylacetamide from *Catharanthus lanceus*. *Lloydia*, 33:25-29.

With H.-K. Kim, N. R. Farnsworth,
R. M. Blomster, G. J. Persinos

Biological and phytochemical evaluation of plants, VII: isolation and identification of a tumor inhibitor from *Wallenia yunquensis* (Myrsinaceae) as myrsine-saponin. *Ibid.*, pp. 30-35.

With M. Tin-Wa, N. R. Farnsworth,
J. Trojaneek

Catharanthus alkaloids, XXV: isolation of leurosine and ursolic acid from *C. pusillus*. *Ibid.*, pp. 261-63.

Biological and phytochemical evaluation of plants, VIII: isolation of a new alkaloid from *Sanguinaria canadensis* (Papaveraceae). *Ibid.*, pp. 267-69.

Synthesis of stigmasterol- α -L-arabinopyranoside. *Ibid.*, pp. 401-2.

With M. Tin-Wa, N. R. Farnsworth,
R. N. Blomster, J. Trojaneek,
and others

Biological and phytochemical evaluation of plants, IX: antitumor activity of *Maytenus senegalensis* (Celastraceae) and a preliminary phytochemical investigation. *Ibid.*, pp. 355-64.

With H.-K. Kim, R. N. Blomster,
N. R. Farnsworth

Catharanthus alkaloids, XXIII: the isolation of tetrahydroalstonine, vindorosine, and ursolic acid from *C. trichophyllus*. *Economic Botany*, 24:42-46.

KRMPOTIC, EVA, Instructor in Zoology

Articles

With C. Fields, K. Szego

Medical cytogenetics, part V: family counseling. *The Chicago Medical School Quarterly*, 29:134-52.

With P. Justice, C. Ryan, D. Y. Hsia

Amylo-1, 6-glucosidase in human fibroblasts: studies in type III glycogen storage disease. *Biochemical and Biophysical Research Communications*, 39:301-6.

MIKA, EDWARD S., Professor of Pharmacognosy

Articles

With M. Cantoria, F. Orejana

The incorporation of $C^{14}O_2$ in the alkaloids of *Datura stramonium* L. *Philippines Nuclear Journal*, 2:117-21.

With B.-L. W. Chu

Use of tetraphenylethylene in quantitative GLC of hyoscyamine and scopolamine. *Journal of Pharmaceutical Sciences*, 59:1508-10.

MORRIS, RALPH W., Professor of Pharmacology

Articles

Coagulants and anti-coagulants. *PharmIndex*, 12, 1:5-8.

Narcotic and non-narcotic analgesics. *Ibid.*, 6:4-12.

Anesthetics: local and general. *Ibid.*, 8:5-8.

PHARMACOLOGY

ANDERSON, EDMUND G., Professor

Articles

With R. G. Baker

The effect of L-3,4-dihydroxyphenylalanine on spinal reflex activity. *The Journal of Pharmacology and Experimental Therapeutics*, 173, 1:212-23.

The antagonism of the effects of L-3,4-dihydroxyphenylalanine on spinal reflexes by adrenergic blocking agents. *Ibid.*, pp. 224-31.

With B. V. Clineschmidt

The blockade of bulbospinal inhibition by 5-hydroxytryptamine antagonists. *Experimental Brain Research*, 11, 2:175-86.

GREEN, RICHARD D., Assistant Professor

Articles

With M. Bristow, T. R. Sherrill

Analysis of beta receptor drug interaction in isolated rabbit atrium, aorta, stomach and trachea. *The Journal of Pharmacology and Experimental Therapeutics*, 171, 1:52-61.

With M. Bristow

A quantitative study of beta-adrenergic receptors in rabbit atria. *European Journal of Pharmacology*, 12, 1:120-23.

With J. Taylor

Evidence for an antagonistic action of diazoxide at alpha adrenergic receptors in rabbit aorta. *Ibid.*, 12, 3:385-87.

MAYNERT, EVERETT W., Professor

Articles

Metabolism and excretion of toxic agents. In *Laboratory diagnosis of diseases caused by toxic agents*, ed. by Sunderman and Sunderman, Warren H. Green, Inc., St. Louis, pp. 32-42.

With R. L. Foreman, T. Watabe

Epoxides as obligatory intermediates in the metabolism of olefins to glycols. *The Journal of Biological Chemistry*, 245, 20:5234-38.

SALAFSKY, BERNARD P., Associate Professor

Articles

With W. S. Mann

Enzymic and physiological studies on normal and disused developing fast and slow cat

muscles. *Journal of Physiology*, 208, 1:33-47.

Development of the differential response to succinylcholine in the fast- and slow-twitch skeletal muscle of the kitten. *Ibid.*, 210, 3:581-92.

With M. A. Prewitt

Enzymic and histochemical changes in fast and slow muscles after cross innervation. *American Journal of Physiology*, 218, 1:69-74.

SOYKA, LESTER F., Associate Professor

Articles

Isolation and characterization of reduced nicotinamide adenine dinucleotide phosphate: ferri cytochrome c oxidoreductase from human liver. *Biochemical Pharmacology*, 19, 1:945-50.

With H. H. Bode, J. D. Crawford, F. J. Flynn

Effectiveness of long-term human growth hormone therapy for short stature in children with growth hormone deficiency. *The Journal of Clinical Endocrinology and Metabolism*, 30, 1:1-14.

With L. Gyermek, P. Campbell

Mechanisms responsible for the sensitivity of newborn rats to pregnanolone. *The Journal of Pharmacology and Experimental Therapeutics*, 175, 2:276-82.

DOCTORAL DISSERTATIONS

Browning, Ronald A. (E. W. Maynert, Adviser), Relationship between brain monoamines and seizure susceptibility.

Doedens, David J. (E. W. Maynert, Adviser), Metabolic fate of the porphyrinogenic drug allylisopropylacetamide.

PHARMACY

BLAKE, MARTIN I., Professor and Head of Department

Articles

Graduate enrollment data, September, 1969, and graduate study in member colleges, 1970-1971. *American Journal of Pharmaceutical Education*, 34:108-27.

With A. K. Amirjehed

Analysis of solutions containing cyclamate and saccharin salt mixtures by nonaqueous titration. *Canadian Journal of Pharmaceutical Sciences*, 5:16-17.

With B. C. Carlstedt, H. L. Crespi, J. J. Katz

Biosynthesis of deuterated benzylpenicillins. I: solvent deuterium oxide participation. *Journal of Pharmaceutical Sciences*, 59: 1456-60.

With F. A. Crane, K. Mohammed, R. A. Uphaus, J. J. Katz

Effects of deuteration on alkaloid production in *Atropa belladonna*. *Lloydia*, 33: 11-14.

With S. M. Fang, H. J. Rhodes

Deuterium isotope effects in enzymatic transamination. *Biochimica et Biophysica Acta*, 212:201-7.

With J. Hunt

The analysis of *p*-aminosalicylic acid, its salts and dosage forms, by nonaqueous titration. *Journal of Pharmaceutical Sciences*, 59: 683-85.

Separation and determination of mixtures containing *p*-aminosalicylic acid and *m*-aminophenol. *Talanta* 17:876-78.

With K. Mohammed, D. A. Nona

Effect of heavy water on three high producing strains of *Penicillium chrysogenum*. *Journal of Pharmaceutical Sciences*, 59: 419-21.

ECANOW, BERNARD, Professor of Pharmacy

Articles

With B. Gold, R. Balagot

Observations on the relationship between one-hour and twenty-four hour erythrocyte sedimentation rates. *Laboratory Practice*, 19, 7:706-8.

With H. Takruri

Flocculation and polysorbate 80: sulfaquinidine suspensions. *Journal of Pharmaceutical Sciences*, 59, 12:1848.

MRTEK, ROBERT G., Associate Professor of Pharmacy

Articles

Evaluation of student accuracy in the laboratory, I: basic pharmaceutical techniques. *American Journal of Pharmaceutical Education*, 34, 2:214-18.

Evaluation of student accuracy in the laboratory, II: complex dilutions. *Ibid.*, pp. 219-22.

With P. A. Laskar

Synthesis and biological activity of deuterio-benzyl-d₇-penicillin. *Journal of Pharmaceutical Sciences*, 59, 12:1727-32.

With M. M. Weinstein

The philanthropic contributions of Chicago's first pharmacist: Philo Carpenter (1805-1886). *Pharmacy in History*, 12, 4:151-55.

RHODES, HAROLD J., Associate Professor of Pharmacy

Articles

With S.-M. Fang, M. I. Blake

Deuterium isotope effects in enzymatic transamination. *Biochimica et Biophysica Acta*, 212:281-87.

DOCTORAL DISSERTATIONS

Wood, George C. (B. Ecanow, Adviser), Associated macromolecular structures and gas sorption.

PHYSICAL MEDICINE AND REHABILITATION

ABRAMSON, DAVID I., Professor and Head of Department

Articles

Method of determining site of vasodilator agents using venous-occlusion plethysmography. In *Transactions of the International Congress on Clinical Evaluation of Testing Methods of Vasoactive Drug Effects*, Rome, 1970:212-18.

Importance of parallel studies of limb blood flow and oxygen uptake in the evaluation of vasoactive agents. *Ibid.*, pp. 347-55.

