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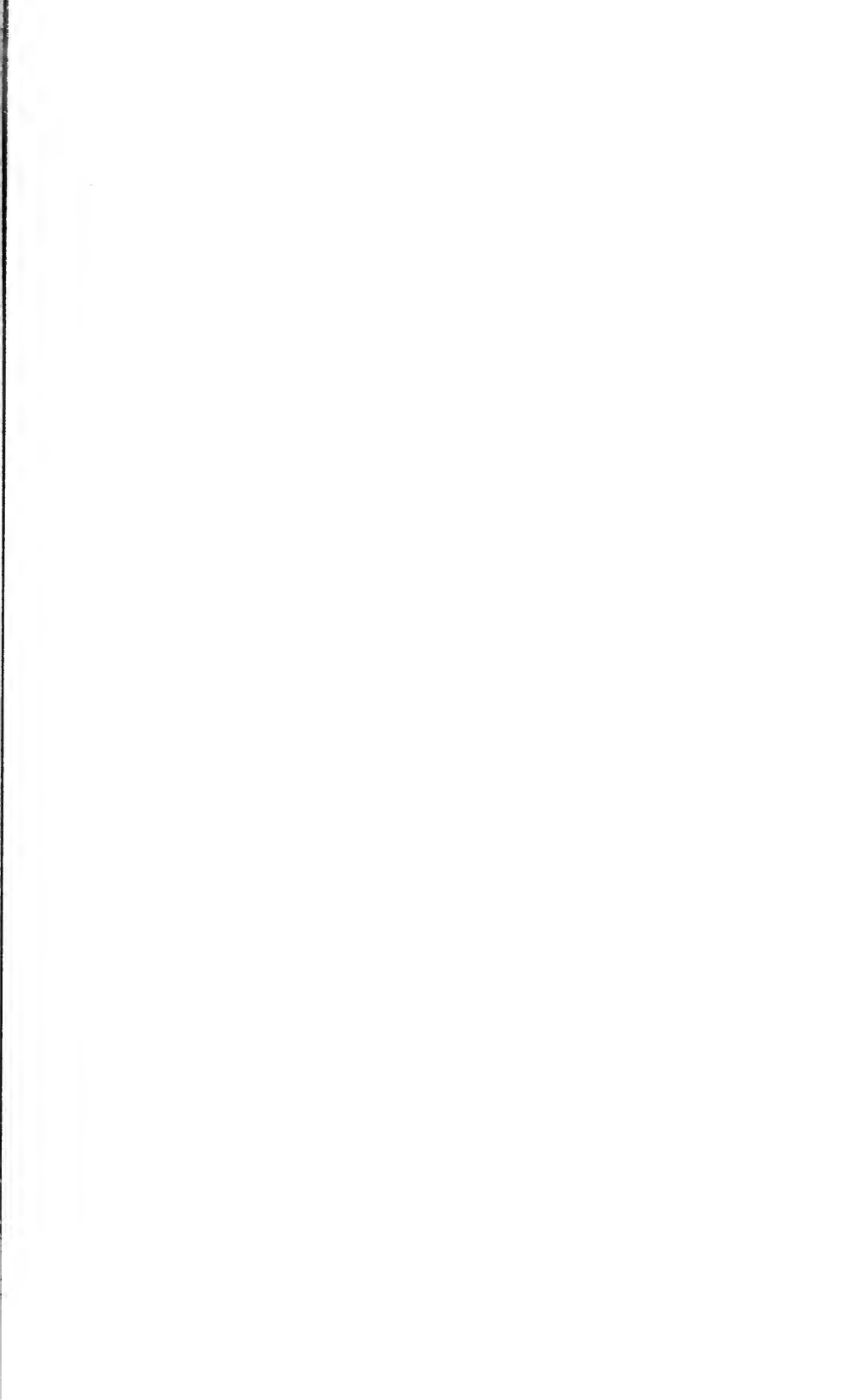
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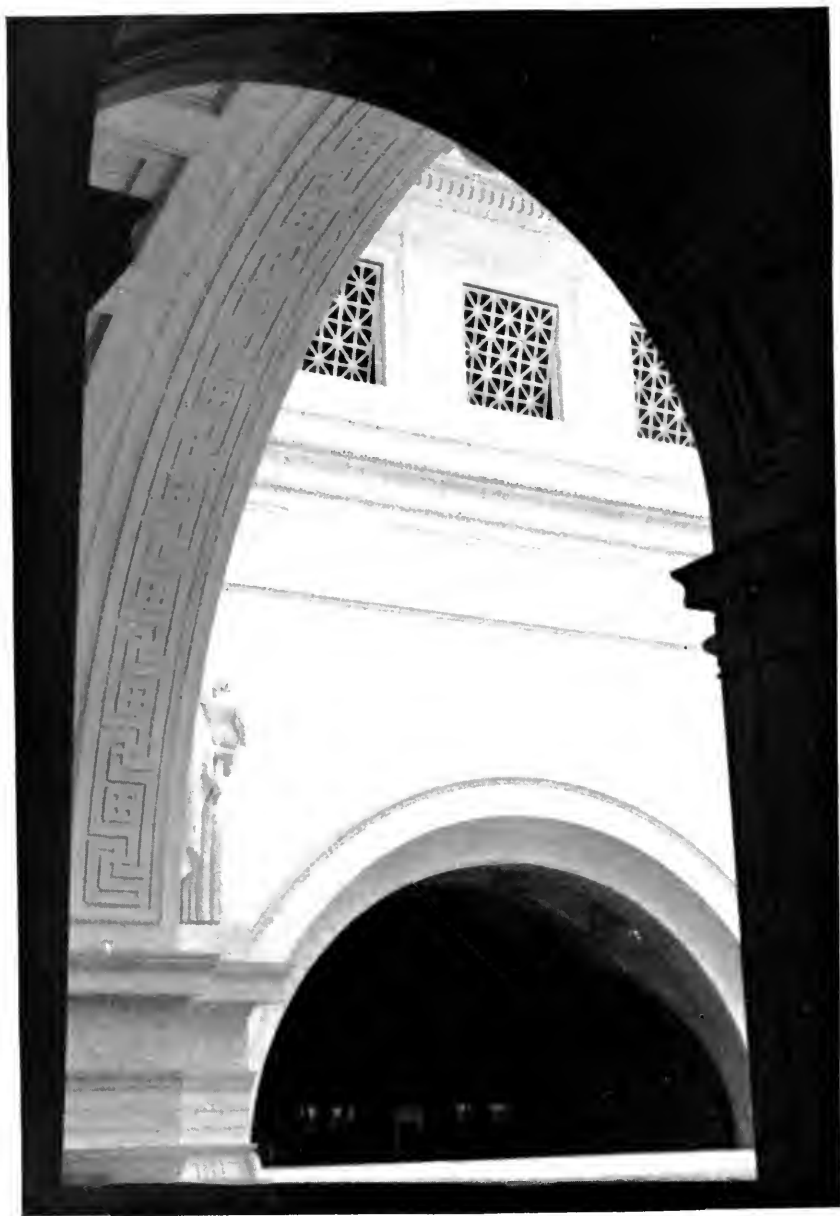


Photo by L. Lucchesi

Report of the Director

to the

Board of Trustees

for the year 1963



CHICAGO NATURAL HISTORY MUSEUM

1963

PRINTED IN THE UNITED STATES OF AMERICA
BY CHICAGO NATURAL HISTORY MUSEUM PRESS

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† Resigned

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PAUL S. MARTIN, Ph.D., Chief Curator

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GEORGE I. QUIMBY, A.M., Curator, North American Archaeology and Ethnology

JOHN B. RINALDO, Ph.D., Associate Curator, Archaeology†

KENNETH STARR, Ph.D., Curator, Asiatic Archaeology and Ethnology

PHILLIP H. LEWIS, M.A., Curator, Primitive Art

HOSHIEH TCHEN, Ph.D., Consultant, East Asian Collection

CHRISTOPHER C. LEGGE, M.A., Custodian of Collections

ALFRED LEE ROWELL, Dioramist*

MARY HOGQUIST MCDERMUT, Assistant‡

RONNOG SEABURG, Assistant

GUSTAF DALSTROM, Artist

THEODORE HALKIN, B.F.A., M.S., Artist

WALTER C. REESE, Preparator

SUSAN SCHANCK, B.S., Artist-Preparator¶

STEVENS SEABURG, A.M., Artist-Preparator

CHRISTINE S. DANZIGER, M.S., Conservator

AGNES M. FENNELL, B.A., Departmental Secretary

ROBERT J. BRAIDWOOD, Ph.D., Research Associate, Old World Prehistory

PHILIP J. C. DARK, Ph.D., Research Associate, African Ethnology

FRED EGGAN, Ph.D., Research Associate, Ethnology

J. ERIC THOMPSON, Dipl.Anth.Camb., Research Associate, Central American
Archaeology

JAMES R. GETZ, B.A., Field Associate

EVETT D. HESTER, M.S., Field Associate

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JOHN R. MILLAR, Chief Curator

J. FRANCIS MACBRIDE, Curator, Peruvian Botany‡

IN-CHO CHUNG, Ph.D., Assistant Curator, Vascular Plants

LOUIS O. WILLIAMS, Ph.D., Curator, Central American Botany

PATRICIO PONCE DE LEON, Ph.D., Assistant Curator, Cryptogamic Herbarium

SAMUEL H. GROVE, JR., Artist-Preparator

FRANK BORYCA, Technician

¶ on leave

‡ retired

† resigned

* deceased

DEPARTMENT OF BOTANY (CONTINUED)

WALTER HUEBNER, Preparator
ROBERT ANDERSON, Artist
EDITH M. VINCENT, A.B., Research Librarian *
DOROTHY GIBSON, Assistant
CLARE A. REHLING, Departmental Secretary

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ROGERS McVAUGH, Ph.D., Research Associate, Vascular Plants
DONALD RICHARDS, Research Associate, Cryptogamic Botany
EARL E. SHERFF, Ph.D., Research Associate, Systematic Botany
HANFORD TIFFANY, Ph.D., Research Associate, Cryptogamic Botany
MARGERY C. CARLSON, Ph.D., Research Associate, Phanerogamic Botany
SIDNEY F. GLASSMAN, Ph.D., Research Associate, Palms
ING. AGR. ANTONIO MOLINA R., Field Associate

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RAINER ZANGERL, Ph.D., Chief Curator
EDWARD J. OLSEN, Ph.D., Curator, Mineralogy
BERTRAM G. WOODLAND, Ph.D., Curator, Igneous and Metamorphic Petrology
JOHN CLARK, Ph.D., Associate Curator, Sedimentary Petrology
HARRY E. CHANGNON, B.S., Curator of Exhibits
HENRY HORBACK, Assistant
HENRY U. TAYLOR, Preparator
ROBERT H. DENISON, Ph.D., Curator, Fossil Fishes
WILLIAM D. TURNBULL, Associate Curator, Fossil Mammals
DAVID TECHTER, B.S., Assistant, Fossil Vertebrates
EUGENE S. RICHARDSON, JR., Ph.D., Curator, Fossil Invertebrates
ORVILLE L. GILPIN, Chief Preparator, Fossils
JOE H. CHOATE, Preparator, Fossils
TIBOR PERENYI, Ph.D., Artist
EVELYN SHAROCH, Departmental Secretary †
WINIFRED REINDERS, Departmental Secretary

ERNST ANTEVS, Ph.D., Research Associate, Glacial Geology
ALBERT A. DAHLBERG, D.D.S., Research Associate, Fossil Vertebrates
ERIK N. KJELLESVIG-WAERING, B.S., Research Associate, Fossil Invertebrates
EVERETT C. OLSON, Ph.D., Research Associate, Fossil Vertebrates
BRYAN PATTERSON, Research Associate, Fossil Vertebrates
RALPH G. JOHNSON, Ph.D., Research Associate, Paleoecology
ROBERT F. MUELLER, Ph.D., Research Associate, Mineralogy
J. MARVIN WELLER, Ph.D., Research Associate, Stratigraphy
R. H. WHITFIELD, D.D.S., Associate, Fossil Plants
VIOLET WHITFIELD, B.A., Associate, Fossil Plants

† resigned

* deceased

DEPARTMENT OF ZOOLOGY

AUSTIN L. RAND, Ph.D., Sc.D., Chief Curator
JOSEPH CURTIS MOORE, Ph.D., Curator, Mammals
PHILIP HERSHKOVITZ, M.S., Research Curator, Mammals
EMMET R. BLAKE, M.S., Curator, Birds
MELVIN A. TRAYLOR, JR., A.B., Associate Curator, Birds
M. DIANNE MAURER, A.B., Assistant, Birds
ROBERT F. INGER, Ph.D., Curator, Amphibians and Reptiles
HYMEN MARX, B.S., Assistant Curator, Reptiles
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PEARL SONODA, Assistant, Fishes
RUPERT L. WENZEL, Ph.D., Curator, Insects
HENRY S. DYBAS, B.S., Associate Curator, Insects
AUGUST ZIEMER, Assistant, Insects
FRITZ HAAS, Ph.D., Curator Emeritus, Lower Invertebrates
ALAN SOLEM, Ph.D., Curator, Lower Invertebrates
D. DWIGHT DAVIS, D.Sc., Curator, Vertebrate Anatomy
SOPHIE ANDRIS, Osteologist
CARL W. COTTON, Taxidermist
MARIO VILLA, Tanner
PETER ANDERSON, Assistant Taxidermist
JOSEPH B. KRSTOLICH, Artist
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RUDYERD BOULTON, B.S., Research Associate, Birds
ALFRED E. EMERSON, Ph.D., Sc.D., Research Associate, Insects
HARRY HOOGSTRAAL, Ph.D., Research Associate, Insects
CH'ENG-CHAO LIU, Ph.D., Research Associate, Reptiles
ORLANDO PARK, Ph.D., Research Associate, Insects
CLIFFORD H. POPE, B.S., Research Associate, Amphibians and Reptiles
CHARLES H. SEEVERS, Ph.D., Research Associate, Insects
R. M. STRONG, Ph.D., Research Associate, Anatomy
ROBERT TRAUB, Ph.D., Research Associate, Insects
ALEX K. WYATT, Research Associate, Insects
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LUIS DE LA TORRE, M.S., Associate, Mammals
MARION GREY, Associate, Fishes
WALDEMAR MEISTER, M.D., Associate, Anatomy
EDWARD M. NELSON, Ph.D., Associate, Fishes

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ESTHER P. KERSTER, Secretary

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Annual Report of the Director

Annual Report

of the Director

To the Trustees:

“A growing museum is a living museum.” Throughout 1963 this concept of museum dynamics came to mind as we sought to plan goals for and determine needs of the Museum. Last year mention was made in this report of some of the many aspects of our work which have grown in recent years. We also pointed out a clear and urgent need to provide space to house our growing collections. The very bed rock on which the foundation of a distinguished museum rests is the breadth and quality of its collections. All else is based on great collections—scientific research by staff and visiting scholars, graduate training, creation of outstanding exhibits which are the major resources for a program of public education. The proper housing and care of these collections are unglamorous but fundamental responsibilities of any museum. Accordingly, it seemed wise to devote a major portion of our attention, in 1963, to this end. The matter gained further importance when the University of Chicago offered the outstanding Walker Museum collection of fossil invertebrates to Chicago Natural History Museum on a permanent deposit basis. The transfer of this great collection, four times the size of our present collection of fossil invertebrates, will be a major step toward the creation of a national resource for paleontological research and graduate education. University of Chicago President George W. Beadle wrote of the proposed consolidation: “A most important result of the proposed change will be the increase of real cooperation

and pooling of efforts of various midwest universities and colleges and the Chicago Natural History Museum. Not only the University of Chicago, but all other institutions interested in fields represented in the Museum, will find increased opportunities for independent study and teaching.”

Without space in the Museum to house this collection, and with critical need for additional area for our fine Library and Division of Insects, the decision was made to plan for the filling in of a light well in the north-east quadrant of the building. This will provide an additional 25,000 square feet of floor space. After two years of study, space allocations were made, and plans drawn up for the remodeling of adjacent areas to provide modern and efficient study, laboratory, office and classroom areas. Since the financing of this construction was beyond the resources of the Museum, we requested, in March, financial assistance from the National Science Foundation. After careful study of the plans for the construction and use of the new facility, the National Science Foundation granted \$875,200 to the Museum, thus insuring the construction. By year's end architects were working on the plans, with hopes that construction would be completed in 1964.

Completion of this facility will resolve our immediate expansion needs. We will then be in a position to plan an orderly approach to the general requirements of modernization and improvement of the Museum building, as well as to future expansion needs.

Another task, also directly related to the collections, has been to introduce modern, scientifically correct techniques for the preservation of the large and irreplaceable collections of the Department of Anthropology. In 1963, a conservator was added to the staff of the Department, and plans were made for a modern conservation laboratory. A major grant from the Robert R. McCormick Charitable Trust, additional funds from the Wenner-Gren Foundation for Anthropological Research and Museum funds provided resources for equipment and construction which will be completed in 1964 (see page 40).

To turn from the tangibles of the present to other matters of even greater long-term importance, it is evident that the Museum is at a point at which fundamental decisions must be made in respect to education, exhibition, and research—decisions which will affect its program for years to come. Some of the areas of concern are:

- The extent to which the Museum will commit itself to a broadened program of education. At school level, at the graduate level and in adult education, the opportunities for spe-

cialized contributions to and participation in the educational program of the midwest are far beyond our present capacity to finance. Here, as in other areas, decisions must be made on the basis of a well-defined plan as to the appropriate responsibilities for a museum to assume, measured against the resources potentially available.

— Our commitment to a strong and revitalized exhibition program. A natural history museum provides two important and distinctive elements of the educational process—extensive exhibits and large systematic collections of specimens. The collections are important in educational work at the graduate level, but the exhibits are the principal factor in museum educational work below that level. As such, exhibits must be up to date and dynamic if they are to stimulate and properly instruct those who use them. Chicago Natural History Museum's exhibits occupy ten acres of floor area in 46 halls. These exhibits are outstanding. But, like textbooks and encyclopedias, they require periodic revision in the light of new knowledge, using new techniques, new approaches to display, and new ideas in interpretation. The task of renewing these extensive exhibits as often as necessary requires a larger exhibition staff.

— The means by which our active research program may be strengthened and broadened. The relationship of the federal government to the scientific community has, in the years since World War II, become a clear and permanent segment of national policy and interest. The government and the universities, science museums, and other research institutions are deeply concerned with the orderly progression of federal involvement in scientific research. The welding of institutional goals, capabilities, and resources with federal programs and financial support will require the most dedicated thought and effort on the part of all museum personnel. It is equally important, however, that a private institution make a strong commitment of non-federal resources to research to insure that the flexibility and independence of the institution be maintained. Chicago Natural History Museum traditionally has been dedicated to significant financial support of all research activities of the Staff. This policy will require continuing infusion of funds and a broadened base of local support.

In terms of operation, 1963 proved to be gratifying. Our attendance of 1,409,633 was only 4% less than 1962, a remarkably small

drop from the unusually high 1962 attendance built by the Tutankhamun Treasures exhibition. A consistent growth in attendance has been evident for the last six years.

Membership in the Museum again increased and totaled 8,740 at year's end, an increase of 517 Members over the previous year. The Associate and Life Membership Endowment Funds, created by Membership contributions from these Membership categories, passed the \$1,000,000 level during 1963.

Developments in exhibition revision, educational work, and other areas of our programs are set forth in the following pages.

TRUSTEES AND OFFICERS

The Board of Trustees lost one of its most loyal and devoted members on October 20 on the occasion of the death of Solomon A. Smith, Treasurer of the Museum since 1914 and a Trustee since 1920. In his memory, the Board of Trustees adopted the following resolution:

SOLOMON A. SMITH 1877-1963

"The Members of the Board of Trustees of Chicago Natural History Museum noted with deep regret and a sincere sense of personal loss the death on October 20, 1963, of Solomon A. Smith, their fellow board Member.

"Mr. Smith was elected Treasurer of the Museum on August 10, 1914, and since that date had served the Museum in many capacities. He became a Life Member in 1919, a corporate Member and a Trustee in 1920. He had served at various times as a member of the Pension Committee and the Nominating Committee. Since 1940 he had served as Chairman of the Finance Committee and as a member of the Executive Committee. His wise counsel was always a source of strength to the Museum.

"Mr. Smith began his career with the Northern Trust Company of Chicago in 1900 and became the President in 1914. In 1957 he became Chairman of the Board and on October 15, 1963, he became Honorary Chairman of the Board.

Besides being a banker of note, Mr. Smith had served as a Director of the Commonwealth Edison Company, Illinois Tool Works, Inc., Montgomery Ward and Company, Inc., United States Gypsum Company and Elgin National Watch Company.