Diagnosis and management of peripheral vascular disorders. *Bulletin, Rockland County Medical Society*, 1970: September, 3-13.

With A. Hlavova, B. L. Rickert, J. F. Talso

Temperature effects on duration and amplitude of distal median nerve action potentials. *Journal of Applied Physiology*, 28: 808-12.

With A. Hlavova, B. Rickert, J. Talso, C. Schwab, L. S. W. Chu

Effect of ischemia on median and ulnar motor

nerve conduction velocity at various temperatures. *Archives Physical Medicine and Rehabilitation*, 51:463-70.

Effect of ischemia on latencies of the median nerve in the hand at various temperatures. *Ibid.*, pp. 51:471-80.

Reviews

Peripheral arterial disease, by D. E. Strandness, Jr. *Journal of American Medical Association*, 211:664.

Peripheral arterial diseases, by Robert L. Richards. *British Medical Journal*, 2:718.

SCHWAB, CONSTANCE, Assistant Professor

Articles

With D. I. Abramson, A. Hlavova, B. Rickert, J. Talso, J. Feldman, L. S. W. Chu

Effect of ischemia on median and ulnar motor nerve conduction velocity at various temperatures. *Archives Physical Medicine and Rehabilitation*, 51:463-70.

Effect of ischemia on latencies of the median nerve in the hand at various temperatures. *Ibid.*, 51:471-80.

PHYSIOLOGY

GREENBERG, RUVEN, Professor

Articles

Some specific physiologic mechanisms underlying the role of the lymphatics in absorption and distribution of drugs. In *Proceedings of the 4th International Congress on Pharmacology*, vol. 2, ed. by Eigenmann. L. B. Lippincott Co., Philadelphia, pp. 108-12.

MAROTTA, SABATH F., Professor

Articles

With C. Lau

Distribution and disappearance rates of infused cortisol in acute hyper- and hypocalcemic dogs. *Aerospace Medicine*, 41, 10:1153-57.

Effect of acute change in plasma calcium on adrenocortical secretory rates. *Calcium Tissue Research*, 6:220-26.

OMACHI, AKIRA, Professor

Articles

With C. B. Scott, M. S. Millman

Influence of prior storage on pyridine nucleotide metabolism of human erythrocytes incubated *in vitro*. *The Journal of Laboratory and Clinical Medicine*, 76, 4:668-77.

SABA, THOMAS M., Assistant Professor

Articles

Liver blood flow and intravascular colloid clearance alterations following partial hepatectomy. *Journal of Reticuloendothelial Society*, 7:406-17.

Mechanism mediating reticuloendothelial system depression after surgery. *Proceedings Society for Experimental Biological Medicine*, 133:1132-36.

Opsonin depletion following surgery. *Nature*, 228:781-83.

Physiology and physiopathology of the reticuloendothelial system. *Archives of Internal Medicine*, 126:1031-52.

With N. R. Di Luzio, J. C. Pisano

Evaluation of the mechanism of glucan-induced stimulation of the reticuloendothelial system. *Journal of Reticuloendothelial Society*, 7:731-42.

SCHWARTZ, NEENA B., Professor of Physiology and Assistant Dean for Faculty Affairs

Articles

Cybernetics of mammalian reproduction. 21. *Colloquium der Gesellschaft für biologische Chemie*, in Mosbach/Baden. Springer-Verlag, Berlin, pp. 97-111.

With M. W. Orsini

Uterine weight and pituitary LH content in the pseudopregnant hamster. *Journal of Reproductive Fertility*, 21:431-41.

With C. A. Ely

Comparison of effects of hypophysectomy, anti-serum to ovine LH, and ovariectomy on estrogen secretion during the rat estrous cycle. *Endocrinology*, 86, 6:1420-35.

With P. Walts

Role of ovulation in the regulation of the estrous cycle. *Federation Proceedings*, 29, 6:1907-12.

WOLF, A. V., Professor and Head of Department

Articles

With M. G. Brown

Concentrative properties of aqueous solutions: conversion tables. In *Handbook of chemistry and physics* (fifty-first ed.). Chemical Rubber Co., Cleveland, pp. D-176-D-215.

DOCTORAL DISSERTATIONS

Ackerman, Laurens V. (E. Gose, Adviser), Computer classification of radiographs and xerograms of the breast.

Bacus, James W. (E. Gose, Adviser), An automated classification of the peripheral blood leukocytes by means of digital image processing.

Kilen, Signe Marie. (W. V. Whitehorn, Adviser), Characteristics of the mechanical response and "active state" of rat cardiac muscle.

Klopf, Adam H. (E. Gose, Adviser), Design and simulation of locally and globally adaptive multilevel networks.

Knox, Francis S., III. (J. A. Michael, Adviser), Signal processing by type III (on/off) ganglion cells in the frog's visual system.

Magee, Winfred D. (R. C. Ingraham, Adviser), Relation of oxygen tension of proximal tubular urine to sodium reabsorption as evaluated by stop flow analysis.

Nirdlinger, Edwin L., II. (P. O. Bramante, Adviser), Metabolic changes and subcellular ionic shifts in the course of experimental cardiopathy of the rat.

Nudelman, Harvey B. (G. Agarwal, Adviser), Modulation of primary spindle afferents from the region of the red nucleus.

Philip, Elseworth L. (S. F. Marotta, Adviser), Association of cortisol with canine erythrocytes.

Smith, James D. (J. W. Dow, Adviser), Neural and muscular dynamics in the pupillary servomechanism.

PREVENTIVE MEDICINE AND COMMUNITY HEALTH

BROWN, MURRAY C., Clinical Professor

Articles

With C. A. Kallick, O. Brodnitsky, A. S. Dover

- A diphtheria outbreak in Chicago. *Illinois Medical Journal*, 137, 5:505.
- CARNOW, BERTRAM W., Associate Professor
- Articles
Air pollution and physician responsibility. *Archives of Internal Medicine*, 127:91-95.
The role of air pollution in chronic obstructive pulmonary disease. *Journal of the American Medical Association*, 214, 5:894-99.
- CUNNINGHAM, CLARK E., Associate Professor
- Books
With T. C. Doege, H. Na Bangxang
Studies of health problems and health behavior in Saraphi District, North Thailand. Faculty of Medicine, Chiang Mai, Thailand, 177 pp.
- Articles
Thai "injection doctors": antibiotic mediators. *Social Science and Medicine*, 4, 1:1-24.
- Reviews
Agriculture change and peasant choice in a Thai village, by Michael Moerman. *American Anthropologist*, 72, 3:673-74.
- DOEGE, THEODORE C., Associate Professor
- Books
With C. E. Cunningham, H. Na Bangxang
Studies of health problems and health behavior in Saraphi District, North Thailand. Faculty of Medicine, Chiang Mai, Thailand, 177 pp.
- Articles
With C. Yasmuth, T. O. Rowe, H. Na Bangxang
Ovarian suppressants in dogs: pilot study of an approach to rabies control. *Lancet*, 1: 1312-15.
With H. Na Bangxang, P. Desawdi, B. Pongprot
Epidemics, medical students and community health. *Journal Medical Association of Thailand*, 53, 7:498-506.
- GELPERIN, ABRAHAM, Associate Professor
- Books
With E. A. Gelperin
Emergency room journal reprint book. Medical Examination Publishing Co., Flushing, New York, 244 pp.
- Articles
With E. A. Gelperin
The inebriate in the emergency room. *American Journal of Nursing*, 70:1494.
- Bulletins and Technical Reports
Preliminary evaluation of administrative part of a medical research project concerned with the effect of humidification of military barracks on the incidence of upper respiratory infection of recruits, U.S. Army Research and Development Command, Washington, D.C., 18 pp.
- KLINGER, ALFRED D., Associate Professor
- Articles
With R. Mendelsohn, J. Albert
A reply to Dr. Herbert Pollack re: hunger USA. *American Journal of Clinical Nutrition*, 23, 6:677-83.

- LASHOF, JOYCE C., Professor
- Articles
Neighborhood health center: a model for organization of health services. *American College of Preventive Medicine Newsletter*, 12, 3:6-7.
With T. Tagliacozzo, K. Ima
Physician orientation and behavior: a study of outpatient clinic physicians. *Medical Care*, 8, 3:189-99.
With T. J. Cogan, I. R. Turner
Periodic evaluation of outpatients, part II. *Archives of Environmental Health*, 21: 192-99.
- LEPPER, MARK H., Professor
- Articles
Collection of specimens. In *Manual of clinical microbiology*, ed. by Lennette and Truant, American Society for Microbiology, Bethesda, Maryland, pp. 39-45.
With D. W. Bentley, J. J. Hahn
Transmission of chlamphenicol-resistant staphylococcus epidermidis: epidemiology and laboratory studies. *Journal of Infectious Diseases*, 122, 5:356-75.
- Bulletins and Technical Reports
Antimicrobials, infections, and the nurse-epidemiologist at Presbyterian-St. Luke's Hospital. *Rush-Presbyterian-St. Luke's Medical Center*, pp. 132-41.
- LEVY, LEO, Associate Professor
- Articles
With A. N. Herzog, E. J. Slotkin
Evaluation of statewide mental health programs: a systems approach. In *Introductory readings in community psychology and community mental health*, ed. by Cook, Holden-Day, San Francisco, pp. 254-64.
With L. Rowitz
The spatial distribution of treated mental disorders in Chicago. *Social Psychiatry*, 5, 1:1-11.
- Bulletins and Technical Reports
The planner-evaluator role in a state department of mental health statistics in mental health programs. Series E, Number 1. National Clearinghouse for Mental Health Information, Publication 5019, pp. 61-65.
- LICHTER, EDWARD A., Professor and head of Department
- Articles
With T. P. Conway, A. Gilman-Sachs, S. Dray
Presence of allotypic specificities of three loci, a, b and f, on individual molecules of rabbit colostral γ A immunoglobulin. *Journal of Immunology*, 105, 1:70-74.
With O. Jonasson, W. M. Hamby, R. D. Smith, and other
Donor selection for renal transplantation based on genotypic analysis of HL-A in a family. *Archives of Surgery*, 101, 2:219-25.
- LICHTER, EDWARD A., Professor and Head of Department
- Articles
With S. Dray, T. Conway
Genetic control of rabbit γ A immunoglobulins. In *Protides of the biological fluids: proceedings of the 17th colloquium, Bruges 1969*, Pergamon Press, Oxford and New York, pp. 131-36.

MEDELSON, ROBERT S., Associate Professor

Articles

Head start: success or failure? In *Disadvantaged child*, ed. by Hellmuth, Brunner and Mazel, New York, pp. 445-54.

Broadening the horizons of pediatric practice: problems of management of chronic diseases as exemplified by cystic fibrosis. *Clinical Pediatrics*, 9, 11:638-41.

The second-class status of the mental retardate in the United States. *Clinical Pediatrics*, 9, 9:506-7.

Teaching sex. *Child and Family*, 8, 1:67-76.

Head start: success or failure? *Clinical Pediatrics*, 8, 12:684-87.

With A. D. Klünger, J. Albert

A reply to Dr. Herbert Pollack re: hunger USA. *American Journal of Clinical Nutrition*, 23, 6:677-83.

NELSON, KENRAD E., Assistant Professor

Articles

With R. C. Balagtas, S. Levin, S. P. Gotoff
Secondary and prolonged fevers in bacterial meningitis. *The Journal of Pediatrics*, 77, 6:957-64.

With S. Levin, M. H. Lepper, H. W. Spies, R. Lawrence

Bacterial meningitis: a review of 1073 cases. *Annals of Internal Medicine*, 72:798.

ROTKIN, ISADORE D., Associate Professor

Articles

What can we believe: some observations on the design of clinical investigations. In *Frontiers of radiation therapy, vol. 5: the interrelationship of surgery and radiation therapy in the treatment of cancer*, ed. by Vaeth, Karger, Basel, Switzerland, pp. 72-92.

ROWITZ, LOUIS, Instructor

Articles

With L. Levy

Spatial distribution of treated mental disorders in Chicago. *Social Psychiatry*, 5, 1:1-11.

SHEKELLE, RICHARD B., Associate Professor

Articles

With J. Stamler, R. Stamler

Regional differences in prevalence, incidence and mortality from atherosclerotic ischaemic heart disease. In *Ischaemic heart disease*, ed. by deHaas, Hemker, and Snellen, Leiden University Press, Leiden, Netherlands, pp. 84-127.

With A. M. Ostfeld, B. Z. Lebovits, O. Paul

Personality traits and coronary heart disease: a re-examination of Ibrahim's hypothesis using longitudinal data. *Journal of Chronic Diseases*, 23, 1:33-38.

With H. M. Tufo, A. M. Ostfeld

Central nervous system dysfunction following open-heart surgery. *Journal of the American Medical Association*, 212, 8:1333-40.

WOLTER, JANET, Assistant Professor

Articles

Endocrinologic problems in surgery. In *Intensive care of the surgical patient*, ed. by Goldin, Year Book Medical Publishers, Chicago, pp. 396-410.

With C. P. Perlia, N. J. Gubisch, D. Edelberg, M. M. Dederick, S. G. Taylor III
Mithramycin treatment of hypercalcemia. *Cancer*, 25, 2:389-94.

PROSTHODONTICS

FLORES, SAMSON S., Professor

Articles

With R. A. Abelson

Immediate dentures simplified. *The Journal of the Academy of General Dentistry*, 18, 4: 24-28.

KOZAK, EDWARD J., Professor

Articles

Labial bar. *The Journal of the Academy of General Dentistry*, 18, 3:36-37.

UNDERWOOD, ROBERT B., Professor

Articles

Present state of the immediate denture. *The Journal of the Academy of General Dentistry*, 18, 2:17-19.

PSYCHIATRIC NURSING

GRACE, HELEN K., Assistant Professor

Articles

The work setting as a mental health system. *Occupational Health Nursing*, 17, 7:13-17.

LEVY, LEO, Associate Professor

See Preventive Medicine and Community Health.

STOKES, GERTRUDE A., Professor

Articles

Extending the role of the psychiatric-mental health nurse in community mental health: an overview. *Nursing Clinics of North America*, 5, 4:635-46.

PSYCHIATRY

BART, PAULINE B., Assistant Professor of Sociology

Articles

Mother Portnoy's complaints. *Trans-action*, 8, 1:69-74.

The role of the sociologist on public issues: an exercise in the sociology of knowledge. *The American Sociologist*, 5, 2:339-44.

Reviews

With S. Leffler

Women in the modern world, by Raphael Patai. *Sociology and Society Research*, 53, 3:543-45.

BERKSON, GERSHON B., Research Associate

Articles

Defective infants in a feral monkey group. *Folia Primatologica*, 12, 4:284-89.

With T. S. Brown

Orienting response of kittens with lesions of the superior colliculus. *Psychonomic Science*, 18, 3:153-54.

Orienting response of kittens with maturation defects. *Developmental Psychobiology*, 2, 4: 247-50.

BORGE, GEORGE F., Clinical Assistant Professor

Articles

With W. E. Bunney, Jr., D. L. Murphy, F. K. Goodwin

The switch process from depression to manic: relationship to drugs which alter brain amines. *The Lancet*, 7655:1022-27.

BOROWITZ, GENE H., Associate Professor

Articles

The therapeutic utilization of emotions and attitudes evoked in the caretakers of disturbed children. *British Journal of Medical Psychology*, 43:129-39.

With J. G. Hirsch, J. Costello

Individual differences in ghetto four-year-olds. *Archives of General Psychiatry*, 22:268-76.

Play behavior and competence in ghetto four-year-olds. *The Journal of Special Education*, 4, 2:215-21.

CHRISTOPOULOS, ANGELOS C., Clinical Instructor

Articles

Do you read the nurses' observation notes? *Journal of Psychiatric Nursing and Mental Health Services*, 8, 1:24-25.

COSTELLO, JOAN H., Assistant Professor of Psychology

Articles

With J. G. Hirsch

School achievers and underachievers in an urban ghetto. *The Elementary School Journal*, 71, 2:78-85.

With J. Hirsch, S. Thanaphum

Assessment of individual functioning through classroom observation. *Archives of General Psychiatry*, 23:16-19.

With G. H. Borowitz, J. G. Hirsch

Individual differences in ghetto four-year-olds. *Ibid.*, 22:268-76.

Play behavior and competence in ghetto four-year-olds. *The Journal of Special Education*, 4, 2:215-22.

DIESENHAUS, HERMAN I., Assistant Professor of Psychology

Articles

With M. Sabshin, R. Wilkerson

Dimensions of institutional racism in psychiatry. *American Journal of Psychiatry*, 127, 6:787-93.

FAWCETT, JAN A., Associate Professor of Psychiatry

Articles

With R. I. Yufit, B. Benzies, M. E. Fonte

Suicide potential and time perspective. *Archives of General Psychiatry*, 23, 2:158-63.

FLARSHEIM, ALFRED, Clinical Assistant Professor

Articles

The psychological meaning of the use of marijuana and LSD in one case. *The Psychoanalytic Forum*, 3:103-34.

Reviews

Children apart: autistic children and their families, by Lorna Wing. *British Journal of Medical Psychology*, 43, 4:401-5.

FUTTERMAN, EDWARD H., Associate Professor

Articles

With I. Hoffman

Shielding from awareness: an aspect of family adaptation to fatal illness in children. *Archives of Thanatology*, 2:23-24.

Transient school phobia in a leukemic child. *Journal of American Academy of Child Psychiatry*, 9, 3:477-94.

GARRON, DAVID C., Associate Professor of Psychology

Articles

Sex-linked, recessive inheritance of spatial and numerical abilities and Turner's syndrome. *Psychological Review*, 77, 2:147-52.

GEDO, JOHN E., Clinical Professor

Articles

The psychoanalyst and the literary hero: an interpretation. *Comprehensive Psychiatry*, 11, 2:174-81.

Thoughts on art in the age of Freud. *Journal of American Psychoanalytic Association*, 18, 1:219-45.

With A. Goldberg

Models of the mind in psychoanalysis. *Bulletin Philadelphia Association for Psychoanalysis*, 20, 1:74-79.

With E. Wolf

Die Ichthyosaurusbriefe. *Psyche*, 24, 10:785-97.

GIOVACCHINI, PETER L., Clinical Professor

Articles

Characterological problems: the need to be helped. *Archives of General Psychiatry*, 22, 3:245-51.