“He was generous in giving his time to numerous civic and charitable organizations. He served in various capacities as a Board Member or officer of Presbyterian- St. Luke’s Hospital, the Museum of Science and Industry, the Chicago Child Care Society, the Chicago Zoological Society, the Hospital Association of Lake Forest, the Chicago Chapter of the American Red Cross, the Visiting Nurse Association, the Chicago Sunday Evening Club and several others. He served longer on the Board of Trustees of Chicago Natural History Museum than any other Member, except the Chairman of the Board, Mr. Stanley Field.

“The Members of the Board of Trustees of the Museum feel the deep loss, not only of his valued services, but of his personal friendship.

“Therefore, be it resolved that this expression of our sorrow at his death be permanently inscribed on the records of the Board of Trustees of Chicago Natural History Museum.

“And be it further resolved that our deep sympathy be conveyed to the members of his family in their bereavement and that a copy of this resolution be sent to his widow.”

At the annual meeting of the Board of Trustees, Stanley Field was re-elected Chairman of the Board, to serve as presiding officer of the Board for the fifty-fourth year. Other officers re-elected were Clifford C. Gregg, President; Hughston M. McBain, First Vice President; Joseph N. Field, Second Vice President; Bowen Blair, Third Vice President; Solomon A. Smith, Treasurer and Assistant Secretary; E. Leland Webber, Secretary of the Board and Director of the Museum.

Hughston McBain asked that the Board accept his resignation as First Vice President at the September meeting, because of the pressure of his other business affairs. At this meeting, James L. Palmer, President of Marshall Field and Company, was elected a Trustee and First Vice President to succeed Mr. McBain.

Edward Byron Smith, President of The Northern Trust Company, was elected to the Board in January. Upon the death of his father in October, Mr. Smith was elected Treasurer of the Museum.

GIFTS TO THE MUSEUM

There was a gratifying increase in financial support to the Museum during the year, both in restricted and unrestricted gifts. Such giving is the key to realization of the Museum's potential as a research and educational center of increasing distinction.

The following gifts for specified purposes were received: Mr. and Mrs. William S. Street, for zoological expeditionary work, \$8,731.25; Philip K. Wrigley, for marine biological research, \$5,000; James R. Getz, \$615, and Edward Alexander, \$500, for anthropological field work; Dr. Louis O. Williams, \$600 in support of botanical field work in Central America; Robert R. McCormick Charitable Trust, \$33,000, and Wenner-Gren Foundation for Anthropological Research, \$4,000 for establishment of a conservation laboratory in the Department of Anthropology; Wenner-Gren Foundation for Anthropological Research, \$3,000, for computer programming in archaeological research; Roosevelt University, \$625 in support of a zoological publication; National Science Foundation, \$60,650 in support of research and research facilities; United States Army Medical Research and Development Command, \$10,580 in support of entomological research.

Unrestricted gifts were received from: the Searle Foundation, \$1,000; Mr. and Mrs. James L. Palmer, \$500; William H. Mitchell, \$500; General Biological Supply House, \$500.

Endowment funds were established by receipt of gifts of \$25,000 from the Solomon A. Smith Charitable Trust to the Solomon A. Smith Fund and \$1,000 from Mrs. Anne Riccords Galt to the Francis Stanley Riccords Memorial Fund. Additional gifts to previously established endowment funds included: Stanley Field, \$43,821.62; Sterling Morton, \$10,000 (bequest); Jack A. Staehle, \$8,494.66; William G. Burt, \$1,015.88; Miss Margaret Conover, \$1,026.56; Dr. Maurice L. Richardson, \$750; Mrs. Walther Buchen, \$722; Mrs. Cyril L. Ward, \$500; Mrs. Daphne Field Cook, \$500; \$554.86 from the estate of the late Mrs. Abby K. Babcock.

Other Gifts were also received from Mrs. Lee Winfield Alberts, Hamilton Allport, Edwin C. Austin, George Hugh Barnard, George A. Bates, Board of Jewish Education, Bowen Blair, Arthur S. Bowes, Von Allan Carlisle, Peder A. Christensen, Carl O. Colby, Donald Collier, William S. Covington, Walter H. Creber, Jr., Elliott Donnelley, Mr. and Mrs. Gaylord Donnelley, Thomas E. Donnelley, Shirley Farr Estate, Joseph N. Field, Miss Juliet T. Goodrich, Clifford C. Gregg, Maxwell Hahn, John F. Hayward, Harry Hoogstraal, Robert S. Ingersoll, Samuel Insull, Jr., Mr. and Mrs. George C.

Kraemer, Commander J. F. Kurfess, Mrs. Joseph Lipman, Paul S. Martin, Dorothy A. McDonald, Charles F. Murphy, Barbara Myers, Dr. Eugene J. O'Neill, George F. Prescott, George I. Quimby, John Quisenberry, William J. Roberts, Mrs. Katherine Field Rodman, Dr. Sheldon W. Rosenstein, Lillian A. Ross, Melville N. and Mary F. Rothschild Fund, Judd Sackheim, Andrew Sage, Mr. and Mrs. Reuben Schutz, John G. Searle, Chester Shell, Harry Silverstein, B. L. Smalley, Harold Byron Smith, Mr. and Mrs. Hermon Dunlap Smith, State Bank and Trust Co. (Evanston), Russell F. Stephens, Mr. and Mrs. Roy E. Sturtevant, Mrs. Margaret Brown Trimble, Milton Tootle, Jr., Walter F. Wallace, E. Leland Webber, Donald P. Welles, Ira E. Westbrook, Miriam Wood, Arthur Young & Company, Mrs. R. Zickman.

Gifts to the Memorial Fund were received in memory of: Paul Fejos, Commander Frank V. Gregg, Wilfrid D. Hambly, James G. Kellogg, Marie Pabst, Karl P. Schmidt, Solomon A. Smith, Mrs. Reuben M. Strong.

Contributors elected by the Board were: George A. Bates, Mrs. Anne Rickcords Galt, Dr. Julian R. Goldsmith, and Robert J. Reich. Gifts of materials received during the year are listed at the end of this report (see page 78).

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

Staff members of Harris Extension carried out its program of lending portable Museum exhibits of natural history material to Chicago schools in accordance with precedents established over the years and with the provisions of the Trust. At the end of the year a total of 501 schools and other public-service institutions were participating in the lending program. Each institution participating the full school year received 34 exhibits.

Repairs were made in the workshop on 441 of the portable cases.

Twenty-eight requests for birdskins, herbarium sheets, insect cases, rocks and fossils, and other material individually selected by teachers were filled. Six of the standard portable exhibits were among the materials signed out.

JAMES NELSON AND ANNA LOUISE RAYMOND
FOUNDATION FOR PUBLIC SCHOOL AND
CHILDREN'S LECTURES

Raymond Foundation's 1963 activities are briefly outlined as follows: Tours, lectures, workshops, journeys, motion pictures and TV programs gave the assistance to groups and individuals which is the purpose of Raymond Foundation. The greatest needs and requests continued to come from school groups visiting the Museum. A record 4,521 organized groups, including 222,419 persons, registered in the Museum in 1963. These were mainly school groups, but others, such as Girl and Boy Scouts, Camp Fire Girls, day camps, summer play groups and clubs of all kinds, were included. Unfortunately, it was possible to provide guide service to only a small number of these groups.

It was encouraging to note the careful way in which teachers were planning their museum visits. Increasingly, the visit to the Museum had a definite purpose related to a special interest or need and teachers were doing an excellent job of planning and carrying out a museum visit with very little assistance from Raymond Foundation. This is a healthy sign in school usage of museums. Also noticeable was the fact that the average number of students per class has been reduced; this has made educational work in the Museum much more effective. New programs this year were:

1. Space Geology Programs presented in connection with "Chicago and Midwest Space Month," from April 11 to May 9, and the Museum's special exhibit, "Space Geology." Raymond Foundation offered two programs daily on weekdays. Films and discussion of Space Geology, and self-guided tours of the special exhibit, made up the program. Twenty-one programs in all were given to 6,655 persons, mainly elementary school groups.

2. Informal Saturday Workshops for Members' children initiated in October and November. Five different subjects of interest to children of ages 10 through 13 were selected. Each workshop was limited to a small number of children to allow more personal communication between them and the Museum staff member. Eleven sessions were given to a total of 337 children. This successful program was an important step toward closer contacts between the staff and the membership.

One program which merits special mention was Chicago's second Holiday Science Lectures series, presented to a group of selected high-ability high school students on December 26 and 27. The

RAYMOND FOUNDATION TOTALS OF 1963 SERVICE

1. WORK WITH CHILDREN

<i>A. School groups</i>	Groups	Individuals	Groups	Individuals
Chicago public	331	12,436		
Chicago parochial	42	1,667		
Chicago private	35	731		
Total Chicago groups	<u>408</u>	<u>14,834</u>		
Suburban public	921	32,207		
Suburban parochial	43	1,518		
Suburban private	6	216		
Total suburban groups	<u>970</u>	<u>33,941</u>		
Out-of-state groups	97	3,801		
Total			1,475	52,576
 <i>B. Other groups</i>				
Special (clubs, etc.)			109	6,851
 <i>C. Individuals or groups</i>				
Journeys		1,328		
Children's movies	23	12,730		
Total			<u>23</u>	<u>14,058</u>
Total Work with Children			<u>1,607</u>	<u>73,485</u>

2. WORK WITH ADULTS

Colleges	28	710		
Public tours	49	1,235		
Miscellaneous groups	8	155		
Museum-film showings	48	4,667		
Total Work with Adults			133	6,767

3. MISCELLANEOUS PROGRAMS

Television programs			10	
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Grand Total of Raymond Foundation Work			1,750	80,252
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speaker, Dr. William Fowler, of the California Institute of Technology, presented four lectures on "The Origin of the Elements." This excellent series of which the Museum is privileged to be a co-sponsor, is a part of a national program of the American Association for the Advancement of Science made possible by a grant from the National Science Foundation.

SPECIAL EXHIBITS AND PROGRAMS

In observance of Chicago and Midwest Space Month (April 9-May 9) the Museum presented an extensive exhibition titled "Space Geology." The focus of the exhibition was on the physical features of the moon's landscape delineated in models, photographs and maps. A historical diorama and a display of meteorites and tektites provided supplementary interest.

"Is There Life on Mars?", another special Space Month exhibit, graphically explained what happens to mosses when subjected to simulated Martian environmental conditions. Recent experiments conducted by the Armour Research Foundation provided background information for the display.

"Antarctica—The White Continent", a major exhibit presented in Hall 9 from June to September, dramatically outlined current scientific progress on the world's least-known continent. Photographs, models, scientific instruments and a reproduction of an actual Antarctic camp were provided by a number of federal agencies and private lenders. The exhibit had been assembled by and first shown at the Mariners' Museum, Newport News, Virginia.

A photographic exhibit depicting Indian life in the Navajo and Hopi country of the Southwest was displayed in Stanley Field Hall during March. The 58 black-and-white photo enlargements were taken by Elizabeth Compton Hegemann.

Floral water-color paintings by Miss Ethelynde Smith were displayed in Hall 28 from June 15-July 31. In the same hall, water-color paintings of edible and poisonous mushrooms by Oscar Pejza were presented from September to December.

An attractive exhibit of botanical prints by Henry Evans of San Francisco was shown in Stanley Field Hall in November and December. "Birds of the World," a collection of paintings by Karl Plath which reflect his long interest in birds, was presented in Stanley Field Hall in December.



"ANTARCTICA—THE WHITE CONTINENT"
A SPECIAL EXHIBIT
IN HALL 9



Annual Museum exhibits included the 18th Chicago International Nature Photography Exhibition, the 13th Annual Amateur Hand-crafted Gem and Jewelry Competitive Exhibition, and a presentation of drawings by the students of the Junior School of the Art Institute.

A record 1,905 Museum Members and their guests enjoyed Members' Night on the evening of April 26.

The eighteen adult lectures presented through the provisions of the Edward E. Ayer Lecture Fund were attended by a total of 16,288 persons on Saturday afternoons of March, April, October and November.

STAFF OF THE MUSEUM

In March, Dr. John C. Clark joined the staff as Associate Curator of Sedimentary Petrology, in connection with a planned reorganization of responsibilities for collections and research in petrology. Dr. Bertram G. Woodland, formerly Associate Curator of Petrology, was appointed Curator of Igneous and Metamorphic Petrology. Other appointments during the year were Dr. In-Cho Chung, Assistant Curator of Vascular Plants; Mrs. Christine S. Danziger, Conservator, Department of Anthropology; Lido Lucchesi, Assistant Preparator, Harris Extension; Miss Clare A. Rehling, Departmental Secretary, Department of Botany; Mrs. Winifred Reinders, Departmental Secretary, Department of Geology; Joe H. Choate, Preparator, Fossil Vertebrates, Department of Geology; and Mrs. Ronnog Seaberg, Assistant, Department of Anthropology.

Seven Research Associates were elected by the Board of Trustees: Dr. Philip J. C. Dark, African Ethnology; Dr. Margery Carlson (formerly Associate, Botany) Phanerogamic Botany; Dr. Sidney F. Glassman, Palms; Dr. Bernard Greenberg, Amphibians and Reptiles; Dr. Ralph G. Johnson, Paleoecology; Dr. Robert F. Mueller, Mineralogy; Dr. J. Marvin Weller, Stratigraphy. James R. Getz was appointed Field Associate in Anthropology and Ing. Agr. Antonio Molina R., Field Associate in Botany.

Staff promotions included W. Peyton Fawcett from Head Cataloguer to Associate Librarian; Christopher C. Legge, Department of Anthropology, from Assistant Custodian of Collections to Custodian of Collections; William D. Turnbull from Assistant Curator to Associate Curator of Fossil Mammals; and Mario Villa from Assistant Taxidermist to Tanner.

After many years of devoted service, Miss Lillian A. Ross, Associate Editor of Scientific Publications, retired at the close of 1963. Some measure of her contribution to the Museum may be gained by consideration of the fact that more than two-thirds of the scientific publications published since the Museum's founding have appeared under her editorship. Others who retired, each after fifteen years or more years of service, were: Mrs. Hilda Nordland Damsgaard, Assistant Recorder; Mrs. Helen A. MacMinn, Associate Editor, Miscellaneous Publications; J. Francis Macbride, Curator, Peruvian Botany.

Resignations during the year included Dr. John B. Rinaldo, Associate Curator, Archaeology; Mrs. Evelyn Shahroch, Departmental Secretary, Department of Geology; Mrs. Mary Hogquist McDermut, Assistant, Department of Anthropology.

I regretfully record the deaths of Elmer S. Riggs, Curator of Paleontology who was a member of the staff from 1898 until 1942; Alfred Lee Rowell, Dioramist, Department of Anthropology; Paul C. Standley, formerly Curator of the Herbarium; and Miss Edith M. Vincent, Research Librarian, Department of Botany.

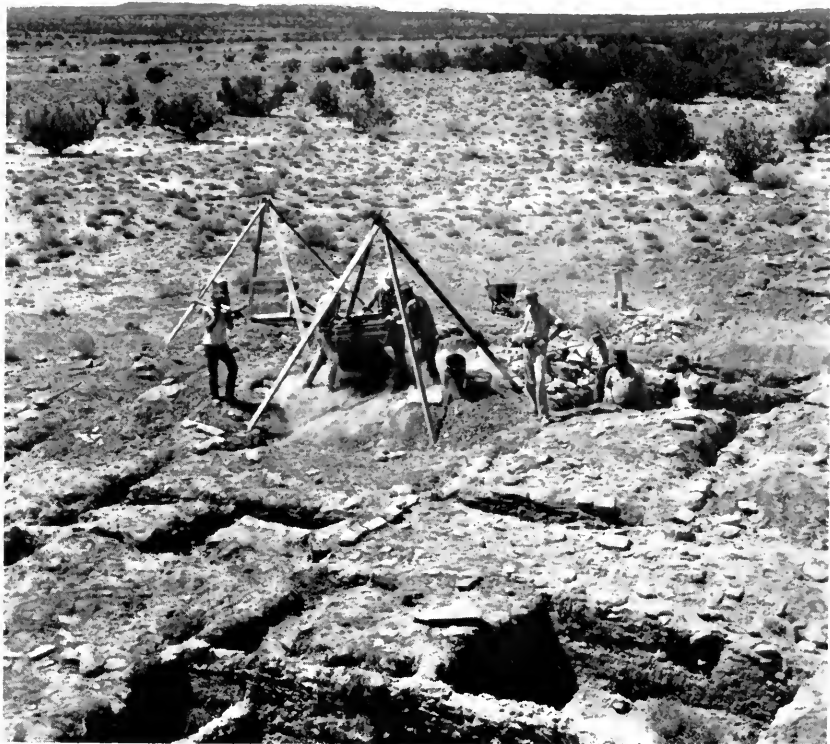
VOLUNTEER WORKERS

The Museum expresses its appreciation to its volunteer workers for their assistance through the year. Some of them, designated as Research Associate and Associates, are included in the List of Staff. Others are: Mrs. Joanne Bucholz, Stanley J. Dvorak, Miss Karen Gross, Sol Gurewitz, Miss Helen Horton, James Howe, Mrs. Lhadon Karsip, Kenneth Kietzke, Ellis Neiburger, and Miss Diane de Vry Roth. Twelve Senior Girl Scouts were trained as Museum Aides to assist the Raymond Foundation, especially in the Nature Proficiency Badge Programs given for Girl Scouts in February and October.

The Museum on Expedition . . .

. . . ARIZONA

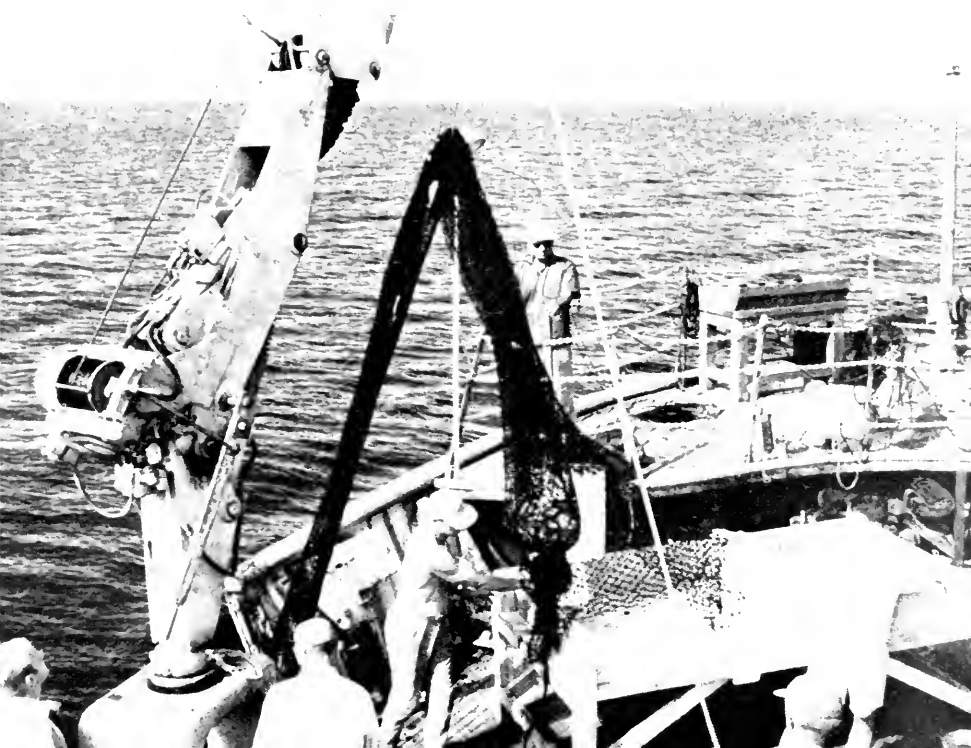
SOUTHWEST ARCHAEOLOGICAL EXPEDITION





. . . AUSTRALIA
SOUTH AUSTRALIAN PALEONTOLOGICAL EXPEDITION

. . . INDIAN OCEAN
INTERNATIONAL INDIAN OCEAN EXPEDITION



The Museum on Expedition . . .

. . . CENTRAL AMERICA

CENTRAL AMERICAN BOTANICAL EXPEDITION



DEPARTMENT OF ANTHROPOLOGY

DEPARTMENT OF BOTANY

DEPARTMENT OF GEOLOGY

DEPARTMENT OF ZOOLOGY



STONE LIONS
ON EXHIBIT IN
"CHINA IN THE CH'ING DYNASTY"
(HALL 32)

Department of Anthropology

Research and Expeditions

Dr. Paul S. Martin, Chief Curator, excavated a large thirteenth century pueblo on Hay Hollow Wash, near Snowflake, Arizona. James N. Hill and John Fritz, research assistants, helped plan and execute the research. A grant from the National Science Foundation aided the Museum in this work.

The object of the excavation was to obtain data for testing the hypothesis that the patterns of social organization in the Southwest at A.D. 1200 were changing to adapt to a shift in environment, and that these developments culminated in modern Western Pueblo social organization.