El encuadre psicoanalítico y el tratamiento del psicosis. *Revista de Psicoanálisis*, 27, 4:386-409.

Modern psychoanalysis and modern psychoanalysts, I. *Psychiatry and Social Science Review*, 4, 3:1-9.

Modern psychoanalysis and modern psychoanalysts, II. *Ibid.*, pp. 12-18.

Effects of adaptive and disruptive aspects of early object relationships upon later parental functioning. In *Parenthood*, ed. by Anthony and Benedek, Little, Brown and Co., Boston, pp. 525-51.

GREENE, BERNARD L., Clinical Associate Professor

Books

A clinical approach to marital problems. Charles C. Thomas, Springfield, Illinois, 445 pp.

GROSS, MORTIMER D., Clinical Assistant Professor

Articles

Some medical aspects of learning disabilities. *Journal of the Association for Study of Perception*, 5, 1:1-8.

HAGGARD, ERNEST A., Professor of Psychology

Articles

With A. As, C. M. Borgen

Social isolates and urbanites in perceptual isolation. *Journal of Abnormal Psychology*, 76, 1:1-9.

With A. von der Lippe

Isolated families in the mountains of Norway.

- In *International yearbook of child psychiatry*, vol. 1: *the child in his family*, ed. by Anthony and Koupernik, Wiley, New York, pp. 465-88.
- HIRSCH, JAY G.**, Clinical Associate Professor
- Articles**
 With J. Costello
 School achievers and underachievers in an urban ghetto. *The Elementary School Journal*, 71, 2:78-85.
 With S. Thanaphum, J. Costello
 Assessment of individual functioning through classroom observation. *Archives of General Psychiatry*, 23:16-19.
 With G. Borowitz, J. Costello
 Individual differences in ghetto four-year-olds. *Ibid.*, 22:268-76.
 Play behavior and competence in ghetto four-year-olds. *The Journal of Special Education*, 4, 2:215-21.
- HOFFMAN, IRWIN E.**, Instructor of Psychology
- Articles**
 With E. Futterman
 Shielding from awareness: an aspect of family adaptation to fatal illness in children. *Archives of Thanatology*, 2:23-24.
 Transient school phobia in a leukemic child. *Journal of the American Academy of Child Psychiatry*, 9, 3:477-94.
- JENKIN, NOEL S.**, Professor of Psychology
- Articles**
 Comment: science, sanity, and ESP. *American Psychologist*, 25:279-80.
 With M. Oberlander, K. Houlihan, J. Jackson
 Family size and birth order as determinants of scholastic aptitude and achievement in a sample of eighth graders. *Journal of Consulting and Clinical Psychology*, 34:19-21.
- JENKINS, ROBERT A.**, Assistant Professor of Psychology
- Articles**
 With A. Geisel, N. Jefferson, M. Berg, H. Necheles
 Contraction of smooth muscle with blood of patients with ulcers. *Journal of the American Medical Association*, 212, 9:1499-1501.
- KLUMPNER, GEORGE H.**, Clinical Assistant Professor
- Books Edited**
 A computer compiled cumulative index of the complete psychological works of Sigmund Freud. Chicago Processing Laboratory, Chicago, 282 pp.
- KRAUSE, MERTON S.**, Associate Professor of Psychology
- Articles**
 The three psychologies. *Philosophical Psychologist*, 4, 1:21-24.
 Use of social situations for research purposes. *American Psychologist*, 25, 8:748-53.
 With K. Houlihan, M. Oberlander, L. Carson
 Some motivational correlates of attitudes toward political participation. *Midwest Journal of Political Science*, 14, 3:383-91.
 With I. Howard
 Some comments on "techniques for estimating the source and direction of influence in panel data." *Psychological Bulletin*, 74, 3:219-24.
- LESSING, ELISE R.**, Assistant Professor of Psychology
- Articles**
 With S. Zagorin
 Factor structure and concurrent validity of a black power ideology scale. *Proceedings, 78th Annual Convention, American Psychiatric Association*, 5:353-54.
 With S. Zagorin, D. Nelson
 WISC subtest and IQ score correlates of father absence. *The Journal of Genetic Psychology*, 117:181-95.
- MAAS, JAMES W.**, Professor of Psychiatry
- Articles**
 A kinetic model for the study of the disposition of circulating norepinephrine. *Journal of Pharmacology and Experimental Therapeutics*, 174, 3:369-78.
 With H. Benensohn, D. Landis
 A kinetic study of the disposition of circulating norepinephrine in normal male subjects. *Ibid.*, pp. 381-87.
 With H. Dekermenjian
 An improved procedure of 3-methoxy-4-hydroxy-phenylglycol determination by gas-liquid chromatography. *Analytical Biochemistry*, 35, 1:113-22.
 A least squares approach to the solution of a non-linear model. *Journal of Pharmacology and Experimental Therapeutics*, 174, 3:378-80.
- MUSLIN, HYMAN L.**, Professor
- Articles**
 With P. Singer
 Evaluation and teaching of psychiatric interviewing. *Comprehensive Psychiatry*, 2:371-76.
- NIELSON, PAUL E.**, Professor
- Articles**
 With R. Wolff, P. Schiller
 The emotional reaction to a stillbirth. *American Journal of Obstetrics and Gynecology*, 108, 1:73-78.
- PEARSON, PAMELA H.**, Assistant Professor of Psychology
- Articles**
 Relationship between global and specified measures of novelty seeking. *Journal of Consulting and Clinical Psychology*, 34, 2:199-204.
 With D. W. Fiske
 Theory and techniques of personality measurement. *Annual Review of Psychology*, 21:49-86.
- POLLOCK, GEORGE H.**, Clinical Professor
- Articles**
 Anniversary reactions, trauma and mourning. *The Psychoanalytic Quarterly*, 39, 3:347-69.
 With M. Pilot
 Psychosomatic specificity hypothesis testing. *Bulletin of the Menninger Clinic*, 34:85-88.
- Reviews**
 Freud and his early circle, by Vincent Brome. *Contemporary Psychology*, 15, 2:96-98.
 The relation of theory to practice in psychotherapy, ed. by Leonard D. Eron and Robert Callahan. *The Social Service Review*, 44, 1:103-4.

RODGERS, CHARLES H., Assistant Professor of Psychology

Articles

Timing of sexual behavior in the female rat. *Endocrinology*, 86:1181-83.

Total and partial surgical isolation of the male rat hypothalamus: effects on reproductive behavior and physiology. *Physiology and Behavior*, 4:465-70.

SABSHIN, MELVIN, Professor

Articles

With H. Diefenhaus, R. Wilkerson

Dimensions of institutional racism in psychiatry. *American Journal of Psychiatry*, 127, 6:787-93.

Reviews

Brother animal: the story of Freud and Tausk, by Paul Roazen. *Psychoanalytic Quarterly*, 39, 4:631-33.

SCHWARTZ, NEENA B., Professor

Articles

Cybernetics of mammalian reproduction. In *21st Mossbacher Kolloquium: mammalian reproduction*, ed. by H. Gibian, E. J. Plotz, Springer-Verlag, Berlin, pp. 97-111.

With P. Waltz

Role of ovulation in the regulation of the estrous cycle. *Federation Proceedings*, 29, 6:1907-12.

With M. W. Orsini

Uterine weight and pituitary LH content in the pseudopregnant hamster. *Journal of Reproductive Fertility*, 21:431-41.

With C. A. Ely

Comparison of effects of hypophysectomy, antiserum to ovine LH and ovariectomy on estrogen secretion during the rat estrous cycle. *Endocrinology*, 86, 6:1420-35.

SINGER, PAUL R., Associate Professor of Psychology

Articles

The hospital babel. *Nursing Clinics of North America*, 2:371-76.

With A. G. Burstein

Work as a therapeutic agent. *Hospital and Community Psychiatry*, 21:235-37.

With H. Muslin

Evaluation and teaching of psychiatric interviewing. *Comprehensive Psychiatry*, 2:371-76.

SIOMOPOULOS, VASILIS K., Clinical Instructor

Articles

Formal mechanisms of affective experience: outline for a formal theory of affect. *Comprehensive Psychiatry*, 11, 4:306-14.

On form and similarity in mental functioning. *The Psychoanalytic Review*, 56, 3: 415-24.

Paralogic involvement of the notion of awareness in schizophrenic thinking. *The Psychiatric Quarterly*, 44, 2:305-22.

STRASSMAN, HARVEY D., Associate Professor

Articles

With W. Adams, A. W. Pearson

Metronidazole and its effect on social drinkers. *Quarterly Journal of Studies on Alcoholism*, 31, 2:394-98.

Reviews

The doctor's pre-marital medical advisor, ed.

by R. E. Rothenberg. *Annals of Internal Medicine*, 72:300-301.

TUCKER, THOMAS J., Associate Professor of Psychology

Articles

Effects of dorsolateral frontal cortex lesions and discrimination-alternation training on regional acetylcholinesterase activity in monkey. *Brain Research*, 20:401-8.

WEINBERG, JACK, Professor

Articles

Environment, its language and the aging. *Journal of the American Geriatrics Society*, 18, 9:681-86.

Individual adaptation to automation. *Interdisciplinary Topics of Gerontology*, 6:11-16.