The ruin was composed of four house-blocks or groups of contiguous rooms that were organized in the form of a large rectangle around an open plaza. There are 91 rooms in the pueblo and of these 56 were chosen to obtain a statistically random sample. No round or Great Kivas were found but five rectangular ceremonial structures were located, four of which were dug. The great plaza probably served as a working area and contained two rectangular earth-walled kivas.

Only two burials were found. The midden was shallow and rested on bed rock. The absence of other interments is puzzling.

Samples for pollen analysis were collected from about 100 *loci*. Mr. Richard Hevly, Geochronology Laboratories, University of Arizona, Tucson, Arizona, is processing these samples and from them he hopes to obtain a clear impression of climatic conditions that obtained in that area in the thirteenth century and of the foods grown or collected.

During this summer excavation, 108 negatives were exposed, developed and cataloged; 2415 specimens of bone, stone and pottery were classified and cataloged; 31,000 sherds were recovered, classified and tabulated; and over 10,000 pieces of lithic waste were analyzed.

These and other data will be processed on the IBM 7090 computer at the University of Chicago (the costs of processing will be defrayed by a grant from the Wenner-Gren Foundation). From the results of the computer processing we hope to make probability statements about our finds, to isolate causes of similarities and relationships, and to make progress in the study of cultural processes and changes in cultural systems. Thus we shall be able to move

Archaeology into the explanatory level and back into the field of Anthropology.

George I. Quimby, Curator of North American Archaeology and Ethnology, engaged in research on the archaeology of the historic period—A.D. 1600–1820—in the Upper Great Lakes region. As part of this project he examined a number of relevant private and museum collections in Michigan, Minnesota, Wisconsin, and Ontario and undertook field investigations of certain key areas. In October Curator Quimby and Mr. James R. Getz, Field Associate, made an archaeological survey of the south shore of Lake Superior and the northern and eastern shores of Lake Michigan in an attempt to locate documented Indian sites of the seventeenth and eighteenth centuries. Mr. and Mrs. Leo Casper of St. Paul, Minnesota kindly furnished the use of their boat for some survey work in the Apostle Islands. Artifacts from surface collecting and test excavations included bipolar cores and tools from Late Woodland Period sites and a new type of knife from an Archaic site.

Collections—Anthropology

A major accession in 1963 was the Captain A. W. F. Fuller African ethnological collection which was a generous gift of Mrs. Fuller in memory of her late husband. The collection consists of 225 pieces of African art and other ethnological materials—190 pieces are from Benin and the 35 other pieces from Nigeria, the Congo and other parts of Africa.

The importance of this acquisition is considerable. The Fuller Benin Collection is one of the world's large Benin collections and widely representative of the total range of material from Benin. The late Captain Fuller not only tried to acquire many and good pieces, but did so with emphasis on their representation of technical processes. As a result, the Fuller Benin Collection goes beyond being an art collection, although it contains many fine art pieces, but samples a wide range of Benin material culture.

The total collection of 380 pieces, resulting from the combination of the Fuller Collection with the Benin collection of Chicago Natural History Museum, which was of the same size, thus now comprises one of the world's largest and best Benin collections.

The most important, and certainly the most interesting, group of Asian materials acquired during the year was the Lion Dog Collection, acquired through the generosity of Miss C. F. Bieber of Santa Fe, New Mexico. The collection consists of more than one

MASK FROM
BENIN

ON DISPLAY
IN
HALL E



hundred Chinese pieces, quite varied in age, material and function, each of which manifests a representation of the Lion Dog, popular symbol of courage and protestation against evil in China and other parts of eastern Asia. This unique collection was described in the *Museum Bulletin* for May, 1963, as was the significance of the Lion Dog in Asian religion and folklore.

In order to initiate a scientific conservation program for the preservation of the anthropology collections, Mrs. Christine Danziger, a chemist, was appointed Conservator in the Department of Anthropology. It was necessary to establish a well-equipped laboratory in order to apply the most recent conservation techniques—such as micro-, electro-, and organic chemistry; spectroscopy, x-ray and x-ray diffraction; metallurgy, mineralogy and textile chemistry along with microphotography and photography—to the great variety of inorganic and organic materials in the collections. As a part of planning the laboratory, Mrs. Danziger made a study trip to the leading conservation centers in the United States and Canada. Basic equipment was acquired with funds from a grant from the Wenner-Gren Foundation for Anthropological Research, and work was begun on the preservation of specimens of bronze and wood. A grant from the Robert R. McCormick Charitable Trust of Chicago will make possible the construction of the laboratory in 1964 and the purchase of additional equipment.

The year saw the completion of the Asian Ethnology storage area and the transfer into this area of all the Asian ethnological collections not on public display. Housed in the new storage area, which replaces a half-dozen separate, widely distributed storage rooms, are cultural materials from most of eastern Asia, including China, Tibet and other Himalayan countries, Japan, Korea and mainland Southeast Asia.

The long and painstaking task of processing the large collections of Chinese and other Asian ethnological materials acquired in the past several years continued. Chief among these collections are the group of more than one thousand examples of folk textiles obtained from Dr. Carl Schuster and the rare and extensive group of more than fifteen hundred folk-art pieces (See the *Museum Bulletin* for May, 1963), the great majority of which were given to the Museum by Miss C. F. Bieber. After more than two years of steady work, the processing of these and several other smaller collections was very nearly completed.

Dr. Hoshien Tchen, Consultant, East Asian Collection, continued to make identifications, furnish descriptions and provide other in-

formation as requested. He devoted most of his time and efforts, however, to continuing the cataloguing of the Museum's excellent collection of Chinese ink-rubbings. This collection is one of the largest and most comprehensive in the Western world. Of special note, Dr. Tchen this year completed the cataloguing of five important groups of rubbings.

Exhibits

Artist Gustaf Dalstrom completed repainting the background of the Swiss Lake Dweller diorama in Hall C (Stone Age of the Old World), bringing it up-to-date with recent archaeological findings on Neolithic villages of Switzerland.

The combined Fuller-Chicago Natural History Museum Benin collections had been displayed as a special temporary exhibition, "The Art of Benin," in Hall 9 during the last quarter of 1962. Early in 1963 most of that exhibition was moved and reinstalled in the west end of Hall E (Africa) where it will remain indefinitely. The reinstallation was done so that the published catalog, *The Art of Benin*, is still useful in referring to specific items.

After nearly three years of labor the reinstallation of the Chinese hall "China in the C'hing Dynasty" (Hall 32), neared completion and is to open formally at the end of January, 1964.

CONSERVATOR DANZINGER AT WORK
IN NEW LABORATORY





CACTUS AND ORCHIDS
COVERING A TREE TRUNK
IN COSTA RICA

Department of Botany

Research and Expeditions

Dr. Rogers McVaugh, Curator of Vascular Plants at the University of Michigan and Research Associate on the staff of the Museum, visited a number of European herbaria during the summer to search archives and collections for data concerning Sessé and Mociño specimens, which would help to clarify the historical background of the collection and permit the designation of types and authors in the annotated catalogue now in preparation. Herbaria in Florence, Paris, Geneva, and Madrid, revealed helpful data so that on his return Dr. McVaugh was able to identify handwriting and interpret notations on original labels.

Mr. Paul Hutchison, Senior Botanist of the University of California Botanical Garden, Berkeley, left in November for Peru as leader of the Eighth Andean Expedition in which the Museum participates as one of several sponsors, as does the Botanical Garden. Mr. Hutchison will try to amplify a collection of Peruvian cacti and obtain other data needed to enable him to discuss the cacti of Peru for the *Flora of Peru*.

Dr. Sidney F. Glassman, Professor of Biology, University of Illinois, Navy Pier, and Museum Research Associate, began a revision of the palm genus *Syagrus* and continued compiling data for a proposed second and revised edition of *An Index to American Palms* by B. E. Dahlgren, first published by the Museum in 1936 and still an essential reference on American palms.

Dr. In-Cho Chung, who joined the staff as Assistant Curator of Vascular Plants in late January, began the identification of Ecuadorian plants collected by Dr. Acosta-Solis and sent to the Museum for determination.

Dr. Louis O. Williams, Curator of Central American Botany, began the year in the field, and continued collecting in Nicaragua and Costa Rica until his return to the Museum in March. In January the National Science Foundation awarded the Museum a grant in support of botanical field work in Central America for a two-year period, with Dr. Williams as principal investigator. The Escuela Agrícola Panamericana, Tegucigalpa, Honduras, and the Museo Nacional, San José, Costa Rica, cooperate in the project through Ing. Antonio Molina R., Curator of the Herbarium at the Escuela, and Ing. Alfonso Jimenez M., Curator of the National Herbarium, who have accepted specific collecting assignments. Each institution co-



MODEL OF CURRANT PREPARED FOR
HALL OF USEFUL PLANTS (HALL 28)

operates further by administering portions of grant funds and offering use of certain facilities at their respective locations.

The new grant for botanical field work in Central America reinforces and supplements an earlier National Science Foundation grant in support of Museum efforts to conclude a *Flora of Guatemala* begun a number of years ago by the late Paul C. Standley, and now the principal research effort of Dr. Williams. The extension of the collecting range in Central America is in recognition of both the desirability of more intensive study of the flora of the New World tropics and the fact that as the rapidly expanding population in Central American countries compels extension of land under cultivation, it will become increasingly difficult to discern the composition and pat-

terns of distribution of the early vegetation. Dr. Williams completed manuscript for another part of the *Flora of Guatemala* dealing with the Araliaceae and Umbelliferae and also a preliminary paper on novelties and new combinations. On December first he returned to Guatemala where he was met by Ing. Molina for further collecting in the vicinity of San Marcos.

J. Francis Macbride, Curator of Peruvian Botany, in continuation of his work on the *Flora of Peru*, completed and submitted manuscript covering a number of the tribes in the family Compositae.

Collections—Botany

Over 27,000 herbarium specimens of vascular plants from 67 different sources were received, as were nearly 3,000 specimens of non-vascular plants from 17 different sources. Principal among these were 13,000 specimens collected by Dr. Louis O. Williams and collaborators in Guatemala, Nicaragua and Costa Rica; 890 specimens of Central American plants, largely the collection of Percy Gentle, received on exchange from the Texas Research Foundation; and 1,637 fungi of the Samuel T. Harper collection received on exchange from the University of Wisconsin.

Active use of the herbarium is measured in part by the number of specimens borrowed by other institutions for study by members of their staffs, or by graduate students. In addition to 90 persons who came to use the herbarium, 87 loans totaling 17,979 specimens, were shipped to other institutions including twelve foreign herbaria.

Exhibits—Botany

Construction work, lighting, and painting of the Hall of Useful Plants (Hall 28) were completed. The series of seventeen murals by Julius Moessel dealing with the development of agriculture was transferred from Hall 25 to Hall 28. Fourteen case units were installed wholly or in part with exhibits on fumitories, masticatories, and narcotics (under the general title of "pacifier plants"). Also brought well toward completion were exhibits on non-alcoholic beverages, rubber, and soybeans, the last as part of an exhibit on the more general subject of legumes. Realistic models of Indian hemp, soybean, cocaine, peyote, sassafras, opium poppy and currant were made for inclusion in these exhibits or those to be started soon.



A SPECIAL EXHIBIT
IN OBSERVANCE OF
CHICAGO AND MIDWEST SPACE MONTH

Department of Geology

Research and Expeditions

Dr. Edward Olsen, Curator of Mineralogy, began a study of phase equilibria in meteorites. The purpose of the study is to examine the distribution of chemical elements between pairs of minerals found in meteorites in order to establish the temperatures and pressures which existed in the parent body, or bodies. The work is being done in collaboration with Dr. Robert F. Mueller of the Department of Geophysical Sciences, University of Chicago. In October, 1963, this work was granted financial support by the National Science Foundation for the year October, 1963 through September, 1964. The support will be used to provide additional x-ray and chemical equipment, student assistance, etc., both at the Museum and on the University of Chicago campus.

Dr. Bertram G. Woodland, Curator of Igneous and Metamorphic Petrology, completed a study on the nature and origin of cone-in-cone structure, the results of which are to be published by the Museum. A short paper on compaction cones in shale was also written and is now in press. He continued his research on micro-structures in metamorphic rocks collected from the Royalton area, Vermont. Dr. Woodland spent four weeks of the summer in the central Black Hills region of South Dakota examining the Precambrian schists and quartzites and collecting specimens for further study of the micro-structures with a view to determining the structural geometry of the area and elucidating its deformational history.

Henry Horback, Assistant, continued work on a new catalog of meteorites in the Museum collection. This work was begun by the late Dr. Sharat K. Roy, who was former Chief Curator of the department.

Harry Changnon, Curator of Exhibits, progressed on his manuscript of a semi-popular guide to the geology of the Chicago area and also conducted a number of field trips to newly-created, transient outcrops in this region.

Dr. John Clark, Curator of Sedimentary Petrology, spent most of his time in the final laboratory work and in writing on a major research project, "The paleogeography and paleoclimatology of the Eocene-Oligocene transition in western United States." In connection with this work he conducted eight weeks' field work in South Dakota and Utah, collecting specimens and studying the paleogeography of the Eocene-Oligocene transition.

Dr. Eugene S. Richardson, Jr., Curator of Fossil Invertebrates, made several one-day field trips to the Peabody Coal Company's strip mines in Grundy, Will and Kankakee counties, Illinois, where he has, for several years, been collecting elements of a rich and unusual coal-age fauna. He has been studying several of these animals in the laboratory, most notably, a large, soft-bodied worm of uncertain relationships and a sea-cucumber with uniquely excellent preservation. Both of these forms are represented by large suites of specimens.

Research Associate Erik Kjellesvig-Waering completed a manuscript on a revision of the eurypterid superfamily Stylonuracea and continued his studies on the eurypterids and scorpions from the Museum's quarry in the Early Devonian rock of Cottonwood Canyon, Wyoming.

Dr. Robert H. Denison, Curator of Fossil Fishes, has completed his revision of the Cyathaspididae, the earliest family of vertebrates known from more than fragments. It includes 19 genera, which have been found in North America, Europe and Asia in rocks ranging in age from Middle Silurian to Early Devonian.

With Chief Preparator Orville L. Gilpin, Denison returned in July and August to Cottonwood Canyon in the northern part of the Bighorn Mountains of Wyoming. They collected in the Devonian rocks at the same locality that has been worked by Museum parties during three previous seasons. This year's collection was particularly rich in skulls and plates of several different kinds of arthrodires. At the Museum, Curator Denison has been working on the lungfish from the same locality. This is of particular interest and importance because it is the earliest known member of this group of fishes, with the possible exception of a single skull from Germany.

Dr. Rainer Zangerl, Chief Curator of Geology, compiled a bibliography on the subject of biostratonomy. He also continued work on the sharks and other primitive vertebrates from the Pennsylvanian Mecca and Logan Quarry shales of Parke County, Indiana. Fieldwork in the Parke County area, done with Dr. Clark, served the purpose of determining the depositional relationships between the sandstone and the adjacent strata.

William D. Turnbull, Assistant Curator of Fossil Mammals, essentially finished a manuscript on the adaptive types of mammalian masticatory apparatus. Early in August, he embarked on an expedition to southeastern Australia and Tasmania with Dr. Ernest Lundelius of the University of Texas. The expedition was made possible by a grant to the Museum from the National Science Foundation. Mrs. Priscilla Turnbull and Mrs. Judy Lundelius, both

trained geologists, are acting as assistants in the field. The purpose of the expedition is to procure, if possible, mammalian and other vertebrate remains of late Cretaceous and early Tertiary age, but collections of Pleistocene and post-Pleistocene cave faunas will also be made whenever an opportunity presents itself.

Collections—Geology

During 1963, two outstanding specimens were added to the gem collection on exhibit in H. N. Higinbotham Hall. One was a 63.5 carat faceted, pink kunzite from Brazil. The other was a six-inch long single crystal prism of the mineral azurite from Southwest Africa. Azurite only rarely occurs in prismatic crystals, and then usually only in small sizes (less than an inch long).

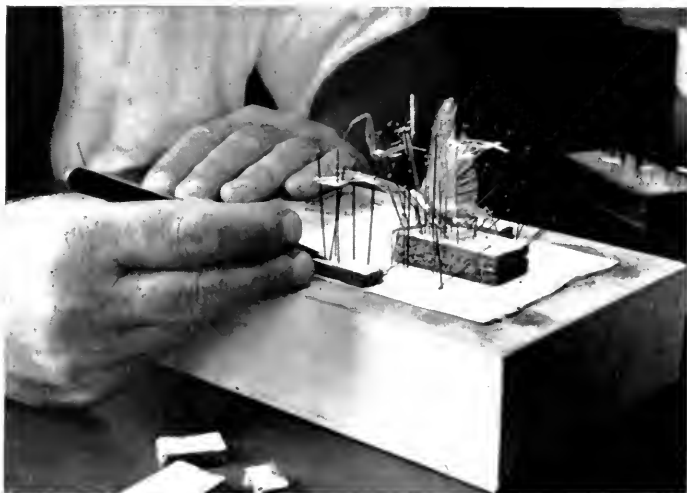
An interesting and valuable gift of rock specimens was received from Dr. Mary Woodland. The specimens come from many classical localities in Great Britain and the eastern United States.

Another outstanding gift was the large ore collection of the late Professor E. S. Bastin. This was received from the Department of Geophysical Sciences, University of Chicago.

A notable collection of 117 specimens of a coal-age holothurian (sea cucumber) was received as a gift from Mr. Kenneth Davenport of Chicago. Mr. Davenport collected the specimens in a part of the Peabody Coal Company's strip mines in Will County, Illinois, where Curator Richardson had advised him to look. However, the particular spot that Mr. Davenport found was one that had not previously been visited. This fortunate discovery points up dramatically the peculiar manner of occurrence of fossils in parts of the strip mining area: certain species are concentrated in small aggregations whose discovery is the reward of continued systematic searching. The specimens contributed by Mr. Davenport are the only specimens of holothurians yet found anywhere in the world that are preserved in such a way as to show not only the tiny mineral "sclerites" in the skin, but also the form of the animal's body.

Exhibits—Geology

Twelve exhibits concerned with the occurrence and economic use of metallic minerals were reinstalled in the Hall of Economic Geology (Hall 36). New backgrounds were added, labels brought up to date and new specimens were added when necessary.



PRAYING MANTIS IN PREPARATION

AND ON DISPLAY IN "THE INSECT WORLD" (HALL 9)



Department of Zoology

Research and Expeditions

Field work by staff members was carried on in North America, Egypt, Sudan, Asia, Philippines, Borneo and Indian Ocean. The Museum financed field work by non-staff members in Malaya and Lord Howe Island, off Eastern Australia.

NORTH AMERICA.—Associate Curator Henry S. Dybas, with Dr. Monte Lloyd of the University of California, spent eight weeks in southern Illinois studying the emergence of the thirteen-year periodical cicadas. This is the third emergence of periodical cicadas Curator Dybas has studied: the first being the 1956 emergence in the Chicago area and, the second, the 1962 emergence in Virginia.

EGYPT AND SUDAN.—Research Associate Harry Hoogstraal continued collecting in connection with his studies of birds as vectors of arthropod-borne diseases.

ASIA.—The Street Expedition to Iran to collect mammals arrived in the field in July, 1962 and terminated in February, 1963 (see Accessions). The expedition personnel consisted of Mr. and Mrs. William Street of Seattle, Contributors to the Museum, and Douglas Lay, currently a Street Fellow of the Museum. In Nepal, Field Associate Robert L. Fleming continued his bird studies and made a trip to the Gandak-Kosi Watershed. In Malaya, Curator Dwight Davis, on leave of absence to teach at the University of Malaya, did some field work and Dr. A. J. Berry of the same University was financed by the Museum to collect mollusks in the limestone hill regions of Northern Malaya.

PHILIPPINE ISLANDS.—Associate D. S. Rabor was supported in part for field work (birds) on Mindanao.

BORNEO.—Curator Robert F. Inger's project of a temporary field station in Borneo for the study of biology of frogs and reptiles was interrupted by local political unrest and the scene of the operations had to be moved farther from the Indonesian frontier. In connection with this transfer Curator Inger spent August and September in Borneo. Dr. Bernard Greenberg of Roosevelt University continues to collaborate with Curator Inger in the program. At the year's end William Hosmer of Melbourne, Australia and graduate student James Bacon were continuing the field work with the trained Dyak staff. Graduate student F. Wayne King returned to the United States.

INDIAN OCEAN.—Curator Loren Woods participated in the International Indian Ocean Expedition, Cruise 4B (November 11–December 12) on board the research vessel *Anton Bruun*.

LORD HOWE ISLAND.—In September and October Mr. Laurie Price of Kaitaia, New Zealand went to Lord Howe Island under our auspices and collected non-marine mollusks from 21 stations on the Island. This collection will be important in helping to solve some of the puzzling zoogeographic aspects and relationships of the snails from this island.