Understanding the mentally confused elderly person. *Postgraduate Medicine*, 47, 3:116-19.

The aged: their motivations and rationalizations. In *Retirement planning leadership conference*, Industrial Relations Center, University of Chicago, pp. 18-23.

WILKERSON, RAYMOND G., Assistant Professor

Articles

With H. Diefenhaus, M. Sabshin

Dimensions of institutional racism in psychiatry. *American Journal of Psychiatry*, 127, 6:787-93.

YUFIT, ROBERT I., Assistant Professor of Psychology

Articles

With J. A. Fawcett, B. Benzies, M. E. Fonte

Suicide potential and time perspective. *Archives of General Psychiatry*, 23, 2:158-63.

PUBLIC HEALTH, SCHOOL OF

PETERSON, PAUL O., Professor and Dean of the School of Public Health

Articles

Health professional manpower shortages in the coal industry. In *Papers and Proceedings of the National Conference on Medicine and the Federal Coal Mine Health and Safety Act of 1969*, Washington, D.C., pp. 214-19.

The role of health, education, and welfare in the residential environment. In *Proceedings of the first invitational conference on health research in housing and its environment*. Environmental Health Service, Washington, D.C., pp. 46-48.

Health services and manpower. In *Proceedings of the 1970 Pennsylvania health conference*. Pennsylvania Health Conference Committee, Camp Hill, Pennsylvania, pp. 25-29.

A regional approach to radiological health in the midwest. In *Transcript of remarks, the midwest nuclear compact conference*. Illinois Commission on Atomic Energy, pp. 27-31.

RESEARCH RESOURCES LABORATORY

MARBARGER, JOHN P., Professor and Director of Laboratory

Articles

With H. M. Wegmann, H. Bruner, D. Jovy, K. E. Klein, A. Rimpler

Effects of transmeridian flights on the diurnal

excretion pattern of 17-hydroxycorticosteroids. *Aerospace Medicine*, 41:1003-5.

SURGERY

BADER, KARL F., JR., Clinical Assistant Professor

Articles

Silicone underlays and pulleys: adjunct for tendon surgery. *Journal of the Association of Operating Room Nurses*, 11:57-59.

With J. W. Curtin

Improved techniques for the successful silicone reconstruction of the external ear. *Plastic and Reconstructive Surgery*, 44:372-77.

With E. Pelletiere, J. W. Curtin

Definitive surgical therapy for the pre-malignant or equivocal breast lesion. *Ibid.*, 46:120-24.

BAKER, ROBERT J., Professor

Articles

With D. R. Boyd, R. E. Condon

Priorities of the management of patients with multiple injuries. *Surgical Clinics of North America*, 50, 1:3-11.

With D. R. Boyd, F. A. Folk, R. E. Condon, L. M. Nyhus

Predictive value of serum osmolality in shock following major trauma. *Surgical Forum*, 21:32-33.

With L. M. Nyhus

Diagnosis and treatment of immediate transfusion reaction. *Surgery, Gynecology and Obstetrics*, 130, 4:665-72.

BALAGOT, REUBEN C., Clinical Professor of Anesthesiology

Articles

With B. Ecanow, B. Gold

Observations on the relationship between one hour and twenty-four-hour erythrocyte sedimentation rate. *Laboratory Practice*, 19, 7:706-8.

With J. T. Sharp, W. S. Druz, V. R. Bandelin, J. Danon

Total respiratory compliance in infants and children. *Journal of Applied Physiology*, 29, 6:775-79.

Reviews

Your community hospital, by Robert E. Walsh. *Chicago Medicine*, 73, 9:296-97.

Tobacco and your health: the smoking controversy, by Harold S. Diehl. *Ibid.*, 12:449.

Drug dependence: a guide for physicians, by American Medical Association. *Ibid.*, 14:524-25.

All about allergy, by M. Coleman Harris and Norman Shure. *Ibid.*, 24:855.

BANDELIN, VALERIE R., Clinical Assistant Professor of Anesthesiology

Articles

With J. T. Sharp, W. S. Druz, R. C. Balagot, J. Danon

Total respiratory compliance in infants and children. *Journal of Applied Physiology*, 29, 6:775-79.

BARKER, WALTER L., Clinical Associate Professor

Articles

With W. B. Ostermiller, T. P. Comer

Endobronchial granular cell myblastoma: a

report of three cases and review of the literature. *The Annals of Thoracic Surgery*, 9, 2:143-48.

With B. J. Leininger, H. T. Langston

Tension pneumoperitoneum and pneumothorax in the newborn. *Ibid.*, 4:359-63.

Brush holder for endoscopy. *Chest*, 58:626-28.

BARONE, ROBERT M., Instructor

Articles

With T. K. Das Gupta

Role of pinealectomy on Walker 256 carcinoma in rats. *Journal of Surgical Oncology*, 2, 4:313-22.

BAUMRUCKER, GEORGE O., Clinical Associate Professor of Urology

Articles

Transurethral prostatectomy—a general review. *Endoscopy*, 2, 1:23-27.

BOMBECK, C. THOMAS, Assistant Professor

Articles

Pulmonary embolus. In *Manual of surgical therapeutics*, ed. by Condon and Nyhus, Little, Brown and Co., Boston, pp. 208-18.

The anatomic and physiologic repair of groin hernia. In *Modern surgery*, ed. by Egdahl and Mannick, Grune and Stratton, New York and London, pp. 381-96.

With R. E. Condon, F. E. Steigmann

Heterologous bovine liver perfusion therapy of acute hepatic failure. *The American Journal of Surgery*, 119:147-53.

With R. E. Condon

Liver perfusion in hepatic coma. *Surgical Clinics of North America*, 50:257-73.

With G. E. Helfrich, L. M. Nyhus

Planning surgery for reflux esophagitis and hiatus hernia. *Ibid.*, pp. 29-44.

With L. M. Nyhus

Gastroesophageal reflux. *American Family Physician/GP*, 1:68-75.

With J. R. G. P. Coelho, L. M. Nyhus

Prevention of gastroesophageal reflux after resection of the lower esophagus. *Surgery, Gynecology and Obstetrics*, 130:1035-43.

With P. R. Erve, T. K. Das Gupta, W. Schuner

Effect of halothane inhalation on rat liver mitochondrial function. *Surgical Forum*, 21:372-73.

With F. Steigmann, R. E. Condon, D. A. Silverman, I. Alavi, A. Dubin

Hepatic coma: newer pathogenetic and therapeutic factors. *American Journal of Gastroenterology*, 54:355-62.

With C. V. Interone, J. E. Del Finado, J. R. G. P. Coelho, L. M. Nyhus

Vagotomy of the parietal cell mass: experimental study and preliminary report in 367-68.

BOSWICK, JOHN A., Professor

Articles

Management of the burned hand. *Orthopaedic Clinics of North America*, 1, 2:311-19.

Initial care of hand injuries. *Postgraduate Medicine*, 48, 3:179-82.

With J. McCulloch

A three-year review of household wringer injuries. *Proceedings of the Institute of Medicine*, 28, 3:122.

BOYD, DAVID R., Instructor

Articles

With R. J. Baker, R. E. Condon

Priorities of the management of patients with multiple injuries. *Surgical Clinics of North America*, 50, 1:3-11.

With F. A. Folk

The resuscitation and initial management of the severely injured. *Journal of Occupational Medicine*, 12, 7:262-66.

With F. A. Folk, R. E. Condon, L. M. Nyhus, R. J. Baker

Predictive value of serum osmolality in shock following major trauma. *Surgical Forum*, 21:32-33.

COLE, WARREN H., Professor Emeritus

Books

With R. M. Zollinger

Textbook of surgery (rev. ed.). Appleton-Century-Crofts, New York, 1293 pp.

Books Edited

Chemotherapy of cancer. Lea & Febiger, Philadelphia, 350 pp.

Articles

Medical differences between the young and aged. *Journal of American Geriatric Society*, 18, 8:589-614.

Past, present and future of surgery and the conquest of cancer. *Nebraska State Medical Journal*, 55, 12:13-21.

CUNNINGHAM, MYLES P., Clinical Assistant Professor

Articles

With D. P. Slaughter

Surgical treatment of disease of the thyroid gland in pregnancy. *Surgery, Gynecology and Obstetrics*, 131:486-88.

CURTIN, JOHN W., Clinical Professor

Articles

Reconstruction of the external ear by silastic prostheses. *Revista del Sanatorio Guadaluajara*, 3, 1:49-57.

With J. D. Subtelny, R. M. McCormack, K. S. Musgrave

Speech, intraoral air pressure, nasal airflow — before and after pharyngeal flap surgery. *Cleft Palate Journal*, 7, 1:68-90.

With J. D. Subtelny, N. Oya, R. M. McCormack

Pre- and postoperative analysis of velar and pharyngeal flap mobility. *Ibid.*, 3:748-63.

With K. F. Bader, E. Pelletiere

Definitive surgery for the premalignant breast lesion. *Journal of Plastic and Reconstructive Surgery*, 46, 2:120-25.

DAS GUPTA, TAPAS K., Professor

Books

Tumors and tumor-like conditions of the adipose tissue. Year Book Medical Publishers, Inc., Chicago, 60 pp.

Articles

Scapulectomy: indications and technique. *Surgery*, 67, 4:601-6.