DIVISION OF MAMMALS.—Curator Joseph C. Moore has followed up his earlier studies of beaked whales by a circumglobal study trip which will take him to most of the museums in the world where beaked whale specimens are known to be preserved. He left in September, 1963 and expects to return in March, 1964. Curator Philip Hershkovitz published four papers on South American mammals as part of his continuing work on a check list of South American Mammals. Douglas Lay, the William S. Street Fellow, has completed a report on the field work of the William S. and Janice K. Street Iranian Expedition, of which he was a member, and has begun an account of mammals collected in Iran.

DIVISION OF BIRDS.—Curator Emmet R. Blake published two papers resulting from his studies of South American birds. Associate Curator Melvin A. Traylor published a 250-page *Check-list of Angolan Birds* that will long be the standard reference work for the country. Other African studies by Traylor resulted in several minor papers either published or submitted for publication. He also collaborated with Harry Hoogstraal, Research Associate, on a paper concerning ticks and birds following migration routes between Egypt and Europe and Asia. Curator Traylor's continuing interest in Nepal birds resulted in completion of a paper in collaboration with Field Associate Robert L. Fleming. Chief Curator Austin L. Rand, in collaboration with Dr. E. Thomas Gilliard of the American Museum of Natural History, completed and sent to the publisher the 1300-page manuscript, plus 80 illustrations, of the *Handbook of New Guinea Birds*.

DIVISION OF REPTILES AND AMPHIBIANS.—The taxonomic study of the snake genus *Calamaria* of Asia and East Indies, for which specimens were borrowed from many of the important collections of the world, has been completed by Curator Inger and Assistant Curator Hymen Marx. Manuscript of a study of the Philippine frog, *Cornufer dorsalis*, was prepared by Curator Inger and Dr. Walter Brown of Stanford University. A paper on part of the continuing



STUDENT ASSISTANT IN MAMMAL DIVISION
STUDYING SKULL OF
BEAKED WHALE

Borneo frog studies was published by Curator Inger and Dr. B. Greenberg of Roosevelt University.

Assistant Curator Marx, with Dr. George B. Rabb of the Chicago Zoological Society, started a revision at the generic level of the snake family Viperidae.

DIVISION OF FISHES.—Curator Woods has completed the species accounts of a comprehensive paper on the salt water fishes of the order Berycoidea. The introduction and the keys for identification remain to be done. Associate Marion Gray has in manuscript a paper on the larval and adult forms of certain deep sea fishes.

DIVISION OF INSECTS.—Curator Rupert L. Wenzel expects to publish his studies on the bat-flies of Panama in 1964 as part of the volume *Ectoparasites of Panama*. The editing and compiling of the volume was begun in 1963 as part of a cooperative project under a grant from the Office of Research and Development, Office of the Surgeon General, United States Army. Associate Curator Dybas completed field work on the 1963 periodical cicada emergence (see above) and is analyzing the results.

Research Associate Charles H. Seevers began a generic revision of a group (sub-family Aleocharinae) of rove beetles. Associate Harry Nelson initiated a revision of a genus (*Pelonomus*) of dryopoid beetles.

DIVISION OF LOWER INVERTEBRATES.—Curator Emeritus Fritz Haas has finished two-thirds of his monographic synopsis of the fresh water clams of the world. Only the Australian, African and South American genera remain to be done.

Curator G. Alan Solem submitted seven short manuscripts for publication and has nearly completed a monograph on two genera of land snails (*Isomeria* and *Labyrinthus*) of the American tropics. Statistical analysis of the raw data for Curator Solem's monograph of Pacific Ocean endodontial land snails is near completion and descriptions of all but the last few type specimens have been finished. Dissections of two-thirds of the available Pacific species and 140 drawings of the anatomy have been made with the aid of summer assistant Marcia Oddi.

DIVISION OF ANATOMY.—Curator Davis worked on the editing and proofreading of his monograph on the anatomy of the giant panda. He also continued a study on the hearts of bears. During the latter part of the year Curator Davis was on leave to fill a temporary teaching position at the University of Malaya.

The research program of the Department of Zoology was materially aided by six grants of the National Science Foundation active during 1963.



ARTIST MARION PAHL COMPLETING ILLUSTRATION FOR "THE INSECT WORLD" (HALL 18)

Collections—Zoology

Collections and identified specimens were added from every continent and many islands. The growth of our collections is shown by the following figures: birds—6595; mammals—4694; reptiles and amphibians—10,605; fishes—574; insects—40,746; lower-invertebrates—18,883; anatomy—12; total—82,109 specimens accessioned.

The following are among the year's many outstanding accessions:

The collection of 1649 mammals representing over 100 species from Iran (see Street Iran expedition above) which forms the largest and most comprehensive collection ever made in Iran. It will form the basis of a report which is in progress on the mammals of the area (see p. 52).

The A. I. Good collection of 5866 bird specimens from Cameroon was purchased from the Cleveland Museum of Natural History and

gives us an excellent reference collection from that zoogeographically important part of Africa. This will be essential to Curator Traylor's work on African birds.

In 1961 a most remarkable discovery was made in Alabama of a new genus of salamander, *Phaeognathus*. A gift of seven specimens from Dr. Ronald Brandon brings us our first representatives of this new salamander.

A notable exchange of mollusks with museums in the Pacific area (Honolulu, New Zealand, Australia) brought us some 3300 specimens, with type specimens, personally checked by Curator Solem. These additions are of inestimable value as reference material in Curator Solem's continuing work.

Exhibits—Zoology

For the first time the Museum is presenting an exhibit of major orders of the class Insecta, or insects. Insects are by far the richest in species of any group of animals, are wonderfully diversified, and some are uniquely important to man. This new exhibit, begun last year and finished in 1963, is installed in three cases headed "The Insect World" (Hall 18). Not only does it fill an important place in our overall program of presenting the wealth and diversity of animal life but it is especially useful for school groups studying insects.

Another new exhibit, "January through the Latitudes" (Hall 18), is primarily a teaching exhibit for school groups. Its theme is the variety of seasons during January in different latitudes. The exhibit is installed in five cases, one each, depicting January in the Arctic (winter), North Temperate Zone (winter), Tropics (eternal summer), South Temperate Zone (summer), Antarctic (summer). Though stressing animal life, ideas and material from Botany and Anthropology were borrowed. This exhibit is temporary with many museum specimens used without special preparation. The exhibit may point the way for further exhibits of this type. It is described in more detail in the December, 1963, *Museum Bulletin*, pp. 1, 8.

The routine maintenance, repairing and refurbishing of existing exhibits threatens to overwhelm new creative work. After about two years of full-time work one important repair task has just been completed—that of replacing disintegrated plastic fins with newly carved fins on many of the fishes in Hall O. The original fins were carved from an untested plastic. The replacements are expected to be permanent.

LIBRARY OF THE MUSEUM

PUBLIC RELATIONS

CO-OPERATION

SCIENTIFIC SOCIETIES

PHOTOGRAPHY AND
ILLUSTRATION

PUBLICATIONS AND
PRINTING

MAINTENANCE, CONSTRUCTION
AND ENGINEERING



EDITH FLEMING OF RAYMOND FOUNDATION
CONDUCTS SATURDAY WORKSHOP FOR
MEMBERS' CHILDREN

LIBRARY OF THE MUSEUM

The work of any given year can be estimated fully only in the context of the total library situation over a period of years, which indicates the general course the work is taking and the development of patterns of service by which accomplishments can be measured. A significant factor in the Library's growth is the marked intensification of interest in the Library's resources and its recognition as a regional center for source material on the natural sciences. An increase of almost 50% over last year's usage of the library by visitors other than the staff and their colleagues was noted in 1963.

A research library must grow if it is to maintain the importance of its collections and remain responsive to the needs of its users. In 1963 the Library continued the systematic procurement of currently issued publications on a world-wide scale. It also continued to acquire non-current research materials contributing to the progress of scientific work in the Museum's fields of interest. 2,365 books were received and accessioned, 8,934 issues of periodicals were received on exchange and 10,218 miscellaneous items were also received.

The Library's far-flung network of exchange relations was expanded by the addition of 18 new exchange agreements. The revision of 40 older exchange agreements was made to keep the system operating effectively.

Production in the Cataloging Division was slightly lower than that of last year, but there were increases in the total of new numbers developed in the "Q" Schedule of the Library of Congress classification scheme, and in changes of tracing in connection with the development of subject headings. The project for the creation of a *Subject Headings Authorities File*, begun in 1961, has been progressing steadily and is now revised through the letter L.

The development of the East Asia Library has continued so that there are now 2,164 cards in the East Asian Division card catalog. In addition, there remain preliminary cards for the Berthold Laufer collection, which require further checking before cataloging may proceed. A program was begun to repair and restore some of the older Oriental volumes in the Berthold Laufer collection. The Tibetan collection also falls within the scope of the East Asia Division. Cards for this collection are on file in the East Asia Division card catalog.

On March 13, 1963, the Honorable Paul H. Douglas designated Chicago Natural History Museum Library a United States Government Depository to receive publications under the selective plan of distribution. The designation was accepted on July 17, 1963 by Carper W. Buckley, Superintendent of Documents. This oppor-

tunity is taken to thank Senator Douglas for his interest on our behalf, and Mr. Buckley for the privilege of the depository status we shall enjoy.

The Library received as a gift approximately 9,000 pamphlets from Dr. Orlando Park of Northwestern University. This material, principally in the field of entomology but extending into other scientific fields as well, contains monographs and, in the bulk, reprints of articles. All items representing duplicates in the Library's collection will be distributed to the divisional libraries for inclusion in the pamphlet and reprint files. Mrs. George Tayloe Langhorne gave a number of books on the Philippines to the Library in memory of the late Colonel Langhorne and Walther Buchen. The map collection was enriched by a substantial contribution from the U. S. Army. Two sets of topographic maps of the United States consisting of 3,592 map sheets on the scale 1:25,000 are awaiting cataloging. A collection of books on Egyptology was received from Miss Madeline Lang. Only a few of the many important gifts received are mentioned here. The names of all the donors who contributed so generously to the Library's collection may be found on page 85.

PUBLIC RELATIONS

The breadth of public relations activity in a given year may be measured by the programs and events publicized. During 1963 the Public Relations office publicized eight special exhibits, nine featured exhibits-of-the-month, the spring and fall adult lecture series, two special events—Members' Night and the Holiday Science Lectures, ten programs and activities of the Raymond Foundation, three new permanent exhibits, six expeditions, eleven staff research projects, one major acquisition, and seven additions to staff or honors received by Museum staff.

Publicity tools prepared by the Public Relations staff included flyers, posters, advertising for CTA stations and stations of the Chicago & North Western Railway; radio spot announcements, and TV slides. The staff also wrote press releases, feature articles, and *Bulletin* articles; and photographed exhibits and special events.

Media utilized included the local metropolitan and community newspapers, Sunday newspaper magazine sections, the press of other major cities (including the *New York Times*), all national press and wire services, house organs, magazines (including *Life* and the *Illustrated London News*), and radio and television.

CO-OPERATION WITH OTHER INSTITUTIONS

Dr. Donald Collier, Curator of South American Archaeology and Ethnology, gave four lectures in the Summer Institute in Anthropology, sponsored by the American Association of Museums at the University of Arizona. Dr. Paul S. Martin, Chief Curator of Anthropology, Dr. Collier, Dr. Kenneth Starr, Curator of Asiatic Archaeology and Ethnology, and Mr. George I. Quimby, Curator of North American Archaeology and Ethnology, taught courses at the University of Chicago. The Museum continued to present the course in museology taught by the staff of the Department of Anthropology in co-operation with the University of Chicago. The Museum Fellow for the 1963-64 academic year was Mrs. Georgette Kataoka. Mrs. Kataoka, a graduate student in the Anthropology Department at the University of Chicago, specialized in the anthropology of the Himalayan region, with a special interest in Nepal.

In the closing months of the year arrangements were concluded between the Museum and the Committee on Southern Asian Studies of the University of Chicago to share the services of Mrs. Lhadon Karsip, a Tibetan who recently came to the University from the Far Eastern and Russian Institute of the University of Washington. At the Museum Mrs. Karsip assisted in a variety of activities being carried on in the Division of Asiatic Archaeology and Ethnology.

Dr. Everett C. Olson, Museum Research Associate and Professor of Paleontology at the University of Chicago, conducted his laboratory course on cranial morphology at the Museum.

During the year, the Museum provided specimens of meteorites for major research projects to the following institutions and companies: University of California, Cornell University, General Dynamics Corporation, Harvard University, Illinois Institute of Technology Research Institute, Max Planck Institute for Chemistry, Mainz, West Germany.

Dr. Rupert L. Wenzel, Curator of Insects, and Henry Dybas, Associate Curator of Insects, taught courses at Northwestern University. Dr. Wenzel was appointed a Visiting Professor at Northwestern University, as was Mr. Dybas at Southern Illinois University and D. Dwight Davis, Curator of Vertebrate Anatomy, at the University of Malaya. Curator Davis supervised the graduate studies of Mrs. Hasiana Sjarief of the Institut Teknologi Bandung, Indonesia and Dr. Robert F. Inger, Curator of Amphibians and Reptiles, directed the doctorate programs of University of Chicago students James P. Bacon and Harold Voris.

Fifteen students from Antioch College were employed by the Museum, following a co-operative plan adopted in 1946. Several universities, colleges and societies, in addition to those previously mentioned, used the Museum's facilities, among them De Pauw University, the University of Illinois, Indiana University, the Milwaukee Entomological Society and Roosevelt University. Supervised classes from a number of art schools continued to use the Museum exhibits as part of their regular classwork in various art techniques (see p. 30).

The Chicago Area Science Fair, sponsored by the Chicago Teacher's Science Association, and Chicago Latin Day, sponsored by the Illinois Classical Conference for Latin Students of the Chicago Area, were held in the Museum in May.

Meeting facilities of the Museum were used by various local organizations, including the Children of the Daughters of the American Revolution, the Citizenship Council of the Board of Education of Chicago, the Illinois Audubon Society, the Illinois Orchid Society, Kennicott Club, Orchesis Dance Club of the University of Illinois, and the Regional Council of the Boy Scouts of America.

The Free Concerts Foundation concluded its program of outstanding chamber music in James Simpson Theatre. This year 2 concerts, sponsored by Mrs. J. Dennis Freund, were presented.

ACTIVITIES OF STAFF MEMBERS IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

J. Francis MacBride, Curator of Peruvian Botany, was awarded the degree of Doctor Honores Causa by the Universidad Nacional de San Antonio Abad of Cuzco, Peru, for his contribution to the *Flora of Peru* in the Museum's Fieldiana series. Dr. Louis O. Williams, Curator of Central American Botany, was appointed Associate of the Museo Nacional de Costa Rica, San José, Costa Rica.

Dr. Robert H. Denison, Curator of Fossil Fishes, was re-elected President and Dr. Rainer Zangerl, Chief Curator of Geology, was re-elected Secretary-Treasurer of the Society of Vertebrate Paleontology at the society's annual meetings. Dr. Edward J. Olsen, Curator of Mineralogy, was appointed lecturer in the Department of Geophysical Sciences, University of Chicago.

Dr. Austin L. Rand, Chief Curator of Zoology, was re-elected President of the American Ornithologists' Union at the annual meeting held in Gainesville, Florida. Dwight D. Davis, Curator of Ver-

tebrate Anatomy, was honored with a D.Sc. degree from North Central College. Dr. Davis was also appointed to the editorial board of the *Journal of Morphology*. Dr. Robert F. Inger, Curator of Amphibians and Reptiles, was elected Vice-President of the Society for the Study of Evolution.

E. Leland Webber, Director, was elected Councillor of the American Association of Museums. Miss Edith Fleming and Miss Harriet Smith, Guide Lecturers of the Raymond Foundation, participated in the American Association of Museums' Summer Institute in Anthropology presented at the University of Arizona, June 15 – July 27. Ernest Roscoe, also of Raymond Foundation, was elected Councillor-at-large, Executive Council, of the American Malacological Union.

PHOTOGRAPHY, MOTION PICTURES AND ILLUSTRATION

Major work by the Division of Photography included the completion of two additional series of color transparencies for teaching uses—one series of the new exhibit, "The Insect World," and another of botanical plant models; and more than 18,000 prints of botanical type specimens for distribution to other herbaria. Routine photographs for research, public relations, and for outside purchasers totaled more than 14,000.

Additional prints of the Museum film, "Through These Doors," were purchased to aid in satisfying the demand for showings outside the Museum, primarily to school groups preparing for a class visit. Routine checking, cleaning, and repair of footage in the film library were completed.

The Division of Illustration, although operating with fewer personnel, accomplished much during the year and maintained the work schedule on a reasonably current basis. Major responsibility was undertaken for three special exhibits; approximately 85 drawings were completed for the permanent exhibit, "The Insect World"; scientific illustration and public relations design work were carried on concurrently.

PUBLICATIONS, BOOK SHOP AND PRINTING

Sales of Museum publications reached a record high for the sixth consecutive year, totaling 77,584 copies. Exchange distribution to-

taled 23,006 copies, almost exclusively scientific publications. In addition, 28,787 copies of Museum Storybooks and other children's material were sold by the Book Shop, which is the outlet for all reading matter for children published by the Museum. Sales in the Book Shop were \$182,530.27.

The publications issued by the Museum during 1963 are listed on the following pages. Virtually all were printed by the Museum Press. Total copies printed were 84,272 from 1940 pages of type composition. Twelve issues of Chicago Natural History Museum Bulletin were printed, averaging 10,087 copies per issue.

ILLUSTRATION FROM MUSEUM STORYBOOK
"BIBLE ANIMALS"



MUSEUM PUBLICATIONS IN 1963

DEPARTMENT OF ANTHROPOLOGY

BINFORD, LEWIS R., and GEORGE I. QUIMBY

Indian Sites and Chipped Stone Materials in the Northern Lake Michigan Area. Fieldiana: Anthropology, vol. 36, no. 12, 31 pp., 9 illus.

DEPARTMENT OF BOTANY

MCVAUGH, ROGERS

Flora of Guatemala, Fieldiana: Botany, vol. 24, pt. vii, no. 3, 128 pp., 7 illus.
Tropical American Myrtaceae, II. Fieldiana: Botany, vol. 29, no. 8, 141 pp., 3 illus.

STANDLEY, PAUL C., and LOUIS O. WILLIAMS

Flora of Guatemala. Fieldiana: Botany, vol. 24, part vii, no. 4, 169 pp., 39 illus.

WILLIAMS, LOUIS O.

Tropical American Plants, V. Fieldiana: Botany, vol. 29, no. 10, 44 pp., 3 illus.

WURDACK, J. J.

An Evaluation of the Genus Poteranthera. Fieldiana: Botany, vol. 29, no. 9, 9 pp., 1 illus.

DEPARTMENT OF GEOLOGY

DENISON, ROBERT H.

New Silurian Heterostraci from Southeastern Yukon. Fieldiana: Geology, vol. 14, no. 7, 37 pp., 25 illus.

KJELLESVIG-WAERING, ERIK N.

Pennsylvanian Invertebrates of the Mazon Creek Area, Illinois (Eurypterida). Fieldiana: Geology, vol. 12, no. 6, 24 pp., 13 illus.

NITECKI, MATTHEW H.

Catalogue of Type Specimens in the Walker Museum of Paleontology and Chicago Natural History Museum (Radiolaria and Eurypterica). Fieldiana: Geology, vol. 13, no. 3, 23 pp., 7 illus.

OSTROM, JOHN H.

Parasaurolophus cyrtocristatus, a Crested Hadrosaurian Dinosaur from New Mexico. Fieldiana: Geology; vol. 14, no. 8, 26 pp., 7 plates, 5 illus.

ZANGERL, RAINER, and EUGENE S. RICHARDSON, JR.

The Paleocological History of Two Pennsylvanian Black Shales. Fieldiana: Geology, Memoirs, vol. 4, 364 pp., 56 plates, 51 illus.

DEPARTMENT OF ZOOLOGY

BORGMEIER, THOMAS

A New Species of Megaselia from Arizona (Diptera, Phoridae). Fieldiana: Zoology, vol. 44, no. 17, 3 pp., 1 illus.

LAURENT, R. F.

A New Frog of the Genus Kassina From Northern Rhodesia. Fieldiana: Zoology, vol. 44, no. 18, 4 pp., 1 illus.

THEODOR, OSKAR

Philippine Batflies of the Family Nycteribiidae (Diptera, Pupipara). Fieldiana: Zoology; vol. 42, no. 11, 42 pp., 51 illus.

JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION

SMITH, HARRIET

Prehistoric People of Illinois. Museum Storybook [9 Museum Stories], 22 pp., 8 illus., paperbound.

OTHER MUSEUM PUBLICATIONS

Report of the Director to the Board of Trustees for the Year 1962. 165 pp., 18 illus.