With R. D. Brasfield

Liposarcoma. *Ca-A Journal for Clinicians*, 20, 1:3-9.

Tumors of peripheral nerve origin: benign and malignant solitary schwannomas. *Ibid.*, 20, 6:229-33.

With W. Schumer, G. S. Moss, L. M. Nyhus

Effects of endotoxemia on liver cell mitochondria in man. *Annals of Surgery*, 171, 82:875-78.

dria in man. *Annals of Surgery*, 171, 82:875-78.

DE TAKATS, GEZA, Clinical Professor Emeritus

Articles

Pitfalls in the diagnosis of venous thrombosis. *Illinois Medical Journal*, 136:693.

With T. Vaithianathan

Bodily defenses against thrombosis. *American Journal of Surgery*, 120:73-81.

Reviews

Arterial surgery, by H. H. G. Eastcott. *Journal of the American Medical Association*, 211, 13:2160.

DYE, WILLIAM S., Clinical Professor

Books

With O. C. Julian, H. Javid, J. A. Hunter, H. Najafi

Cardiovascular surgery (second ed.). Year Book Medical Publishers, Chicago, 365 pp.

Articles

With O. C. Julian

Peripheral vascular surgery. In *Surgery: principles and practice*, ed. by Allen, Harkins, and Rhodes (fourth ed.), J. B. Lippincott Co., Philadelphia, pp. 1298-1370.

With H. Najafi, W. E. Ostermiller, H. Javid, J. A. Hunter, O. C. Julian

Narrow aortic root complicating aortic valve replacement. *Archives of Surgery*, 99:690-94.

With H. Javid, W. E. Ostermiller, J. W. Hengesh, J. A. Hunter, H. Najafi, O. C. Julian

Natural history of carotid bifurcation atheroma. *Surgery*, 67, 1:80-86.

With J. A. Hunter, H. Javid, H. Najafi, O. C. Julian

Arteriosclerotic aneurysm of anomalous right subclavian artery. *Journal of Thoracic and Cardiovascular Surgery*, 59, 5:754-58.

With H. Najafi, J. A. Hunter, H. Javid, R. G. Ardekani, O. C. Julian

Emergency left ventricular aneurysmectomy for dying patients. *Annals of Thoracic Surgery*, 10, 4:327-33.

With H. Najafi, W. E. Ostermiller, R. G. Ardekani, H. Javid, and others

Aortoiliac reconstruction in patients 32 to 45 years of age. *Archives of Surgery*, 101:780-84.

GOLDBERG, NORMA B., Clinical Assistant Professor of Anesthesiology

Articles

With A. F. Goldberg

Mepivacaine toxicity: the effect of ambient PO_2 variation. *Pharmacology and Therapeutics in Dentistry*, 1, 1:56-58.

HELFRICH, GEORGE B., Instructor

Articles

With C. T. Bombeck, L. M. Nyhus

Planning surgery for reflux esophagitis and hiatus hernia. *Surgical Clinics of North America*, 50, 1:29-44.

HUNTER, JAMES A., Clinical Associate Professor

Books

With O. C. Julian, W. S. Dye, H. Javid, H. Najafi

Cardiovascular surgery (second ed.). Year

Book Medical Publishers, Chicago, 365 pp.

Articles

With H. Najafi, W. E. Ostermiller, H. Javid, W. S. Dye, O. C. Julian

Narrow aortic root complicating aortic valve replacement. *Archives of Surgery*, 99:690-94.

With R. Sessions, R. Buenger

Experimental balloon obstruction of the inferior vena cava. *Annals of Surgery*, 171, 2:315-20.

With H. Javid, W. E. Ostermiller,

J. W. Hengesh, W. S. Dye, and others
Natural history of carotid bifurcation atheroma. *Surgery*, 67, 1:80-86.

With W. S. Dye, H. Javid, H. Najafi, O. C. Julian

Arteriosclerotic aneurysm of anomalous right subclavian artery. *Journal of Thoracic and Cardiovascular Surgery*, 59, 5:754-58.

With H. Najafi, W. S. Dye, H. Javid, R. G. Ardekani, O. C. Julian

Emergency left ventricular aneurysmectomy for dying patients. *Annals of Thoracic Surgery*, 10, 4:327-33.

With H. Najafi, W. E. Ostermiller,

R. G. Ardekani, W. S. Dye, and others
Aortoiliac reconstruction in patients 32 to 45 years of age. *Archives of Surgery*, 101:780-84.

JAVID, HUSHANG, Professor

Books

With O. C. Julian, W. S. Dye, J. A. Hunter, H. Najafi

Cardiovascular surgery (second ed.). Year Book Medical Publishers, Chicago, 365 pp.

Articles

With H. Najafi, W. E. Ostermiller, W. S. Dye, J. A. Hunter, O. C. Julian

Narrow aortic root complicating aortic valve replacement. *Archives of Surgery*, 99:690-94.

With W. E. Ostermiller, J. W. Hengesh, W. S. Dye, J. A. Hunter, and others

Natural history of carotid bifurcation atheroma. *Surgery*, 67, 1:80-86.

With J. A. Hunter, W. S. Dye, H. Najafi, O. C. Julian

Arteriosclerotic aneurysm of anomalous right subclavian artery. *Journal of Thoracic and Cardiovascular Surgery*, 59, 5:754-58.

With H. Najafi, J. A. Hunter, W. S. Dye, R. G. Ardekani, O. C. Julian

Emergency left ventricular aneurysmectomy for dying patients. *Annals of Thoracic Surgery*, 10, 4:327-33.

With H. Najafi, W. E. Ostermiller,

R. G. Ardekani, W. S. Dye, and others
Aortoiliac reconstruction in patients 32 to 45 years of age. *Archives of Surgery*, 101: 780-84.

JENSIK, ROBERT J., Clinical Professor

Articles

Evaluation of the operability of pulmonary carcinoma. In *Pre- and postoperative management of the cardiopulmonary patient*, ed. by Oaks and Moyer, Grunc and Stratton, New York and London, pp. 59-70.

With L. P. Faber

Planning of tracheal surgery. *Surgical Clinics of North America*, 50, 1:113-22.

JONASSON, OLGA, Associate Professor

Articles

Immunological aspects of renal allotransplantation. *Surgical Clinics of North America*, 50, 1:247-55.

With E. A. Lichter, W. M. Hamby,

R. D. Smith, C. L. Gant, L. M. Nyhus
Donor selection for renal transplantation based on genotypic analysis of HLA in a family. *Archives of Surgery*, 101, 2:219-25.

With J. V. Wander, E. S. Moore

Internal arteriovenous fistulae for dialysis in children. *Journal of Pediatric Surgery*, 5, 5:533-38.

JULIAN, ORMAND C., Professor

Books

With W. S. Dye, H. Javid, J. A. Hunter, H. Najafi

Cardiovascular surgery (second ed.). Year Book Medical Publishers, Chicago, 365 pp.

Articles

Peripheral vascular surgery. In *Surgery: principles and practice* (fourth ed.), ed. by Allen, Harkins, Moyer, and Rhodes, J. B. Lippincott Co., Philadelphia, pp. 1298-1370.

Surgical treatment in cerebral vascular insufficiency. *Journal of Cardiovascular Surgery*, 11, 3:17.

With H. Najafi, W. E. Ostermiller, H. Javid, W. S. Dye, J. A. Hunter

Narrow aortic root complicating aortic valve replacement. *Archives of Surgery*, 99:690-94.

With H. Javid, W. E. Ostermiller,

J. W. Hengesh, W. S. Dye and others
Natural history of carotid bifurcation atheroma. *Surgery* 67, 1:80-86.

With M. D. Goldin, W. G. Manax

Considerations in planning operative treatment of dissecting aortic aneurysms. *Surgical Clinics of North America*, 50, 1:193-203.

With W. G. Manax

Aortic aneurysms. *British Journal of Hospital Medicine*, August 1970, pp. 235-44.

With J. A. Hunter, W. S. Dye, H. Javid, H. Najafi

Arteriosclerotic aneurysm of anomalous right subclavian artery. *Journal of Thoracic and Cardiovascular Surgery*, 59, 5:754-58.

With H. Najafi, J. A. Hunter, W. S. Dye, H. Javid, R. G. Ardekani

Emergency left ventricular aneurysmectomy for dying patients. *Annals of Thoracic Surgery*, 10, 4:327-33.

With H. Najafi, W. E. Ostermiller,

R. G. Ardekani, W. S. Dye, and others
Aortoiliac reconstruction in patients 32 to 45 years of age. *Archives of Surgery*, 101: 780-84.