WILLIAMS, LOUIS O. (editor)

Homage to Standley. 117 pages, 8 illus.

CHICAGO NATURAL HISTORY MUSEUM BULLETIN

Chicago Natural History Museum Bulletin, vol. 34 (1963), 12 nos., 96 pp., illus.

ARTICLES AND REVIEWS BY STAFF MEMBERS OF CHICAGO NATURAL HISTORY
MUSEUM IN VOLUME 34 OF THE BULLETIN

ARADO, MARILYN JINDRICH

Coral Reef Collecting in Tahiti, no. 7, pp. 2-3, 5, 3 illus.

COLLIER, DONALD

A Maya Ball Game, no. 9, pp. 2, 8, 3 illus. and cover picture.

DYBAS, HENRY S.

The Insect World, no. 3, pp. 2-3, 8, 2 illus.

The Periodical Cicada: A Report on Current Field Studies, no. 10, pp. 6-8, 3 illus., 1 map.

HAAS, FRITZ

Memory Magic, no. 6, pp. 6-7, 1 illus.

HARRISON, WANDA O.

The Legend of Willow Ware, no. 11, pp. 6-8, 4 illus.

INGER, ROBERT F.

Field Experiment in Sarawak, no. 9, pp. 4-5, 2 illus.

MARTIN, PAUL S.

Trash + Computer = Archaeology, no. 6, pp. 2-3, 7, 3 illus.

MILLAR, JOHN R.

New Hall of Useful Plants, no. 4, pp. 2, 8, 1 illus.

MOORE, JOSEPH CURTIS

The Goose-Beaked Whale. Where in the World?, no. 2, pp. 2-3, 8, 3 illus. 1 map.

The Weddell Seal, no. 7, pp. 6-7, 1 illus.

NELSON, PAULA R.

Stone Chips Tell a Tale, no. 12, pp. 6, 7, 1 illus.

QUIMBY, GEORGE I.

A Maple Sugar Camp 200 Years Ago, no. 3, pp. 6-7, 1 illus.

RAND, AUSTIN L.

January Through the Latitudes, no. 12, pp. 2, 8, 2 illus.

RICHARDSON, E. S., JR.

Some of Chicago's Oldest Inhabitants, no. 11, pp. 2-3, 5, 1 illus., and cover picture.

SOLEM, G. ALAN

Pacific Snail Trail, no. 4, pp. 4-5, 7, 2 illus.; and no. 5, pp. 6-7, 1 illus.

STARR, KENNETH

Collecting with a Purpose, no. 5, pp. 2-3, 7, 8, 9 illus. and cover picture.

WOODLAND, BERTRAM G.

Glaciers, no. 1, pp. 2-4, 8, illus. and cover picture.

WOODS, LOREN P.

The Bahama Coral Reef, no. 8, pp. 6-7, 4 illus.

OTHER PUBLICATIONS OF STAFF MEMBERS IN 1963

DEPARTMENT OF ANTHROPOLOGY

COLLIER, DONALD

"Archaeological Investigations in the Casma Valley, Peru." *Proceedings of the 34th International Congress of Americanists, Vienna*, pp. 411-417.

"An Incised Mochica Knife of Copper." *American Antiquity*, vol. 29, no. 1, pp. 104-105.

MARTIN, PAUL S.

"Archaeological Investigations in East Central Arizona." *Science*, vol. 138, no. 3542, pp. 825-827.

QUIMBY, GEORGE I.

REVIEW OF *Indian Rock Paintings of the Great Lakes* (by Selwyn Dewdney and Kenneth E. Kidd). *American Journal of Archaeology*, vol. 67, no. 1, pp. 114-115.

"The Old Copper Culture and the Copper Eskimos, an hypothesis." In "Pre-historic Cultural Relations Between the Arctic and Temperate Zones of North America" (edited by John M. Campbell), *Arctic Institute of North America Technical Paper*, no. 11, pp. 76-79. Montreal.

"A New Look at Geochronology in the Upper Great Lakes Region." *American Antiquity*, vol. 28, no. 4, pp. 558-559.

"A Brief Note on the Codex Canadensis." *Ethnohistory*, vol. 10, no. 4, pp. 396-397.

"Late Period Copper Artifacts in the Upper Great Lakes Region." *The Wisconsin Archeologist*, vol. 44, no. 4, pp. 193-198.

STARR, KENNETH

"Cultural Problems on Nationalist Taiwan." *France-Asie/Asia*, new series, vol. 18, nos. 175-176, pp. 539-560.

REVIEW OF *Substance and Symbol in Chinese Toggles—Chinese Belt Toggles from the C. F. Bieber Collection* (by Schuyler Cammann). *Journal of Asian Studies*, vol. 22, no. 4, pp. 483-484.

DEPARTMENT OF BOTANY

STANDLEY, PAUL C., and WILLIAMS, LOUIS O.

"A New *Miconia* (Melastomaceae) from Costa Rica." *Brittonia*, vol. 15, pp. 25-26.

WILLIAMS, LOUIS O.

"Paul Carpenter Standley, 1884-1963." *Taxon*, vol. XII, no. 7, pp. 245-247.

"Economic Botany: Report of Conference, Trinidad, July, 1962." *Bulletin of the Association for Tropical Biology*, no. 1, part 1, pp. 34-36.

"Economic Botany in the Neotropics." *Bulletin of the Association for Tropical Biology*, no. 1, part 1, pp. 100-101.

DEPARTMENT OF GEOLOGY

CLARK, JOHN

"Hunza in the Himalayas." *Natural History*, vol. 72, no. 8, pp. 39-45.

REVIEW OF "Hindus of the Himalayas" (by Gerald D. Berreman). *Natural History*, vol. 72, no. 9, pp. 8-9.

OLSEN, EDWARD J.

"Fluorescent Minerals," *Gems and Minerals Magazine*, vol. 305, pp. 50-53

"Equilibrium Calculations in the System Mg, Fe, Si, O, H, and Mi." *American Journal of Science*, vol. 261, no. 10, pp. 943-956.

WOODLAND, BERTRAM G.

"A Petrographic Study of Thermally Metamorphosed Pelitic Rocks in the Burke Area, Northeastern Vermont." *American Journal of Science*, vol. 261, no. 4, pp. 354-375.

ZANGERL, RAINER

"Preliminary results of a restudy of *Corosaurus alcorenensis* Case, the only known new world nothosaur." University of Wyoming, *Contributions to Geology*, vol. 2, no. 2, pp. 117-124, 7 pls.

DEPARTMENT OF ZOOLOGY

BLAKE, EMMET R.

"The Birds of Southern Surinam." *Ardea*, vol. 51, pp. 53-72.

"Variation in the Short-eared Owls of South America." *Novedades Colombianas*, vol. 1, no. 6, pp. 361-373.

FLEMING, ROBERT L.

"Occurrence of the Orange-rumped Honey Guide." *Paro: The Indian Journal of Ornithology*, vol. 1, pp. 66-67.

GREY, MARION

"Rediscovery of the type specimen of *Alepocephalus owstoni* Tanaka 1908." *Copeia*, vol. 1963, no. 2, p. 457.

HAAS, FRITZ

"Zur Unionidenfauna von Afrika." *Archiv für Molluskenkunde*, vol. 91, pp. 215-216.

HERSHKOVITZ, PHILIP

"A Systematic and Zoogeographic Account of the Monkeys of the Genus *Callicetus* (Cebidae) of the Amazonas and Orinoco River Basins." *Mammalia*, vol. 27, no. 1, pp. 1-79.

"Notes on South American Dolphins of the Genera *Inia*, *Sotalia*, and *Tursiops*." *Journal of Mammalogy*, vol. 44, no. 1, pp. 98-103.

"The Nomenclature of South American Peccaries." *Proceedings of the Biological Society of Washington*, vol. 76, pp. 85-88.

"The Recent Mammals of South America." *Proceedings of the XVI International Congress of Zoology*, Washington, D. C., vol. 4, pp. 40-45.

INGER, ROBERT F., and BERNARD GREENBERG

"The Annual Reproductive Pattern of the Frog *Rana erythraea* in Sarawak." *Physiological Zoology*, vol. 36, pp. 21-33.

LAY, DOUGLAS M., and H. J. WERNER

"Morphologic Aspects of the Chest Gland of the Bat *Molossus ater*." *Journal of Mammalogy*, vol. 44, no. 4, pp. 552-555, 2 pls.

MOORE, JOSEPH CURTIS, and EUGENIE CLARK

"Discovery of Right Whales in the Gulf of Mexico." *Science*, vol. 141, no. 3577 p. 269.

"Recognizing Certain Species of Beaked Whales of the Pacific Ocean." *American Midland Naturalist*, vol. 70, no. 2, pp. 396-428.

REVIEW OF *Introduction to Mammalogy* (by E. Lendell Cockrum). *American Midland Naturalist*, vol. 70, no. 1, pp. 251-252.

REVIEW OF *Whales* (by E. J. Slijper). *Science*, vol. 140, no. 3563, pp. 166-167.

SOLEM, G. ALAN

"*Eudolichotus* from British Guiana." *Journal of Conchology*, vol. 25, part 5, p. 192-195.

"Life Along the Sea Shore," 32 pp. [Encyclopaedia Britannica Press].

"On the Identities of *Triria buttoni* and *Triria galapagensis* Melville, 1900 (Mollusca: Gastropoda)." *The Veliger*, vol. 6, part 1, pp. 20-22, 4 pls.

TRAYLOR, MELVIN A.

"Check-list of Angola Birds." *Companhia Diamantes de Angola, Publicações Culturais*, no. 61, pp. 1-250.

"Revision of the Quail Finch *Ortygospiza atricollis*." *Bulletin of the British Ornithologists' Club*, vol. 83, pp. 141-146.

"Ticks (Ixodidae) on Birds Migrating from Europe and Asia to Africa, 1959-1961." *Bulletin World Health Organization*, vol. 28, pp. 235-262 [with Harry Hoogstraal et al.].

REVIEW OF *Revised Check List of African Birds*, parts 1-4 (by C. M. N. White). *The Auk*, vol. 80, pp. 560-561.

JAMES NELSON AND ANNA LOUISE RAYMOND FOUNDATION

ROSCOE, ERNEST J.

"Stratigraphic Summary of Quaternary Bonneville Basin Mollusca." *Sterkiana*, no. 9, pp. 1-23.

"Snails and Archaeology in the Great Basin." *American Anthropologist*, vol. 65, no. 1, pp. 134-135.

"The Basic Problems of Life as a Central Theme in Neo- and Paleozoology." *Turtor News*, vol. 41, no. 4, pp. 106-107.

"The Great Basin in the Quaternary." *Geotimes*, vol. 8, no. 2, pp. 14-15.

"Primary Type Specimens in the University of Utah Collection." *Sterkiana*, no. 11, pp. 51-52.

REVIEW OF "Fossils, a Guide to Prehistoric Life" (by H. T. Rhodes, H. S. Zim and P. R. Shaffer). *Journal of Geological Education*, vol. 11, no. 3, pp. 105-106.

"Some Goniobases in Western United States." *Nautilus*, vol. 77, no. 2, pp. 43-47, 4 illus.

MAINTENANCE, CONSTRUCTION, AND ENGINEERING

Completion of construction work in the Hall of Useful Plants (Hall 28) and the permanent exhibition, "China in the Ch'ing Dynasty," (Hall 32) during the year permitted the deployment of personnel to two major special exhibits, "Space Geology" and "Antarctica" and to construction work prior to reinstallation of the Haseltine sculptures of British Champion Animals in Hall 19.

The lunch room serving area was remodeled; fire hoses, racks, and valves were replaced in all fire protection locations throughout the building; and major reinstallation was accomplished in the boiler stack and breeching.

Further plans were made to meet growing Museum needs for space, principally for the Department of Geology and the Library.

ATTENDANCE STATISTICS

FINANCIAL STATEMENTS

LIST OF ACCESSIONS

LIST OF MEMBERS

"PARADE OF TREASURES FROM PUNT"
FROM MUSEUM STORYBOOK
"HOLIDAY IN ANCIENT EGYPT"



COMPARATIVE ATTENDANCE STATISTICS AND DOOR RECEIPTS

FOR THE YEARS 1963 AND 1962

	1963	1962
Total attendance.....	1,409,633	1,470,424
Paid attendance.....	189,652	217,386
Free admissions on pay days		
Students.....	70,998	67,283
School children.....	228,112	216,324
Teachers.....	14,961	13,667
Members.....	2,386	1,637
Service men and women.....	1,048	902
Special meetings and occasions.....	8,416	9,439
Admissions on free days		
Thursdays.....	187,930	180,191
Saturdays.....	345,823	357,103
Sundays.....	360,307	406,492
Highest attendance on any day..(November 30)	17,444	(July 15) 29,472
Lowest attendance on any day....(January 14)	320	(January 15) 248
Highest paid attendance.....(August 13)	3,895	(July 4) 9,108
Average daily admissions.....	3,894	4,050
Average paid admissions.....	921	1,050

CHICAGO NATURAL HISTORY MUSEUM
 COMPARATIVE STATEMENT OF RECEIPTS
 AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1963 AND 1962

GENERAL OPERATING FUND

RECEIPTS	1963	1962
Endowment income		
From investments in securities	\$ 735,842	\$ 709,802
From investments in real estate	112,000	112,000
	<u>\$ 847,842</u>	<u>\$ 821,802</u>
Chicago Park District—tax collections	\$ 360,985	\$ 360,185
Annual and sustaining memberships	33,610	33,402
Admissions	47,413	54,346
Sundry receipts	105,883	136,983
Restricted funds transferred to apply against Operating Fund expenditures	213,041	171,045
	<u>\$1,608,774</u>	<u>\$1,577,763</u>
 EXPENDITURES		
Operating expenses		
Departmental	\$ 705,554	\$ 660,106
General	628,055	626,801
Building repairs and alterations	118,245	132,388
	<u>\$1,451,854</u>	<u>\$1,419,295</u>
 Collections: purchases and expedition costs	\$ 103,515	\$ 111,035
Furniture, fixtures and equipment	31,516	25,276
Provision for mechanical plant depreciation	22,486	22,486
	<u>\$1,609,371</u>	<u>\$1,578,092</u>
DEFICIT FOR YEAR	<u>\$ 597</u>	<u>\$ 329</u>

AUDITOR'S CERTIFICATE APPEARS ON FOLLOWING PAGE

CONTINUED ON NEXT PAGE

CHICAGO NATURAL HISTORY MUSEUM

COMPARATIVE STATEMENT OF RECEIPTS
AND EXPENDITURES—CURRENT FUNDS

FOR THE YEARS 1963 AND 1962 (CONTINUED)

N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND

	1963	1962
Income from endowments.....	\$ 38,386	\$ 36,604
Expenditures.....	34,961	24,359
SURPLUS FOR THE YEAR.....	<u>\$ 3,425</u>	<u>12,245</u>

OTHER RESTRICTED FUNDS

RECEIPTS

From Specific Endowment Fund investments.....	\$ 96,087	\$ 92,942
Contributions for specific purposes.....	130,229	82,552
Operating Fund appropriation for mechanical plant depreciation.....	22,486	22,486
Sundry receipts.....	63,656	66,571
Gain on sale of restricted fund securities.....	1,456	60
	<u>\$ 313,914</u>	<u>\$ 264,611</u>

EXPENDITURES

Transferred to Operating Fund to apply against expenditures.....	\$ 213,041	\$ 171,045
Added to Endowment Fund principal.....	73,000	60,000
	<u>\$ 286,041</u>	<u>\$ 231,045</u>

EXCESS OF RECEIPTS OVER EXPENDITURES.....	<u>\$ 27,873</u>	<u>\$ 33,566</u>
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THE TRUSTEES,
CHICAGO NATURAL HISTORY MUSEUM:

We have examined the accompanying comparative statement of receipts and expenditures—current funds of the Chicago Natural History Museum for the year ended December 31, 1963. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the statement mentioned above presents fairly the receipts and expenditures of the current funds of the Chicago Natural History Museum for the year ended December 31, 1963, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

ARTHUR YOUNG & COMPANY

January 13, 1964

USE DURING 1963 OF SPECIAL FUNDS CONTRIBUTED IN FORMER YEARS

EDWARD E. AYER LECTURE FOUNDATION FUND	
Cost of Museum Lecture Series.....	\$ 4,772.50
Subsidy to Publication Program.....	1,924.37
FREDERICK AND ABBY KETTELLE BABCOCK FUND	
Subsidy to Publication Program.....	2,442.09
EMILY CRANE CHADBOURNE ZOOLOGY FUND	
Purchase of specimens.....	653.50
MRS. JOAN A. CHALMERS BEQUEST FUND	
Purchase of specimens.....	808.88
Laboratory equipment and supplies.....	447.53
Field trip to South Dakota.....	400.00
CONOVER GAME-BIRD FUND	
Purchase of specimens.....	651.21
Dr. D. S. Rabor, field trip.....	1,000.00
Dr. Robert Fleming, field trip.....	250.00
THOMAS J. DEE FELLOWSHIP FUND	
Fellowship grants to:	
Gibamitra Gangopdhyay.....	100.00
Taiji Tammura.....	250.00
Peter J. Hocking.....	369.00
Mrs. Priscilla Turnbull.....	625.00
GROUP INSURANCE FUND*	
Group insurance cost.....	7,043.83
N. W. HARRIS PUBLIC SCHOOL EXTENSION FUND	
Preparation, care, and distribution of exhibits to Chicago schools.....	34,961.08
LIBRARY FUND†	
Purchase of books and periodicals.....	3,995.54
PURCHASE FUNDS	
Anthropology Purchase Fund.....	335.00
Geology Purchase Fund.....	148.97
JAMES NELSON AND ANNA LOUISE RAYMOND PUBLIC SCHOOL AND CHILDREN'S LECTURE FUND	
Subsidy to public school and children's lecture programs.....	40,992.52
MAURICE L. RICHARDSON PALEONTOLOGICAL FUND	
Purchase of specimens.....	275.00
Laboratory equipment.....	1,092.77
Field trip to Wyoming.....	568.89
Field trip to Indiana.....	200.00
Field trip in Illinois.....	209.83
HOMER E. SARGENT FUND	
Conservation laboratory costs.....	154.35
KARL P. SCHMIDT FUND	
Study grants.....	275.00

These funds have been used in accordance with the stipulations under which they were accepted by the Museum. In addition, the income from more than \$16,000,000 of unrestricted endowment funds was used in general Museum operation.

*Established by Stanley Field

†Established by Edward E. Ayer, Huntington W. Jackson, Arthur B. Jones,
Julius and Augusta N. Rosenwald

Contributions and Bequests

Contributions and bequests to Chicago Natural History Museum may be made in securities, money, books, or collections. They may, if desired, take the form of a memorial to a person or cause, to be named by the giver. For those desirous of making bequests to the Museum, the following form is suggested:

FORM OF BEQUEST

I do hereby give and bequeath to Chicago Natural History Museum of the City of Chicago, State of Illinois:

Cash contributions made within the taxable year to Chicago Natural History Museum to an amount not in excess of 30 per cent of the taxpayer's net income are allowable as deductions in computing net income for federal income tax

ACCESSIONS IN 1963

DEPARTMENT OF ANTHROPOLOGY

BIEBER, MISS CAROLINE FRANCES, Santa Fe, New Mexico: Lion Dog collection, 1 Chinese child's doll, 1 Chinese Ch'ing dynasty table, 3 illustrated booklets—China (gift)

BUCK, MRS. VICTORIA E., Chicago: 2 Chinese seals (stamps)—China (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. Paul S. Martin (Southwest Archaeological Expedition, 1963): 2415 specimens, including bone, stone, and whole pots, and 31,000 sherds, all from Broken "K" Site—Arizona

FULLER, MRS. A. W. F., London: 193 pieces from Benin and related areas; 32 pieces from other parts of Nigeria, the Congo, Ivory Coast, Sierra Leone and South Africa—Africa (gift)

GAUHATI UNIVERSITY, Assam, India: 11 Neoliths from Garo Hills—Assam, India (exchange)

GOLDSMITH, JULIAN R., Chicago: 2 pre-Columbian ceramic pieces from western Mexico, and 1 stone carving from Guerrero—Mexico (gift)

HOFFMAN, MISS MALVINA, New York: 1 bone ceremonial costume from Tibet, and folio of photographic prints, part of source material used when preparing sculptured figures now in Hall 3 (gift)

HOOGSTRAAL, DR. HARRY, Cairo, Egypt: 2 painted coverings for mummies, adult and child; 1 painted piece of linen, paper and plaster from a mummy wrapping; and 1 piece of linen, fragile and fragmentary—Egypt (gift)

HUTH, FRANK D., Chicago: 3 birch bark bitings (patterns bitten into thin-sheets of birch bark), Cree Indians—Beaver Lake, Saskatchewan, Canada (gift)

LEOPOLD, PROFESSOR W. F., Evanston, Illinois: 4 pre-Columbian pottery vessels—Costa Rica (gift)

MCATEE, MRS. VIOLA A., Chicago: 2 Lion Dogs—China (gift)

MEYER, DR. JOHN H., Chicago: 1 marimba, 4 drums, 1 pair of rattles—Esmeraldas Province, Ecuador (gift)

MOYER, JOHN, Chicago: 1 page from the 12th chapter of the "Gita" (the bible of the Hindus)—Orissa Province, India (gift)

SLIUPAS, MR. AND MRS. VYTAUTAS, Chicago: 13 ethnological objects—Liberia (gift)

STUDLEY, REV. (MISS) ELLEN M., Chicago: 64 ethnological and 1 archaeological specimens from China; 2 ethnological specimens from Korea, 2 from Taiwan and 1 from India—Asia (gift)

TEMPLETON, CLAYTON, Woodworth, Wisconsin: 24 ethnological specimens from Carja, Tapirape and Sherente Indians—Araguaya and Tocantins Rivers, Brazil (gift)

VOLLAND, MRS. GERTRUDE, Homewood, Illinois: 1 piece of batik and 4 wax cups for making batik—Java (gift)

VYMOLA, A2C KENNETH L., Scott Air Force Base, Illinois: 2 prehistoric pottery vessels and stone arrowhead—Veraguas Province, Panama (gift)

WARE, LOUIS, Winnetka, Illinois: 1 Royal Bokhara rug and 1 Persian rug—Central Asia and Persia (gift)

WIESE, RAYMOND J., Chicago: 36 ethnological specimens—Paraguay (gift)

WILLIAMS, DR. AND MRS. LOUIS O., Park Forest, Illinois: 1 gold frog—Costa Rica (gift)

ZINGG, MRS. MABEL B., Portland, Oregon: 4 Tarahumara sashes and 1 Huichol bag—Chihuahua and Nayarit, Mexico (gift)

DEPARTMENT OF BOTANY

ARCHER, DR. W. ANDREW, Washington, D. C.: 3 samples of *Salix* "diamond wood" (gift)

ARIZONA, UNIVERSITY OF, Tucson: 46 slides of fern spores (exchange)

BENNETT, HOLLY REED, Chicago: 2,377 vascular plants (gift)

BERNICE P. BISHOP MUSEUM, Honolulu, Hawaii: 170 vascular plants (exchange)

BOLD, DR. H. C., Austin, Texas: 11 specimens of algae (gift)

BRITISH MUSEUM (NATURAL HISTORY), London: 383 vascular plants (exchange)

CALIFORNIA, UNIVERSITY OF, Berkeley: 135 cryptogams and 87 vascular

plants (exchange) and 165 vascular plants (Fifth and sixth Expeditions to the Andes, in which this Museum participated by financial contribution)

CHICAGO NATURAL HISTORY MUSEUM:

Collected by Janice K. Street (The William S. and Janice K. Street Iranian Expedition of Chicago Natural History Museum, 1962-63): 57 vascular plants

Collected by Dr. John W. Thieret (Northwest Territories Botanical Expedition, 1961-62): 2 specimens of *Arabis*

Collected by Dr. Louis O. Williams (Guatemala Botanical Expedition, 1962-63): 5,000 plant specimens; (Central America Botanical Field Work, 1963, in cooperation with the Escuela Agrícola Panamericana of Honduras and the Museo Nacional, San Jose, Costa Rica): 8,000 plant specimens

Purchases: 70 ferns from Borneo and Malaya, and 611 photographs of type-specimens of *Solanum*

COASTAL STUDIES INSTITUTE, Baton Rouge, Louisiana: 82 vascular plants (gift)

COLORADO, UNIVERSITY OF, Boulder: 60 lichen specimens (exchange)

ESCUELA AGRICOLA PANAMERICANA, Tegucigalpa, Honduras: 880 vascular plants (exchange)

GIBSON, ROBERT, Waukegan, Illinois: 9 specimens of fungi (gift)

GRAY HERBARIUM, HARVARD UNIVERSITY, Cambridge, Massachusetts: 305 vascular plants (exchange)

GREGG, DR. CLIFFORD C., Valparaiso, Indiana: 3 cryptogams (gift)

HELLER, A. H., Managua, Nicaragua: 136 vascular plants (gift)

HERBARIO "BARBOSA RODRIGUES," Itajai, Brasil: 245 vascular plants and 5 mosses (exchange)

IBARRA, DR. JORGE A., Guatemala City, Guatemala: 1 specimen of *Pogonopus speciosus* (gift)

ILLINOIS STATE NATURAL HISTORY SURVEY, Urbana, Illinois: 145 vascular plants (exchange)

INSTITUTO BOTANICO, Caracas, Venezuela: 352 vascular plants (exchange)

IOWA, STATE UNIVERSITY OF, Iowa City, Iowa: 34 vascular plants (exchange)

JARDIM BOTANICA DO RIO DE JANEIRO, Brasil: 50 vascular plants (exchange)

JURICA, THE REV. FATHER HILARY, Lisle, Illinois: 5 cryptogams (gift)

KANSAS, UNIVERSITY OF, Lawrence, Kansas: 1 isotype specimen of *Ratibada latipales* (gift)

KAPLAN, DR. LAWRENCE, Chicago: 97 vascular plants (gift)

LAKELA, DR. OLGA, Tampa, Florida: 3 specimens of *Polycarpha nebulosa* (gift)

LANKESTER, CHARLES H., Moravia, Costa Rica: 1 type-fragment of *Cotharexylum Lankesteri* (gift)

LAUGHLIN, KENDALL, Chicago: 1 isotype specimen of *Quercus x riparia* (gift)

LITTLE, DR. E. L., JR., Washington, D. C.: 25 specimens of woody plants (gift)

MARTINEZ, PROF. MAXIMINO, Cd. Universitaria, Mexico: 3 isotype specimens of vascular plants (gift)

MICHIGAN, UNIVERSITY OF, Ann Arbor, Michigan: 426 vascular plants (exchange)

MINNESOTA, UNIVERSITY OF, Minneapolis: 30 vascular plants and 197 cryptogams (exchange)

MISSOURI BOTANICAL GARDEN, St. Louis: 668 vascular plants (exchange)

MUSEU PARAENSE EMILIO GOELDI, Belém, Pará, Brasil: 1 isotype specimen of *Diospyros egeri* (gift)

NATIONAL MUSEUM OF CANADA, Ottawa, Ontario: 120 bryophytes (exchange)

NELSON, DR. E. M., San Juan, Puerto Rico: 3 specimens of *Asclepias* (gift)

NEW YORK BOTANICAL GARDEN, Bronx Park: 319 vascular plants (exchange)

OULU, UNIVERSITY OF, OULU, FINLAND: 150 vascular plants (exchange)

PULESTON, JENNIFER, Brookhaven, New York: 4 specimens of fungi (gift)

RAKAUSKAS, WILLIAM, Chicago: 6 specimens of fungi (gift)

REICH, ROBERT J., Chicago: 4,855 vascular plants and 645 cryptogams (gift)

ROYAL BOTANIC GARDENS, Kew, Surrey, England: 18 photographs of type specimens of Bignoniaceae (exchange)

SAUNDERS, DONALD, Skokie, Illinois: 15 specimens of fungi (gift)

SHERFF, DR. EARL E., Hastings, Michigan: 44 vascular plants (gift)

SKUTCH, DR. ALEXANDER F., San Isidro, Costa Rica: 42 vascular plants (gift)

SOUTHWESTERN LOUISIANA, UNIVERSITY OF, Lafayette, Louisiana: 40 vascular plants (exchange)

STOLZE, ROBERT G., Norridge, Illinois: 88 vascular plants (gift)

TEXAS RESEARCH FOUNDATION, Renner, Texas: 870 vascular plants (exchange)

THIERET, DR. JOHN W., Lafayette, Louisiana: 26 vascular plants (gift)

TOKYO, UNIVERSITY OF, Japan: 230 vascular plants (exchange)

UNITED STATES FOREST PRODUCTS LABORATORY, Madison, Wisconsin: 415 specimens of woody plants (exchange)

UNITED STATES FOREST SERVICE HERBARIUM, Washington, D. C.: 90 bryophytes (exchange)

UNITED STATES NATIONAL ARBORETUM, Washington, D. C.: 97 vascular plants (exchange)

UNITED STATES NATIONAL MUSEUM, Washington, D. C.: 1 type-fragment of *Pentaplaris doroteae* (exchange)

UZZELL, ANN, Bass River, New Jersey: 2 specimens of *Drosera* (gift)

WILLIAMS, DR. LOUIS O., Park Forest, Illinois: 3 vascular plants (gift)

WISCONSIN, UNIVERSITY OF, Madison, Wisconsin: 1,637 specimens of fungi and 31 vascular plants (exchange)

DEPARTMENT OF GEOLOGY

ACADEMY OF SCIENCES, PALEONTOLOGICAL INSTITUTE, Moscow, U.S.S.R.: V-71 *Cast of Estemennosuchus* Skull—(exchange)

ALBERTA, UNIVERSITY OF, Edmonton, Alberta, Canada: Meteorite—Peace River, Alberta, Canada (exchange); stone meteorite—Bruderheim, Alberta, Canada (exchange)

AMERICAN MUSEUM OF NATURAL HISTORY, New York: casts of Uintathere skull and jaws—locality unknown (gift); specimen of *Bothriolepis Canadensis*—Quebec (exchange)

AUGUSTANA COLLEGE, Rockford, Illinois: *Andnogmius* skull and *Ichthyodectes* skull—locality unknown (exchange)

BAKER, SID, British Columbia, Canada: five mineral specimens—locality unknown (exchange)

BARNES, MISS THEA AND MISS PAMELA LIPSCOMB, Chicago: Silurian trilobite—locality unknown (gift)

BRIGHAM YOUNG UNIVERSITY, Provo Utah: 1 block containing fossil fish—Utah (exchange)

BRITISH MUSEUM (NATURAL HISTORY), London: cast of skull and jaws of *Paracyclotosaurus davidi*—Australia (exchange)

CALIFORNIA, UNIVERSITY OF, Berkeley: 25 casts of mammal specimens—locality unknown (exchange)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. John Clark (South Dakota and Utah Geological Field Trip, 1963): various minerals and fossils—South Dakota

Collected by Dr. Clark and Dr. Eugene S. Richardson, Jr. (field trip, 1963): 19 fossil invertebrate specimens, *Rhabdoderma*—Illinois

Collected by Dr. Clark, Dr. Richardson, Carole Stentz and Kenneth Kietzke (field trip, 1963): 215 specimens—Illinois

Collected by Dr. Robert H. Denison (Wyoming Paleontological Field Trip, 1963): numerous fossil fish specimens—Wyoming

Collected by Dr. S. K. Roy (deceased) on various field trips over the years: 104 lava specimens—various localities

Collected by Dr. Bertram G. Woodland (Black Hills Geological Field Trip, 1963): numerous mineral and rock specimens—South Dakota

Purchases: 100 rock specimens and 100 thin sections

CHICAGO, UNIVERSITY OF, Chicago: Bastin Collection of Ore specimens—various localities (gift); collection of fossil reptiles, 1 fish tooth—Oklahoma (gift)

CHOATE, JOE, Harvey, Illinois: Cone-in-cone associated with concretion—Oklahoma (gift)

CLARK, DR. JOHN, Chicago: Mosasaur vertebrae and *Graptemys* carapace—South Dakota (gift); cephalopods, fishes, trilobites and crabs—various localities (gift)

DR. CLARK AND KENNETH KIETZKE, Chicago: 8 rock specimens—locality unknown (exchange)

COLE, MR. AND MRS. HENRY, Chicago: Pennsylvanian nudibranch (sea slug)—Illinois (gift)

DALHOUSIE UNIVERSITY, Halifax, Nova Scotia: 4 specimens of zeolite minerals—locality unknown (exchange)

DAVENPORT, KENNETH, Chicago: 117 specimens of Pennsylvanian fossil holothurian, *Achistrum*—Illinois (exchange)

DAVIS, D. DWIGHT, Richton Park, Illinois: 26 specimens of fossil invertebrates—locality unknown (gift)

DEMARAY, L., Chicago: cone-in-cone structure—Illinois (gift)

ERLING, D., Milwaukee, Wisconsin: 11 mineral specimens—various localities (gift)

FECHTNER, FRED, Rockford, Illinois: Pleistocene elk antler—locality unknown (gift)

FRASER, MR. AND MRS. J. C., Chicago: 2 Ordovician molluscs—locality unknown (gift)

GASS, HAROLD L., Tucson, Arizona: cast of *Oestophorus* plate—Arizona (gift)

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GEOLOGICAL SURVEY OF CANADA, Ottawa, Ontario, Canada: stone meteorite—Canada (exchange)

HIBBARD, DR. CLAUDE W., Ann Arbor, Michigan: 14 specimens of Pliocene and Pleistocene fossil fish—Idaho and Kansas (exchange)

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INTERNATIONAL MINERALS AND CHEMICALS Co., Skokie, Illinois: 13 mineral specimens—various localities (gift)

JOHNS, BRYCE, Park Forest, Illinois: 1 specimen of *Stigmaria*—Illinois (gift)

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JONES, R. D., JR.: 1 piece of tuff—Alaska (gift)

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DEPARTMENT OF ZOOLOGY

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BARKER, R. WRIGHT, Houston, Texas: 10 non-marine mollusks—Colombia and Costa Rica (gift)

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BRENNAN, DR. JAMES, Hamilton, Montana: 10 insects—Mexico and Panama (gift)

BRIGHTMAN YOUNG UNIVERSITY, Provo, Utah: 473 insects—Nevada (permanent loan)

BURCH, JOHN Q., Los Angeles: 2 marine snails—Mexico (gift)

BURCH, R. D., Houston, Texas: 37 marine snails—world-wide (gift)

CARLSBERGFONDETS DANA-EKSPEDITIONER, Charlottenlund Slot, Denmark: 9 fishes—Indian Ocean, North Atlantic Ocean and Strait of Gibraltar (gift)

CARNEGIE MUSEUM, Pittsburgh: 14 non-marine mollusks—Costa Rica (exchange)

CHAMBERLIN, DR. R. V., Salt Lake City, Utah: 2 fresh-water snails—Utah (gift)

CHICAGO NATURAL HISTORY MUSEUM: Collected by Dr. D. Dwight Davis (Malayan Zoological Expedition, 1958-59): 7 insects—Malaya

Collected by Philip Hershkovitz and Harry A. Beatty (Guiana Zoological Expedition, 1960-62): 5,356 insects—Surinam

Collected by Dr. Robert F. Inger, Dr. Bernard Greenberg and F. Wayne King (Borneo Zoological Expedition, 1962-63): 7,591 amphibians and reptiles and 203 fishes—Borneo

Collected by Hymen Marx and Harold Voris (local field trip): 14 salamanders and 1 frog—Indiana

Collected by Mr. and Mrs. William S. Street and Douglas M. Lay (The William S. and Janice K. Street Iranian Expedition of Chicago Natural History Museum, 1962-63): 1,649 mammals, 96 birds, 442 amphibians and reptiles and 9 fishes—Iran

Purchases: 217 mammals, 6,430 birds and 6 bird eggs, 2,861 amphibians and reptiles, 26,385 insects, and 6,745 lower invertebrates

CHICAGO ZOOLOGICAL SOCIETY, Brookfield, Illinois: 7 mammals, 8 birds, and 10 amphibians and reptiles—world-wide (gift)

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GLAESSNER, DR. M. F., Adelaide, South Australia: turtle—New Guinea (exchange)

GREENBERG, DR. BERNARD, Chicago: 10 amphibians and reptiles—Malaya (gift)

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GRUHN, GEORGE, River Forest, Illinois: snake—Kentucky (gift)

HAILE, DR. NEVILLE S., Jesselton, North Borneo: 383 land and fresh-water shells—British North Borneo (gift)

HARRY, DR. HAROLD W., Houston, Texas: 135 fresh-water snails—Puerto Rico (gift)

HEUSS, KLAUS, Hessen, West Germany: 5 fresh-water mussels—West Germany (exchange)

HILL, MURRAY, Burlington, Wisconsin: 11 marmosets—Brazil and captive (gift)

HINCKLEY, DR. ALDEN D., 3 lizards—Fiji Islands and Tonga Islands (gift)

HOOGSTRAAL, DR. HARRY, Cairo, Egypt: 87 mammals, 17 birds, 160 amphibians and reptiles, 388 insects—Egypt, Greece, India, Lebanon, Nepal, Sudan and Syria (gift)

HOPSON, OLE, Waukesha, Wisconsin: 94 fresh-water clams and marine shells—Florida and Wisconsin (gift)

HOWARD, MRS. FAYE B., Santa Barbara, California: 181 marine mollusks—Mexico (gift); 6 marine snails—Baja California (gift)

HOY, GUNNAR, Salta, Argentina: 17 birds—Argentina (gift)

HUBRIGHT, LESLIE, Meridian, Mississippi: 1,346 fresh-water mollusks—Southern United States (gift); 691 fresh-water shells—Southeastern United States (gift); 41 land snails—Alabama and Tennessee (exchange)

IMAMURA, PROFESSOR TAIJI, Mito, Japan: 5 insects—Japan (gift)

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KOHL, DR. GLEN M., Hamilton, Montana: 4 insects—Utah (gift)

KUNS, DR. MERLE L., Balboa Heights, Canal Zone: 2,684 mammals, 89 amphibians and reptiles; worm—Bolivia (exchange)

KURFESS, COMMANDER JOHN F., San Francisco: 19 amphibians and reptiles—California (gift)

LAY, DOUGLAS M., Chicago: 4 mammals—Germany, Italy and Mexico (gift)

LEGNER, DR. E. FRED, Riverside, California: 9 insects—Puerto Rico and Trinidad (exchange)

LINCOLN PARK ZOOLOGICAL SOCIETY, Chicago: 2 mammals and 1 bird—various localities (gift)

MADGE, E. H., London: 7 non-marine mollusks—Mauritius (gift)

MALKIN, BORYS, Sao Paulo, Brazil: 15 bats—Peru (gift); 2,911 insects—England, Holland, Poland and Sweden (gift)

MARCOTT, MRS. EDNA, St. Petersburg, Florida: 80 littoral snails—Florida (gift)

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MOSER, JOHN C., Alexandria, Louisiana: 11 insects—Louisiana (exchange)

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MUSEUM G. FREY, Munich, Germany: 688 insects—various localities (exchange)

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Massachusetts: 27 amphibians and reptiles—Solomon Islands (exchange); 4 fishes—South America (gift); 12 non-marine mollusks—Panama (exchange)

NATURHISTORISCHES MUSEUM, Vienna, Austria: 2 snakes—Sumatra (exchange)

NATURHISTORISCHES MUSEUM, Basel, Switzerland: 27 land snails—New Hebrides (exchange)

NELSON, DR. EDWARD M., San Juan, Puerto Rico: 7 amphibians and reptiles and 145 invertebrates—Puerto Rico (gift)

NELSON, GAYLE H., Loma Linda, California: 23 insects—United States (exchange)

PAIN, TOM, London: 4 land snails—British Guiana (exchange)

PAINTEUR, DR. REGINALD H., Manhattan, Kansas: 10 insects—Mexico (gift)

PARK, DR. ORLANDO, Evanston, Illinois: 370 slides of mites—United States (gift)

PAYNE, JERRY, Oak Ridge, Tennessee: 69 insects—South Carolina (exchange)

POYNTON, JOHN C., Pietermaritzburg, Natal, Union of South Africa: 2 frogs—Mozambique (gift)

PRICE, LAURIE, Kaitaia, Northland, New Zealand: 107 land snails, 3 non-marine mollusks—New Zealand (gift)

QUIMBY, JOHN, Chicago: 121 land and fresh-water shells—Michigan and Canada (gift)

RABB, DR. GEORGE B., Brookfield, Illinois: 3 frogs—South Africa and Venezuela (gift)

ROSCOE, ERNEST J., Chicago: 23 land mollusks—Idaho, Utah and Wyoming (gift)

ROSE, FRANCIS L., New Orleans, Louisiana: 2 salamanders—Alabama (gift)

ROTH, MRS. DIANE DEVRY, New York: 325 non-marine mollusks—Mexico (gift)

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SARAWAK MUSEUM, Kuching, Sarawak, Malaysia: lizard—Borneo (gift)

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SMITH, EDWARD G., Marseilles, Illinois: dolphin—Florida (gift)

SMITH, DR. LESLIE, Davis, California: 7 slides of insects—United States (gift)

SOUTH COOK COUNTY MOSQUITO ABATEMENT PROGRAM, Hazel Crest, Illinois: 18 fishes—Illinois (gift)

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STEEVES, HARRISON R., JR., Birmingham, Alabama: 2,480 insects—United States (gift)

STIFEL, PETER B., Salt Lake City, Utah: 21 land snails—Utah (gift)