KNOCK, FRANCES E., Clinical Assistant Professor

Articles

With R. M. Galt, Y. T. Oester, O. V. Renaud, R. Sylvester, and others

Cancer chemotherapy aimed at potential cellular regulators. In *Progress in antimicrobial*

- and anticancer chemotherapy: proceedings of the 6th international congress of chemotherapy, vol. 2, University of Tokyo Press, Tokyo, pp. 167-69.
- With R. M. Galt, O. V. Renaud, Y. T. Oester
Clinical cancer chemotherapy aimed at potential cell regulators. *Archives of Surgery*, 100, 2:167-72.
- With R. M. Galt, Y. T. Oester, O. V. Renaud, R. Sylvester, and others
Clinical cancer chemotherapy aimed at cellular control mechanisms. *Illinois Medical Journal*, 137, 3:239-45.
- With R. M. Galt, Y. T. Oester, O. V. Renaud
Preferential attack on animal and human cancers by selected SH inhibitors. *Journal of American Medical Association*, 214, 1: 146.
- KUKRAL, JOHN C.**, Associate Professor
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With W. Dobryszczyka, D. Elwyn
Isolation and chemical composition of canine haptoglobin. *Biochemica et Biophysica Acta*, 175:220-22.
- With G. C. Henegar, J. Pollitt, E. Riveron
Clinical and experimental studies of changes in blood volume, water and electrolyte spaces following hepatic insufficiency and portacaval shunt. *Proceedings of the Institute of Medicine*, 28:36.
- With L. F. Plzak, Jr., E. B. Paulissian, O. H. Trippel, Jr.
Changes in lipid and purine metabolism in patients with peripheral vascular disease of varied etiology. *Proceedings of the Institute of Medicine of Chicago*, 29:78.
- With R. A. Zeineh
The turnover rate of orosomucoid in burned patients. *Journal of Trauma*, 10, 6:493-98.
- With R. A. Zeineh, E. B. Paulissian, A. Dubin, L. F. Plzak, Jr., J. A. Boswick
Increased protein anabolism in burn patients with negative nitrogen balance. *Surgical Forum*, 21:69-71.
- With W. C. Shoemaker
The metabolic sequelae of trauma. *Surgical Clinics of North America*, 50:1211-16.
- With W. Dobryszczyka
Metabolic studies on sialic acid-free haptoglobin. *Archivum Immunological et Therapiae Experimenta*, 18:527-30.
- LANGSTON, HIRAM T.**, Professor
Articles
Of cabbages and kings. *Journal of Thoracic and Cardiovascular Surgery*, 60, 2:151-56.
- With B. J. Leininger, W. L. Barker
Tension pneumoperitoneum and pneumothorax in the newborn. *The Annals of Thoracic Surgery*, 9, 4:359-63.
- With G. Milles, W. D'Alessandro
Blood transfusions. *Hospitals*, 44:63-64.
- With B. J. Leininger, W. L. Barker
Brush holder for endoscopy. *Chest*, 58, 6: 626-28.
- LAX, LOUIS C.**, Clinical Associate Professor of Anesthesiology
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Mathematical basis of electrolyte theory. *Modern Medicine*, 38, 14:215-18.
- LEVITSKY, SIDNEY**, Associate Professor
Articles
With C. A. Annable, R. A. Thomas
The management of empyema after thoracic wounding: observation on 25 Vietnam casualties. *Journal of Thoracic and Cardiovascular Surgery*, 59, 5:630-34.
- With W. H. Williams, D. E. Detmer, C. L. McIntosh, A. G. Morrow
Functional evaluation of the preserved heart. *Ibid.*, 60, 5:625-35.
- With A. G. Morrow, C. L. McIntosh, V. Parsonett, P. L. Frommer
Experimental evaluation of a radioisotope-powered cardiac pacemaker. *Ibid.*, 6:836-52.
- With V. J. Ferrans, L. M. Buja, W. H. Williams, C. L. McIntosh, W. C. Roberts
Histological and ultrastructural studies on preserved hearts. *Circulation*, 41:104-09.
- With P. A. Di Sant-Agnese, A. Lapey
Pulmonary resection for hemoptysis in cystic fibrosis. *The Journal of the American Medical Association*, 213: 1:125-27.
- With L. C. Parks, W. H. Williams, A. G. Morrow
Inhibition of experimental cardiac hypertrophy by azathioprine. *Surgery*, 68, 3:536-40.
- LONG, DAVID M., JR.**, Professor
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With M. M. Patel, M. K. Patel, P. Szanto, D. P. Alrenga
Survival and histopathologic changes in lungs of hamsters following synthetic liquid breathing. *Federation Proceedings*, 29, 5: 1740-45.
- MONROE, CLARENCE W.**, Clinical Associate Professor
Articles
With B. H. Griffith, P. McKinney
A follow-up study on the treatment of keloids with triamcinolone acetonide. *Plastic and Reconstructive Surgery*, 46, 2:145-50.
- With B. H. Griffith, P. McKinney, S. W. Rosenstein, B. N. Jacobson
Surgical recession of the premaxilla and its effect on maxillary growth in patients with bilateral clefts. *The Cleft Palate Journal*, 7, 3:784-93.
- MOSS, GERALD S.**, Associate Professor
Articles
Use of frozen blood. In *Hematologic problems in surgery*, ed. by Laufman and Erichson, W. B. Saunders and Co., Philadelphia, pp. 93-106.
- Preservation of red cells by freezing. In *Surgery annuals: 1970*, ed. by Cooper and Nyhus, Appleton-Century-Crofts, New York, pp. 35-50.
- With G. M. Cerchio, D. C. Siegel, P. A. Popovich, E. Butler
Serum insulin response in hemorrhagic shock in baboons. *Surgery*, 68, 1:34-39.
- With W. Schumer
The late management of acute popliteal occlusion. *Vascular Surgery*, 4, 3:171-78.
- With D. C. Siegel, A. Cochlin, T. K. Das Gupta
Pulmonary changes following treatment for

- hemorrhagic shock: saline verses colloid infusion. *Surgical Forum*, 21:17-19.
- With R. W. Virgilio, L. D. Homer, C. M. Herman, B. D. Lowery
The effect of hemorrhagic shock on the extracellular fluid space in the nephrectomized baboon. *Annals of Surgery*, 171, 2:261-68.
- With W. Schumer, L. M. Nyhus
Corticosteroid effect on biochemical parameters of human oligemic shock. *The Archives of Surgery*, 100:405.
- With R. W. Virgilio, L. D. Homer, C. M. Herman, B. D. Lowery, S. L. Schwartz
Comparison of insulin and EDTA spaces in the nephrectomized baboon. *Journal of Surgical Research*, 10:370.
- Reviews**
Surgery of acquired vascular disorders, by Benjamin B. Jackson. *Review of Surgery*, 27, 1:67-68.
Surgical principles, by James Moroney and Francis Stock. *Ibid.*, p. 70.
Collateral circulation in clinical surgery, by D. E. Strandness, Jr. *Ibid.*, 2:151.
Arterial surgery, by H. H. G. Eastcott. *Ibid.*, 3:171.
Textbook of surgery, by MacFarlane and Thomas. *Ibid.*, p. 228.
Surgical principles, by James Moroney and Francis E. Stock. *Ibid.*, 4:301-2.
- NAJAFI, HASSAN, Clinical Professor**
- Books**
With O. C. Julian, W. S. Dye, H. Javid, J. A. Hunter
Cardiovascular surgery (second ed.). Year Book Medical Publishers, Chicago, 365 pp.
- Articles**
With W. E. Ostermiller, H. Javid, W. S. Dye, J. A. Hunter, O. C. Julian
Narrow aortic root complicating aortic valve replacement. *Archives of Surgery*, 99:690-94.
With W. E. Ostermiller, R. G. Ardekani, W. S. Dye, H. Javid, O. C. Julian
Aortoiliac reconstruction in patients 32 to 45 years of age. *Ibid.*, pp. 780-84.
With H. Javid, W. E. Ostermiller, J. W. Hengesh, W. S. Dye, and others
Natural history of carotid bifurcation atheroma. *Surgery*, 67, 1:80-86.
With H. A. Escamilla, J. G. Clark
Acute coronary insufficiency and life-threatening cardiac arrhythmias eight months after triple heart valve replacement. *Surgical Clinics of North America*, 50, 5:1119-27.
With J. A. Hunter, W. S. Dye, H. Javid, R. G. Ardekani, O. C. Julian
Emergency left ventricular aneurysmectomy for dying patients. *Annals of Thoracic Surgery*, 10, 4:327-33.
With J. S. Mirany, C. Serry, R. Callaghan, J. Yang
Pathophysiological alterations in perfused and nonperfused lungs during cardiopulmonary bypass. *Ibid.*, 5:402-8.
With J. A. Hunter, W. S. Dye, H. Javid, O. C. Julian
Arteriosclerotic aneurysm of anomalous right subclavian artery. *Journal of Thoracic and Cardiovascular Surgery*, 59, 5:754-58.
- NYHUS, LLOYD M., Warren H. Cole**
Professor and Head of the Department
- Books Edited**
With P. Cooper
Surgery annual. Appleton-Century-Crofts, New York, 352 pp.
- Articles**
With H. N. Harkins
Stomach and duodenum. In *Surgery, principles and practice* (fourth ed.), ed. by Rhoads, Allen, Harkins, and Mayer, J. B. Lippincott Co., Philadelphia, pp. 819-79.
Gastric ulcer. *Scandinavian Journal of Gastroenterology*, 6:123-38.
With C. T. Bombeck, G. B. Helfrich
Planning surgery for reflux esophagitis and hiatus hernia. *Surgical Clinics of North America*, 50:29-44.
With R. J. Baker
Diagnosis and treatment of immediate transfusion reaction. *Surgery, Gynecology and Obstetrics*, 130:665-72.
With C. T. Bombeck, R. G. P. Coelho
Prevention of gastroesophageal reflux after resection of the lower esophagus. *Ibid.*, pp. 1035-43.
With C. T. Bombeck
Gastroesophageal reflux. *American Family Physician: GP*, 1:68-75.
With W. Schumer
Corticosteroid effect on biochemical parameters of human oligemic shock. *Archives of Surgery*, 100:405-8.
With O. Jonasson, E. A. Lichter, W. M. Hamby, R. D. Smith, C. L. Gantt
Donor selection for renal transplantation based on genotypic analysis of HL-A in a family. *Archives of Surgery*, 101, 2:219-25.
With W. Schumer, T. K. Das Gupta, G. S. Moss
Effect of endotoxemia on liver cell mitochondria in man. *Annals of Surgery*, 171:875-82.
With D. R. Boyd, F. A. Folk, R. E. Condon, R. J. Baker
Predictive value of serum osmolality in shock following major trauma. *Surgical Forum*, 21:32-33.
With C. V. Interone, J. E. Del Finado, J. R. G. P. Coelho, C. T. Bombeck
Vagotomy of the parietal cell mass: experimental study and preliminary report in fifteen patients. *Review of Surgery*, 27: 367-68.
- PUESTOW, CHARLES B., Clinical Professor**
Emeritus
- Books**
Surgery of the biliary tract, pancreas and spleen. (fourth ed.). Year Book Medical Publisher, Chicago, 397 pp.
- Articles**
With B. J. Leininger
Esophageal rupture associated with an incarcerated paraesophageal hernia and pyloric obstruction: a case report. *American Journal of Surgery*, 119, 348-351.
- SADOVE, MAX S., Professor of**
Anesthesiology
- Articles**
With L. M. Cadkin
Pheocromocytoma: total patient management. *Surgical Clinics of North America*, 50, 1: 147-55.