SUMMERS, RAY, Petaluma, California: marine snail—Australia (gift)

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UNITED STATES FISH AND WILDLIFE SERVICE, Pascagoula, Mississippi: 289 fishes—various localities (gift)

UNITED STATES NATIONAL MUSEUM, Washington, D. C.: 378 mollusks—world-wide (exchange); 4 non-marine mollusks—Colombia and Mexico (exchange)

UNIVERSIDAD DE VENEZUELA, Caracas, Venezuela: 35 non-marine mollusks—Venezuela (exchange)

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WEYRAUCH, DR. WOLFGANG, Tucumán, Argentina: 5 land snails—Argentina (gift)

ZOOLOGISCHE SAMMLUNG DES BAYERISCHEN STAATES, Munich, Germany: 1 mammal—South America (exchange)

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 Callender, Mrs.
 Joseph E.
 Calvin, Mrs. H. L.
 Camenisch, Miss
 Sophia C.
 Cameron, Anson W.
 Cameron, Mrs.
 John Wheaton
 Cameron, William T.
 Camp, J. Beidler
 Campbell, Donald F., Jr.
 Campbell, Donald W.
 Campbell, George V.
 Campbell, Hugh
 Campbell, John Noble
 Campbell, Powell M.
 Canby, Caleb H., Jr.
 Canman, Richard W.
 Canmann, Mrs. Harry L.
 Capes, Miss Alice G.
 Caples, William G.
 Capps, Dr. Joseph A.
 Carey, Mrs. Charles
 Carlen, Raymond N.
 Carlin, Leo J.
 Carlisle, Mrs. William T.
 Carlson, Walter C. D.
 Carmell, Sherman
 Caron, O. J.
 Carp, Joseph T.
 Carpenter, Herbert R.
 Carqueville, Mrs. A. R.
 Carr, Rr. Adm. B. L.
- Carr, Robert A.
 Carr, Mrs. Robert F.
 Carroll, J. B.
 Carroll, John A.
 Carstens, Milton Searle
 Carter, Mrs. Armistead B.
 Carter, Miss Frances
 Jeannette
 Carton, Laurence A.
 Carton, Dr. Robert W.
 Caspers, Paul
 Cass, Sidney H.
 Cassady, Thomas G.
 Castruccio, Giuseppe
 Cathcart, Silas S.
 Cavanaugh, Robert A.
 Caywood, Thomas E.
 Cederlund, R. Stanley
 Cerling, Fredolph A.
 Cermak, George R.
 Cernoch, Frank
 Cerny, Mrs. Jerome
 Cervenka, Carl
 Chace, Thomas B.
 Chalfant, Arnold R.
 Chameroy, Arthur T.
 Chandler, Henry P.
 Chandler, Marvin
 Chapin, William Arthur
 Chaplicki, Mrs.
 Norbert L.
 Chapman, Arthur E.
 Chapman, Dave
 Chapman, Richard R.
 Chase, Norman M.
 Chatain, Robert N.
 Chazanow, George
 Cheney, Dr. Henry W.
 Chenicek, Dr. J. A.
 Chenier, Miss Mizpah
 Cheronos, George D.
 Cherry, Walter L., Jr.
 Chesler, Morton C.
 Chester, W. T.
 Chiara, Anthony R.
 Childs, Leonard C.
 Chilgren, Arthur D.
 Chinlund, Miss Ruth E.
 Chorn, William G.
 Christensen, Christian
 Christensen, John W.
 Christensen, Joseph M.
 Christensen, Robert W.
 Christian, John F.
 Christiansen, Dr. Henry
 Christopher, Dr. G. L.
 Christy, Dr. Harold W.
 Chulock, Willmar A.
 Churan, Charles A.
 Church, Mrs. Freeman S.
 Ciral, Philip F.
- Clansky, Roy W., Jr.
 Clark, Mrs. Alice Dargan
 Clark, Mrs. Edward S.
 Clark, Edwin H.
 Clark, Dr. James Wilson
 Clark, K. Raymond
 Clarke, Charles F.
 Clarke, Ernest E.
 Clarke, Miss Lorena
 Clarke, Dr. T. Howard
 Clausing, Mrs. George W.
 Clay, John
 Clement, Franklin G.
 Clement, Howard W.
 Clement, James W.
 Clements, George L.
 Clifford, Fred J., Jr.
 Clifford, J. S.
 Clinch, Duncan L.
 Clonick, Abraham J.
 Clonick, Herbert J.
 Clonick, Seymour E.
 Close, James W.
 Cloud, Hugh S.
 Clough, Herbert W.
 Clovis, Paul C., Sr.
 Clow, Miss Marion
 Cluxton, Dr.
 Harley E., Jr.
 Coale, William F., Jr.
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 Coates, John M.
 Coath, V. W.
 Coburn, John T.
 Coburn, Maurice W.
 Cochran, John L.
 Cocks, Thomas G.
 Coey, David R.
 Coghlan, Mrs. David L.
 Cohen, Abraham H.
 Cohen, George B.
 Cohen, Harry
 Cohen, S. T.
 Cohn, Aaron H.
 Colby, Bernard G.
 Coldiron, Harry A.
 Cole, John W.
 Cole, Sidney I.
 Coleman, Clarence L., Jr.
 Coleman, Mrs. John
 Coleman, Loring W.
 Coleman, Marvin H.
 Colenso, James E.
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Conklin, Miss Shirley
Conley, Philip
Connell, P. G.
Connery, John
Connors, Mrs. Thomas A.
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Margaret B.
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Cook, Junius F., Jr.
Cook, L. Charles
Cook, Leslie H.
Cook, Dr. Richard S.
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Cooley, Gordon A., Sr.
Coolidge, Dr. Edgar D.
Coombs, James F.
Coonley, John Stuart
Coonley, Prentiss L.
Cooper, Lee
Cooper, Samuel
Cooper, S. Robert
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Corbett, Paul M.
Corbett, Dr. Robert J.
Corbett, Mrs. William J.
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Cordray, Mrs. David P.
Corrington, John W.
Corry, Mrs. Edgar C.
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Costanzo, Dr.
Vincent A., Jr.
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Costello, Dr. Lorne
Coston, James E.
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Cotton, Eugene
Coulon, Dr. Albert E.
Coulson, John S.
Coultrap, James W.
Coursen, Charles B.
Covington, John R.
Covington, William S.
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Cowen, Dr. Jack P.
Cowen, Maurice L.
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- Cox, Clifford B.
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Craig, Mrs. Virginia
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Crawford, Robert A.
Crawford, W. F.
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Cromwell, Miss
Juliette Clara
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Frances S.
Cummings, Nathan
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Guthrie, Jr.
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Curwen, H. L.
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Cushing, John Caleb
Cushman, Barney
Cutler, Paul William
Cutter, Charles F.
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Daily, Col. Richard
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D'Aquila, George
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Brendecke
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Decker, Charles O.
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de Dardel, Carl O.
Deeming, W. S.
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DeLay, Frank P.
Delp, Larry
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Deming, Everett G.
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Denney, Ellis H.
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Desgrey, Charles W.
Detmer, John F.
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Dick, Elmer J.
Dick, Robert

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 Dixon, Wesley M., Jr.
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 Dodge, Mrs. Paul C.
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 Douglass, Mrs. Helen James
 Douglass, Kingman
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 Duclos, George A.
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 Dumelle, Frank C.
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 Duncan, Albert G.
 Duncan, Kent W.
 Duner, Joseph A.
 Dunlap, William E.
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 Dunlop, Mrs. Simpson
 Dunphy, Charles S.
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 Dvonch, Dr. William J.
 Dyer, Robert T.
 Easterberg, C. J.
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 Eaton, J. Frank
 Ebberts, Todd A.
 Ebeling, Frederic O.
 Ebert, Carl H.
 Ebin, Mrs. Dorothy Mylrea
 Ebzery, Miss Joan
 Eckert, Theodore T.
 Eddy, Alfred K.
 Edelson, Dave
 Edelson, Mitchell, Jr.
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 Edwards, Miss Edith E.
 Edwards, G. H.
 Edwards, William C.
 Eger, Gerard J.
 Eglit, Nathan N.
 Ehrlich, Stanton L.
 Ehrmann, Walter H.
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 Eichler, Robert M.
 Eiseman, Fred R.
 Eisenberg, Sam J.
 Eisendrath, Edwin W.
 Eisenhower, Earl D.
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 Eisenstein, Sol
 Eklund, Ernest A.
 Eldred, Mrs. Harriot W.
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 Ellbogen, Miss Celia
 Ellies, E. E.
 Ellinger, Dr. R. H.
 Elliott, Mrs. Edwin P.
 Elliott, Miss Grace E.
 Ellis, Mrs. G. Corson
 Ellis, Howard
 Elmer, Mrs. Clarence W.
 Elson, Alex
 Elston, Mrs. I. C.
 Elting, Victor, Jr.
 Elting, Winston
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 Emanuelson, Conrad R.
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 Emery, Edward W.
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 Engelmann, George W.
 English, Harold
 English, William L.
 Engstrom, Harold
 Entsminger, Samuel E.
 Epstein, Harvey
 Epstein, Herman L.
 Erickson, Donald
 Erickson, L. Hyland
 Ericson, Mrs. Chester F.
 Ericsson, Clarence
 Ericsson, Dewey A.
 Ericsson, Walter H.
 Erickson, Carl A.
 Erman, Walter
 Ernest, Joseph R.
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 Escudier, A. F.
 Esgar, R. Rea
 Ettelson, Jerome Lawrence
 Etten, Henry C.
 Evans, Miss Anna B.
 Evans, Mrs. Bergen
 Evans, Eliot H.
 Evans, Keith J.
 Evans, Vernon K.
 Everett, William S.
 Evers, John W.
 Faber, Milton D.
 Fabrice, Edward H.
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 Factor, Mrs. Jerome
 Fader, A. L.
 Fagen, Mrs. Abel E.
 Faherty, Roger
 Fairweather, Dr. D. H.
 Fairweather, S. J.
 Faithorn, Walter E.
 Faletti, Richard J.
 Falk, Dr. Alfred B.
 Falk, Ralph, II
 Falls, Dr. A. G.
 Farley, Preston
 Farnham, Mrs. Harry J.
 Farrell, Mrs. B. J.
 Farrell, Mrs. Ernest H.
 Farwell, Albert D.
 Farwell, Francis C.
 Farwell, John V., III
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 Faust, Harry C.

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- Faverty, Clyde B.
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 Feinstein, Edward
 Howard
 Feiwell, Morris E.
 Fell, Dr. Egbert H.
 Fellowes, H. Folger
 Fellows, William K.
 Felsenthal, Edward
 George
 Fennekohl, Mrs.
 Arthur C.
 Fentress, David W.
 Ferguson, R. W.
 Fernald, Robert W.
 Ferry, Mrs. James H., Jr.
 Fetzer, Wade, Jr.
 Feuchtwanger, Sidney
 Fiduccia, Charles B.
 Field, John S.
 Field, Meyer
 Field, Mrs. William A.
 Fiffer, Robert S.
 Filerman, Arthur
 Filkins, A. J.
 Fillinsky, Edmund A.
 Filter, Patrick S.
 Fineman, Oscar
 Fink, Mrs. Frank
 Fink, Joseph H.
 Finlayson James K.
 Finley, Max H.
 Finnerud, Dr. Clark W.
 Firsell, Maurice S.
 Firth, M. S.
 Fischer, David J.
 Fishbein, Dr. Morris
 Fisher, Mrs. Raymond
 Fishman, Mrs. Jacob M.
 Fishman, Louis
 Fishman, Samuel
 Fisk, Albert
 Fisk, Mrs. Burnham M.
 Fiske, Kenneth M.
 Fitch, Marvin
 Fitzgerald, George J.
 Fitzmorris,
 Mrs. Charles C., Sr.
 Fitzmorris, James
 Fitzsimons, Laurence J.
 Fitz Simons, Dr. J. A.
 Flacks, Reuben S.
 Flagg, Miss Grace S.
 Flanagan, James F.
 Fleischman, Miss Anne
 Fleming, E. I.
 Fleming, Mrs. Joseph B.
 Fletcher, Joseph
 Fletcher, Mrs. Mildred C.
 Flinn, Walter H., Jr.
- Flint, George M.
 Florian, Anton G.
 Florsheim, Harold M.
 Florsheim, Irving S.
 Flowers, Dr. Vladimir C.
 Foell, W. J.
 Folds, Charles W.
 Follansbee, Rogers
 Follett, Dwight
 Folonie, Mrs. Robert J.
 Foote, Mrs. Harley T.
 Forch, Mrs. John L., Jr.
 Ford, Miss Thelma
 Ford, Mrs. Willis Roland
 Foreman, Alfred K., Jr.
 Foreman, Edwin G., Jr.
 Foreman, Harold E.
 Forgan, Mrs. J. Russell
 Forgan, Robert D.
 Forman, Charles
 Forster, J. George
 Fort, George A.
 Fortune, Miss Joanna
 Foster, Mrs. Charles K.
 Foster, Robert S.
 Fowle, Frank F.
 Fowler, Gerald J.
 Fowler, Mrs. Earle B.
 Fox, Clarence E.
 Fox, George J.
 Fox, Jacob Logan
 Fox, Dr. Paul C.
 Frale, Anthony M.
 Franche, Mrs. D. C., III
 Frank, Robert B.
 Franke, Allyn J.
 Frankel, Jones B.
 Frankel, Louis
 Frankel, Marshall
 Frankenstein, Lester E.
 Frankenstein, William B.
 Franklin, G. K.
 Franz, Herbert G.
 Fraser, Edward S.
 Frasier, Richard C.
 Frazer, Mrs. George E.
 Freda, Dr. Vincent C.
 Frederick, Mrs.
 Clarence L.
 Freedman, Edward H.
 Freehling, Stanley M.
 Freeman, Ernest E.
 Freeman, Gaylord A.
 Freeto, Clarence E.
 Freiler, Abraham J.
 Frenier, A. B.
 Freudenthal, G. S.
 Freund, Mrs. I. H.
 Freund, Mrs. J. Dennis
 Frey, Charles Daniel
 Freyn, Henry J.
- Fridstein, Meyer
 Friedberg, Dr. Stanton A.
 Friedlander, William
 Friedlich, John
 Friedlob, Fred M.
 Friedman, Mrs.
 Norman B.
 Friedman, Raphael N.
 Fritsch, Miss Josephine
 Frost, Allan
 Fruh, Arthur W.
 Frye, W. P.
 Frystak, A. J.
 Fucik, E. Montford
 Fucik, Frank M.
 Fuller, Mrs. Gretta
 Patterson
 Fuller, J. E.
 Fuller, Perry L.
 Fullerton, Thomas
 Fulton, Paul C.
 Furlong, Clair W.
 Fyanes, F. D.
- Gabriel, Adam
 Gainer, Walter D.
 Gale, Willis
 Galgano, John H.
 Gall, Frank
 Gall, Harold J. F.
 Gall, Harry T.
 Gallo, Alfred E.
 Gallup, Rockwell L.
 Galt, Mrs. Anne
 Rickcords
 Galt, Mrs. A. T.
 Gamble, D. E.
 Gamble, E. Ross
 Gamm, Dr. Stanford R.
 Gammie, George
 Garcia, José
 Gardner, Addison L., Jr.
 Gardner, F. Sewall
 Gardner, Frederick D.
 Gardner, Henry A.
 Gardner, Henry K.
 Gardner, Robert A., Jr.
 Garen, Joseph F.
 Garrison, Dr. Lester E.
 Garvey, W. H., Jr.
 Gary, Theodore S.
 Gasper, T. F., Jr.
 Gates, Mrs. L. F.
 Gaul, Michael F.
 Gawthrop, H. H.
 Gay, Rev. A. Royall
 Gaylord, Mrs. Ruth K.
 Gebhardt, Alfred E.
 Gebhardt, Mrs. Ernest A.
 Gee, James W.
 Gehl, Dr. W. H.

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- Geiling, Dr. E. M. K.
 Geilman, Harold
 Geist, Herbert
 Geittmann, Dr. W. F.
 Geldmeier, Dr. Erwin F.
 Gellert, Donald N.
 Gelman, Dr. Renee L.
 Gensburg, Samuel H.
 Gentry, Veit
 George, Clark B.
 Gerden, Paul
 Gerding, R. W.
 Gerk, G. F.
 German, Fred W.
 Gerngross, Mrs. Leo
 Gerrard, J. M.
 Gerstley, Mrs. Jesse R.
 Geter, Howard D., Sr.
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 Gettleman, Arthur
 Gettleman, Frank E.
 Getz, James R.
 Getz, Mrs. James R.
 Getzoff, Byron M.
 Giacobe, Mrs. Anthony J.
 Gibbs, A. E.
 Gibbs, Richard F.
 Gibson, James T., Jr.
 Gibson, Paul
 Gibson, Truman K., Jr.
 Gidwitz, Alan K.
 Gidwitz, Victor E.
 Gidwitz, Willard
 Giffey, Miss Hertha
 Gifford, Frederic Z.
 Gifford, Mrs. Frederick C.
 Gilchrist, Mrs. John F.
 Gilchrist, Mrs. William Albert
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 Giles, Mrs. Guy H.
 Giles, John O.
 Gill, Joseph L.
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 Gillett, W. N.
 Gilmore, Dr. John H.
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 Glaescher, Mrs. G. W.
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 Glassner, James J.
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 Glick, Louis G.
 Glore, Robert Hixon
 Glos, Mrs. Albert H.
 Gluck, Gerson, I.
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 Gold, Norman
 Goldberg, Arthur J.
 Goldberg, Charles K.
 Goldblatt, Joel
 Golding, Robert N.
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 Goldstein, Dr. Helen L. Button
 Goldstein, Nathan S.
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 Gombert, Dr. Harry
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 Goodman, Benedict K.
 Goodman, Howard
 Goodman, Mrs. Milton F.
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 Goodman, William E.
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 Goodwin, George S.
 Gopp, Leonard W.
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 Gordon, Edward
 Gordon, Harold J.
 Gordon, Leslie S.
 Gordon, Marvin M.
 Gordon, Dr. Richard J.
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 Gorrell, Mrs. Warren
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 Gottlieb, Jacob
 Gould, Jay
 Gould, Mrs. June K.
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 Graham, Mrs. Arthur R.
 Graham, Bruce J.
 Graham, David
 Graham, Douglas
 Graham, E. V.
 Graham, Miss Margaret H.
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 Grant, James D.
 Grant, John G.
 Grant, Robert M.
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 Graves, Howard B.
 Grawoig, Allen
 Grawols, G. L.
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 Gray, Edward
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 Gray, William Scott, III
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 Green, Michael
 Greenaway, Donald
 Greenburg, Dr. Ira E.
 Greene, Henry E.
 Greene, Howard T.
 Greene, Wesley H.
 Greenebaum, Robert J.
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 Greenwald, Herbert S.
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 Gregg, Lewis D.
 Gregory, James J.
 Gregory, Stephen S., Jr.
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 Gressens, Otto
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 Griffith, Dean L.
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 Griffith, Mrs. William C.
 Grimes, Don R.
 Grimes, Douglas A.
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 Griswold, Harold T.
 Griswold, J. Edwin
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 Groak, Irwin D.
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 Guetzkow, Harold S.
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 Gurley, Miss Helen K.
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 Gustafson, Carl I.

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 Guthrie, S. Ashley
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 Gwinn, R. P.
 Gwyer, Dr. F. V.

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 Hales, Burton W., Jr.
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 Hamilton, Samuel
 Hamling, Ben M.
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 Hands, H. William
 Handy, Ellsworth A.
 Hanelin, Dr. Henry A.
 Hank, Bernard J.
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 Mildred L.
 Hansen,
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 Hansen, Jacob W.
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 Rassweiler
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 Addie Clark
 Harding, John P., II

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 Harris, Gerald H.
 Harris, Gordon L.
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 Mrs. Mortimer B.
 Harris, Robert Bruce
 Harris, Stanley G.
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 Hartz, Dr. Wilson H.
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 Harwood, Thomas W.
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 Hauge, Clarence
 Haugen, Bernhart
 Hausler, Mrs. M. G., Jr.
 Havelaar, W. C.
 Hawkes, Albert K.
 Hawkes, Joseph B.
 Hawkins, Kenneth B.
 Hawkinson, Marshall J.
 Hay, Mrs. William
 Sherman
 Hayakawa, Dr. S. I.
 Hayes, Harold C.
 Hayes, Miss Hatti
 Hayes, Dr. Thomas H.
 Hayes, Mrs. William F.
 Hayward, Thomas Z.
 Haywood, Mrs.
 Marshall L., Jr.
 Hazel, B. F.
 Hazlett, Dr. William H.
 Hazlett, Mrs. William H.
 Head, James D.
 Healy, Thomas H.