With M. Shulman, S. Haseba

Hemodynamic effects of propiomazine. *Anesthesia and Analgesia: Current Researches*, 49, 3:441-45.

With M. Shulman

Studies with myfadol: a new analgesic agent. *Ibid.*, 6:905-11.

With M. Shulman, E. Jobgen

Cardiovascular effects of isotharine administered to surgical patients during cyclopropane anesthesia. *British Journal of Anesthesiology*, 42:439-43.

SCHULTZ, RICHARD C., Clinical Assistant Professor

Books

Facial injuries. Year Book Medical Publishers, Chicago, 264 pp.

Articles

Supraorbital and glabellar fractures. *Plastic and Reconstructive Surgery*, 45, 3:227-33.

One thousand consecutive cases of major facial injury. *Review of Surgery*, 27, 6:394-410.

One thousand consecutive cases of major facial injury. *Proceedings of the Asian Pacific Congress of Plastic Surgery* (New Delhi, India), 2:30-46.

Upper third of face fractures from vehicle accidents. *Proceedings of the Institute of Medicine of Chicago*, 28, 4:157.

Upper third of face fractures from vehicle accidents. *Proceedings of the Asian Pacific Congress of Plastic Surgery* (New Delhi, India), 1:23-34.

Reviews

Impact injury and crash, by Gurdjian, Lange, Patrick, and Thomas. *Plastic and Reconstructive Surgery*, 46, 5:505.

SCHUMER, WILLIAM, Professor

Books Edited

With L. M. Nyhus

Corticosteroids in the treatment of shock. University of Illinois Press, Urbana, 163 pp.

Articles

The cell. In *Corticosteroids in the treatment of shock*, ed. by Schumer and Nyhus, University of Illinois Press, Urbana, pp. 52-67.

High calorie in traumatized patients. In *Body fluid replacement in the surgical patient*, ed. by Fox and Nahas, Grune and Stratton, Inc., New York, pp. 326-33.

With G. S. Moss, L. M. Nyhus

Corticosteroid effect on biochemical parameters of human oligemic shock. *Archives of surgery*, 100, 4:405-8.

With T. K. Das Gupta, G. S. Moss, L. M. Nyhus

Effect of endotoxemia on liver cell mitochondria in man. *Annals of Surgery*, 171, 6: 875-82.

With G. S. Moss

The late management of acute popliteal occlusion. *Vascular Surgery*, 4, 3:171-78.

With P. C. Reed, P. R. Erve, T. K. Das Gupta

Endotoxemic effect of *Escherichia coli* on cardiac and skeletal muscle mitochondria. *Surgical Forum*, 21:13-14.

With C. T. Bombeck, P. R. Erve, T. K. Das Gupta

Effect of halothane inhalation on rat liver mitochondrial function. *Ibid.*, pp. 372-73.

With P. R. Erve, S. K. Kapica, G. S. Moss

Endotoxin effect on respiration of rat liver mitochondria. *Journal of Surgical Research*, 10, 12:609-12.

SHULMAN, MORTON, Associate Professor of Anesthesiology

Articles

With M. S. Sadove, S. Haseba

Hemodynamic effects of propiomazine. *Anesthesia and Analgesia: Current Researches*, 49, 3:441-45.

With M. S. Sadove

Studies with myfadol: a new analgesic agent. *Ibid.*, 6:905-11.

With M. S. Sadove, E. Jobgen

Cardiovascular effects of isotharine administered to surgical patients during cyclopropane anesthesia. *British Journal of Anesthesiology*, 42:439-43.

SIEGEL, DONALD C. Instructor

Articles

With G. S. Moss, G. M. Cerchio, P. A. Popovich, E. Butler

Serum insulin response in hemorrhagic shock in baboons. *Surgery*, 68, 1:34-39.

With G. S. Moss, A. Cochlin, T. K. Das Gupta

Pulmonary changes following treatment for hemorrhagic shock: saline verses colloid infusion. *Surgical Forum*, 21:17-19.

SOUTHWICK, HARRY W., Clinical Professor

Books

With D. P. Slaughter, L. J. Humphrey

Cirugia de la manna. Editorial Interamericana, S.A. DF Mexico, 227 pp.

Articles

Miscellaneous infections. In *Textbook of surgery*, ed. by Cole and Zollinger, Appleton-Century-Croft, Inc., New York, pp. 102-33.

With R. McNally

Surgery for anterior intraoral cancer. *Surgical Clinics of North America*, 50, 1:219-26.

SPERLING, RICHARD L., Clinical Assistant Professor

Reviews

Facial injuries, by Richard Carlton Schultz. *Review of Surgery*, 27, 5:314.

SRINIVASAN, VEDANTHAM, Assistant Professor of Urology

Articles

With J. Stutzman, R. R. Cross, F. A. Lloyd

Spontaneous extravasation of contrast material during excretory urography. *Journal of the Indiana State Medical Association*, 63, 4:331-34.

STEINWALD, OSMAR P., JR., Instructor

Articles

With R. C. Muehrcke, S. G. Economou

Surgical correction of complete lingual ectopia of the thyroid gland. *Surgical Clinics of North America*, 50, 5:1177-86.

STROHL, EVERETT L., Clinical Professor

Articles

Herbert P. Sedwick. *Proceedings of the Institute of Medicine of Chicago*, 28, 1:5-7.

- Echoes from surgery's valhalla. *Archives of Surgery*, 101, 2:97-106.
- Birth of the Wilson club. *The Mayo Almanus*, 6, 4:18-21.
- The unique friendship of Theodor Billroth and Johannes Brahms. *Surgery, Gynecology and Obstetrics*, 131, 4:757-61.
- With S. M. Sethi, T. Matsuda, L. B. Pemberton
An analysis of 500 consecutive cases of acute appendicitis in a metropolitan charity hospital. *Illinois Medical Journal*, 138, 2:147-50.
- TAYLOR, SAMUEL G., III, Professor**
- Articles
- Chemotherapy. In *Guidelines for cancer care*, ed. by Committee on Guidelines for Cancer, Commission on Cancer, American College of Surgeons, Chicago, pp. 165-67. *Medicine. Ibid.*, pp. 141-46.
- Hormonal therapy in the management of disseminated cancer. In *Chemotherapy of cancer*, ed. by Cole, Lea & Febiger, Philadelphia, pp. 204-27.
- Common medical problems in disseminated cancer. *Geriatrics*, 25, 5:102-5.
- With C. P. Perlia, N. J. Gubisch, J. Wolter, D. Edelberg, M. M. Dedrick
Mithramycin treatment of hypercalcemia. *Cancer*, 25, 2:389-94.
- With S. J. Cutler, A. J. Asire
Prognostic significance of ovarian status in patients with disseminated cancer of the breast. *Ibid.*, 26, 4:938-43.
- With T. B. Schwartz, J. J. Zannini, W. G. Ryan
Streptozotocin therapy for metastatic insulinoma: a case report. *Archives of Internal Medicine*, 126, 4:654-57.
- THOREK, PHILIP, Clinical Professor**
- Books
- Atlas of surgical techniques. J. B. Lippincott, Philadelphia, 196 pp.
- WEINBERG, MILTON, JR., Clinical Associate Professor**
- Articles
- With J. J. Amato, R. M. Vanecko, S. T. Yao
Emergency approach to the subclavian and innominate vessels. *The Annals of Thoracic Surgery*, 8, 6:537-41.
- WITKOWSKI, LEON J., Clinical Associate Professor**
- Articles
- With P. L. Beaty
The indications for total gastrectomy. *Surgical Clinics of North America*, 50, 1:57-64.

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