Healy, Vincent Jerrems
 Hearn, Francis J.
 Hearst, Mrs. Jack W.
 Heaton, Harry E.
 Heaton, Herman C.
 Hecht, Fred C.
 Hecht, Kenneth G.
 Hecht, Myron A.
 Hedin, Walter L.
 Heffernan, Miss Lili
 Heffron, Kenneth C.
 Hefner, Adam
 Heggie, Miss Helen
 Heide, Mrs. Bernard H.
 Heineman, Ben W.
 Heinzelman, Karl
 Heinzen, Mrs. Carl
 Heisler, Francis
 Heldmaier, Miss Marie
 Helfrich, J. Howard
 Heller, Mrs. Florence G.
 Heller, John A.
 Hellerich, Leonard P.
 Hellman, George A.
 Hellyer, Walter
 Helmich, Miss Lenore
 Hemenway, Henry H.
 Hemphill, James C.
 Henderson, Kenneth M.
 Henebry, John P.
 Henke, Frank X., Jr.
 Henkel, Frederick W.
 Henley, Dr. Eugene H.
 Hennessy, John H.
 Henry, C. Wolcott, Jr.
 Henschel, Edmund C.
 Hensel, Paul G., Jr.
 Hepburn, R. J.
 Herbert W. T.
 Herbst, LeRoy B.
 Herdina, Jerry
 Herman, Richard P.
 Hermann, Grover M.
 Herron, James C.
 Herron, Mrs. Oliver L.
 Hertzberg, Lawrence
 Herz, Mrs. Alfred
 Herz, J. H.
 Hesse, E. E.
 Heuser, Arthur W.
 Heverly, Earl L.
 Hewes, W. F.
 Hewitt, Edwin Shields
 Heymann, Robert L.
 Hibben, Joseph W.
 Hicks, Thomas D.
 Hieber, J. Patrick
 Higgins, Miss Margaret
 Higgins, Russell G.
 Hikawa, Richard K.

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- Hildebrand, Dr.
Eugene, Jr.
Hildebrand, Grant M.
Hilgendorf, George M.
Hilker, Mrs. Marion
Hilkevitch, Dr. A. A.
Hill, Carlton
Hill, Dormand S.
Hill, Rolwood R.
Hill, Mrs. Russell D.
Hill, Stacy H.
Hille, Dr. Hermann
Hillier, William H.
Hind, Mrs. John Dwight
Hines, Charles M.
Hinkson, Dr. G. Duncan
Hinman, Mrs. Estelle S.
Hinrichs, Henry, Jr.
Hirsch, Albert
Hirsch, Edwin W.
Hirsch, LeRoy E.
Hirsch, Milton W.
Hirschberg, Samuel J.
Hirtenstein, Robert E.
Histed, J. Roland
Hixon, Mrs. Robert
Hobbs, Russell D.
Hodges, F. Robert
Hodgman, Mrs.
Charles R., Jr.
Hodgkinson, Mrs. W. R.
Hodous, Michael F.
Hoefman, Harold L.
Hoffman, Clarence
Hoffman, Miss
Elizabeth
Hoffman, Edward
Hempstead
Hoffmann, Dr. Eugene
Hoffman, Raymond A.
Hofstetter, Charles A.
Hogan, Robert E.
Hokenson, Howard G.
Hokin, Barney B.
Hokin, Edwin E.
Holabird, W. S., Jr.
Holden, Edward A.
Holderby, Glen W.
Holinger, Dr. Paul H.
Holland, M. J.
Hollander, Jack
Hollander, Mrs. Samuel
Holleb, Marshall M.
Hollenbach, Louis
Holliday, W. J.
Hollins, Gerald
Holloway, Allen D.
Holloway, Charles C.
Holloway, J. L.
Holmberg, Mrs.
Adrian O.
- Holmblad, Dr.
Edward C.
Holmburger, Max
Holmes, J. A.
Holmes, William
Holson, Evar W.
Holub, Anthony S.
Holzheimer, Carl
Homan, Mrs.
Hubert A., Jr.
Hooper, Miss Frances
Hoover, Mrs. Fred W.
Hope, Alfred S.
Hopkins, Albert L.
Hopkins, Mrs. James M.
Hopkins, Mrs.
James M., Jr.
Hopkins, Dr. M. B.
Horcher, William W.
Hornburg, Arthur C.
Horne, Mrs. William
Dodge, Jr.
Horner, Mrs.
Maurice L., Jr.
Horton, Mrs. Helen
Horween, Arnold
Horween, Isidore
Horwich, Leonard J.
Hosbein, Louis H.
Hoshell, Robert J.
Hoslett, Dr. Schuyler
Dean
Houck, Irvin E.
Houck, L. E.
Hough, Charles F.
Hough, Frank G.
Hovland, Mrs. John P.
Howard, Bailey K.
Howard, Mrs. Harvey H.
Howard, Howell H.
Howard, Philip L.
Howe, Miss Alice
Howe, Miss Amy L.
Howe, Charles Albee
Howe, Col. Ralph B.
Howe, Roger F.
Howell, Miss Laura O.
Howie, Mrs. James E.
Howse, Richard G.
Howson, Louis R.
Hoy, Pat
Hoynes, Miss Susan D.
Hraback, L. W.
Hrdlicka, Mrs. John D.
Hubachek, Frank
Brookes
Huber, Dr. Harry Lee
Huck, Ralph F.
Hudson, H. Kenneth
Hudson, Miss
Katherine J.
- Hudson, William J.
Huey, Mrs. A. S.
Hufty, Mrs. F. P.
Huggins, G. A.
Hughes, Dr. Charles E.
Hughes, John E.
Hughes, John W.
Hume, James P.
Hume, Patrick H.
Humphrey, H. K.
Humphrey, Robert C.
Huncke, Oswald W.
Hunker, Robert W.
Hunt, George L.
Hunt, Jarvis
Hunt, Miss Ruth
Hunt, Theodore W.
Hunt, Mrs. William O.
Hunter, Mrs. C. K.
Hunter, Lemuel B.
Huska, Mrs. Joseph
Hust, George
Huszagh, Ralph D.
Hutchens, Edward J.
Hutchins, John S.
Hutchinson, Foye P.
Hutchinson, Samuel S.
Huth, Frank D.
Hvale, Mrs. James L.
Hyman, Harold
Hynes, D. P.
Hypes, William P.
- Ickes, Raymond W.
Ickes, Mrs. Wilmarth
Idelman, Bernard
Igoe, Michael L.
Igoe, Michael L., Jr.
Iker, Charles
Ilg, Paul F.
Ilg, Robert A.
Illich, George M., Jr.
Ingalls, Allin K.
Ingersoll, Robert S.
Ingersoll, Roy C.
Ingersoll, Mrs. S. L.
Ingram, Frank H.
Inlander, N. Newton
Inlander, Samuel
Irons, Dr. Ernest E.
Irons, Mrs. Spencer E.
Irvine, George L.
Isaacs, Roger D.
Isham, George S.
Isham, Henry P.
Isham, Henry P., Jr.
Isom, W. R.
Ives, Clifford E.
Ives, George R.
- Jackson, Archer L.

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- Jackson, Byrne A.
 Jackson, Carl W.
 Jackson, Charles Selwyn
 Jackson, G. McStay
 Jacobi, Miss Emily C.
 Jacobs, Aaron M.
 Jacobs, Julius
 Jacobs, Nathan E.
 Jacobs, Mrs. Walter H.
 Jacobs, Walter L.
 Jacobs, Wyatt
 Jacobson, A. J.
 Jacobson, Arent J.
 Jacobson, Jacob
 Jacobson, Raphael
 Jahn, Reinhardt H.
 James, Ralph C.
 James, Thomas M.
 James, Walter C.
 Jameson, Clarence W.
 Jancosek, Thomas A.
 Janis, Mrs. Robert F.
 Jansey, Dr. Felix
 Janson, Dr. C. Helge M.
 Janusch, Fred W.
 Jarchow, Mrs. C. E.
 Jarchow, Charles C.
 Jarchow, Robert B.
 Jastromb, Samuel
 Jecha, Irwin
 Jeffers, Howard F.
 Jeffries, Dr. Daniel W.
 Jens, Arthur M., Jr.
 Jensen, W. J.
 Jerger, Wilbur Joseph
 Jessen, Floyd E.
 Jessen, Dr. George N.
 Jirgal, John
 Job, Dr. Thesle T.
 Johnson, Alvin O.
 Johnson, Calmer L.
 Johnson, Carl H.
 Johnson, Herbert M.
 Johnson, Hjalmar W.
 Johnson, John H.
 Johnson, Mrs. Norma O.
 Johnson, Norman E.
 Johnson, Paul C.
 Johnson, P. Sveinbjorn
 Johnson, Philip C.
 Johnson, R. Ellis
 Johnson, Ray T., Jr.
 Johnson, Wallace D.
 Johnston, Edward R.
 Johnston, Mrs. Hubert
 McBean
 Johnston, Hulburd
 Johnston, Mrs. M. L.
 Johnstone, David M.
 Jolly, Miss Eva Josephine
 Jonak, Frank J.
 Jones, Gordon M.
 Jones, James B.
 Jones, John E.
 Jones, Dr. Margaret M.
 Jones, Miss Susan E.
 Jonswold, C. R.
 Jordan, Horace W.
 Jordan, Robert J.
 Jorgensen, Paul
 Joseph, Mrs. Jacob G.
 Joseph, Louis L.
 Joy, Guy A.
 Juergens, H. Paul
 Julian, Dr. Ormand C.
 Julien, Victor R.
 Jung, C. C.
 Jurco, Stephen
 Jurica, Dr. Hillary S.
 Kahn, Mrs. Arthur S.
 Kahn, J. Kesner
 Kahn, Jerome J.
 Kaine, James B.
 Kaiser, Dr. George D.
 Kalnitz, Arnold B.
 Kamenjarin,
 Mrs. Anthony
 Kamin, William C.
 Kamins, Dr. Maelyn M.
 Kamm, Dr. Bernard A.
 Kane, Jerome M.
 Kanehl, James R.
 Kanelos, George A.
 Kanter, Jerome J.
 Kaplan, Morris I.
 Kaplan, Nathan J.
 Kaplan, Stanley A.
 Kargman, Wallace I.
 Karlos, Anthony C.
 Karst, Lambert P.
 Kasakoff, Lawrence
 Kasch, Frederick M.
 Kash, Bernard B.
 Kass, Joseph J.
 Katz, Mrs. Sidney L.
 Katz, Solomon
 Katz, William
 Katzenstein, Mrs.
 George P.
 Katzin, Frank
 Kaufman, Justin
 Kaufman, M. G.
 Kaufmann, Dr.
 Gustav L.
 Kay, Joseph C.
 Kay, Mrs. Marie E.
 Keach, Benjamin
 Keare, Mrs. Spencer R.
 Kearns, Mrs. Jerry J.
 Keebler, Miss
 Florence M.
 Keeley, Robert E.
 Keene, William J.
 Keeshin, J. L.
 Kehoe, Mrs. High Boles
 Kelemen, Rudolph
 Kelley, John F.
 Kelley, Mrs. M. Cotton
 Kellogg, Mrs. Helen L.
 Kelly, Arthur Lloyd
 Kelly, Barbara Wetten
 Kelly, Charles Scott
 Kelly, George Gilman
 Kelly, Mrs. Haven Core
 Kelly, T. Lloyd
 Kelsey J. D.
 Kemp, Russell M.
 Kemper, Hathaway G.
 Kemper, Miss Hilda M.
 Kemper, James S.
 Kempner, Stan
 Kendrick, John F.
 Kennedy, Mrs. E. J.
 Kennedy, Henry Warner
 Kennedy, James G.
 Kennedy James W.
 Kennedy, Lesley
 Kennedy, R. J.
 Kennedy, Ralph L.
 Kennedy, Taylor L.
 Kenny, Henry
 Kenoe, Henry W.
 Kent, Robert H.
 Kentor, William E.
 Kern, Mrs. August
 Kern, Dr. Nicholas H.
 Kern, Trude
 Kerwin, Edward M.
 Ketterman, Dr. Charles H.
 Kettering, Mrs.
 Eugene W.
 Ketzler, A. C.
 Kew, Mrs. Stephen M.
 Kidston, Alan R.
 Kidwell, L. B.
 Kiefer, Dr. Joseph H.
 Kieffer, Ralph C.
 Kiessling, Mrs. Charles S.
 Kile, Miss Jessie J.
 Kimball, Paul C.
 Kimball, William W.
 Kimbark, John R.
 Kimmel, J. M.
 King, Mrs. Charles G.
 King, Clinton B.
 King, George F.
 King, Harold R.
 King, Mrs. John
 Andrews
 Kingman, Mrs. Arthur G.
 Kinkead, W. S.
 Kinsey, Robert S.

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- Kirkland, Mrs.
Weymouth
- Kirson, Leonard
- Kirst, Lyman R.
- Kitchell, Howell W.
- Kittle, Mrs. C. M.
- Kitzelman, Otto
- Klapman, Philip A.
- Klatt, Albert Arthur
- Kledzinski, Miss Loretta
- Klee, Steven Michael
- Klefstad, Sivert
- Klein, Robert L.
- Klein, William P.
- Kleinpell, Dr. Henry H.
- Kleist, Mrs. Harry
- Kleppinger, William H.
- Kleutgen, Dr. Arthur C.
- Klinetop, Mrs. Charles W.
- Knapp, William G.
- Kneibler, Mrs. Arthur R.
- Knickerbocker, Miss
Paula
- Knight, Arthur B.
- Knight, Howard
- Knight, John S.
- Knott, Lawrence T.
- Knowlton, John M.
- Knutson, A. C.
- Knutson, George H.
- Koch, Mrs. Fred J.
- Koch, Raymond J.
- Koch, Robert J.
- Koczur, Dr. Joseph L.
- Koehnlein, Wilson O.
- Koenig, Oswald N.
- Koenig, Philip F.
- Koerber, Lorenz F., Jr.
- Kohn, Edward
- Kohn, Henry L.
- Kohn, Le Roy L.
- Kolar, George G.
- Kolbe, Frank F.
- Kolehmainen, Waino M.
- Kolesiak, Walter R.
- Kollar, Dr.
John Anton, Jr.
- Kopf, Miss Isabel
- Kopinski, Louis
- Koppenaar, Dr.
Elizabeth Thompson
- Kordsiemon, William M.
- Korf, Dr. Stanley R.
- Korhumel, Newton F.
- Kornblith, Mrs.
Howard G.
- Korsvik, W. J.
- Kosmach, Frank P.
- Kosobud, William F.
- Kostrzewski, Dr. M. J.
- Kotal, John A.
- Kotin, George N.
- Koucky, Dr. J. D.
- Kowalski, Dr. Leonard F.
- Kozlik, Frank B.
- Kraft, Mrs. David H.
- Kraft, John H.
- Kraft, Norman
- Kralovec, Emil G.
- Kralovec, Mrs. Otto J.
- Kramer, Dr. George M.
- Kramer, Leroy, Jr.
- Kraus, Samuel B.
- Kraus, William C.
- Krautter, L. Martin
- Krebs, Walter O.
- Kremer, Miss
Jeannette G.
- Kresl, Carl
- Kresnoff, Dr. Charles S.
- Kretschmer,
Herman L., Jr.
- Krez, Leonard O.
- Kribben, Arthur K.
- Kribben, Delafield
- Krider, E. A.
- Kriser, Mrs. Leonard S.
- Kritzer,
Richard W., Sr.
- Krivaneck, Dr. Joseph H.
- Kroch, Carl A.
- Kroehler, Kenneth
- Kropff, C. G.
- Krost, Dr. Gerard N.
- Krupnick, Samson
- Kruskal, William
- Kruty, Samuel
- Kuehn, A. L.
- Kuehn, Miss Katherine A.
- Kuh, Mrs. Edwin J., Jr.,
- Kuhajek, Eugene J.
- Kuhn, Frederick T.
- Kuhn, Dr. Hedwig S.
- Kuhn, Overton F.
- Kulikowski, Leon T.
- Kunka, Bernard J.
- Kunstadter, Albert
- Kunstadter, Sigmund W.
- Kurfess, John Fredric
- Kurpieski, Mrs. Eleanor
- Kurtz, William O., Jr.
- Kurtzon, Morris
- Kurzdorfer, E. T.
- Kutak, Jerome F.
- Kutchins, Edmund
- Kutza, Dr. Michael J.
- Kyritsis, Mathon
- Laadt, George A.
- Laadt, Dr. John R.
- Lacey, Miss Clara R.
- Laffin, Miss June
Atchison
- Laffin, Louis E., Jr.
- Laffin, Mrs. Louis E., Jr.
- Laffin, Louis E., III
- Laidlaw, John, Jr.
- Laidley, Roy R.
- Laing, Mrs. Milton L.
- Laing, William
- Lake, Charles W., Jr.
- Lambert, C. A.
- Lamberton, R. H.
- Lambertsen, John G.
- Lambrecht, Carl R., Jr.
- Lampert, Wilson W.
- Lanahan, Mrs. M. J.
- Lane, F. Howard
- Lang, Edward J.
- Lang, Eugene C.
- Lang, Gordon
- Langdon, Lawrence E.
- Langeluttig,
Col. Albert
- Langenbach, Mrs.
Alice R.
- Langford, Mrs. Robert E.
- Langhorne,
Mrs. George Tayloe
- Lanman, David T.
- Lanman, Mrs.
Edward Boylston
- Lansinger, Mrs. John M.
- Lapham, Fenton D.
- Large, Judson
- Larimer, Howard S.
- Larkin, Mrs. Walter D.
- Larrance, Ken
- Larsen, Samuel A.
- Larson, Leslie S.
- Larson, L. S.
- Larson, Mrs. Sarah G.
- La Salle, Miss Janet A.
- Lasch, Harry
- Lasher, Gen.
Edmund C. R.
- Lassers, Sanford B.
- Laterza, Michael F.
- Lathrop, Dr. Clarence A.
- Latshaw, Dr. Blair S.
- Laud, Mrs. Sam
- Lauth, Fred P.
- Lautmann, Herbert M.
- Lavers, A. W.
- Lavidge, Arthur W.
- Law, Mrs. Robert O.
- Lawless, Dr. Theodore K.
- Lawton, Robert M.
- Lax, John Franklin
- Layden, Michael J.
- Layfer, Seymour J.
- Lazar, Maurice

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- Leadbetter, Gordon
 Leahy, George J.
 Leahy, James F.
 Leander, Russell J.
 Leavell, James R.
 Leavitt, Mrs. Nathan
 Le Baron, Miss Edna
 Lebold, Samuel N.
 Lebolt, John Michael
 Lederer, Dr. Francis L.
 Lee, Bernard F.
 Lee, David Arthur
 Leekley, Philip A.
 Lefens, Miss Katherine J.
 Lefens, Walter C.
 Lehmann, Robert O.
 Leichenko, Peter M.
 Leight, Mrs. Albert E.
 Leighton, George N.
 Leith, John A.
 Leland, Miss Alice J.
 Leland, Mrs. Rosco G.
 Lello, Herbert F.
 Lennon, George W.
 Lentin, Julian
 Lentz, Dr. Roland G.
 Leonard, Arthur T.
 Lerch, William H.
 Leslie, John H.
 Lessman, Gerhard
 LeTourneau, Mrs.
 Robert
 Levatino, Jerome J.
 Levell, John P.
 Levering, J. E.
 Levi, Julian H.
 Levi, Stanley B.
 Levin, Mrs. Edward M.,
 Jr.
 Levin, Robert E.
 Levin, Sidney D.
 Levinson, Mrs. Salmon O.
 Levitan, Benjamin
 Levitan, Mrs. Dorothy R.
 Levitt, Dr. Le Roy P.
 Levy, Alexander M.
 Levy, Arthur G.
 Lewis, Mrs. J. J.
 Lewis, Louis J.
 Ley, Robert J.
 Liebenow, J. Gus
 Liebenow, Robert C.
 Liebensohn, Harold A.
 Leichty, G. Frederick
 Liesendahl,
 Mrs. Richard W.
 Lietz, J. T.
 Liffshin, Reuben J.
 Liguori, Sister Mary
 Lilien, Mrs. K. K.
 Lill, George, II
- Lillyblade, Clarence O.
 Lindar, Albert J.
 Lindberg, Le Roy A.
 Lindell, Arthur G.
 Linden, John A.
 Lindgren, Erik A.
 Lindsay, Mrs. Martin
 Lingle, Harrison C.
 Linn, Howard
 Linn, Mrs. W. Scott
 Lipinski, M. G.
 Lippman, Mrs. William
 Litten, Chapin
 Littig, Howard L.
 Little, Mrs. E. H.
 Littler, Harry E., Jr.
 Livingston, Mrs.
 Milton L.
 Lizzardo, Joseph F.
 Llewellyn, Mrs. Ross
 Lloyd, Georgia
 Lloyd, William Bross, Jr.
 Lodge, Robert H.
 Loeb, Mrs. Ernest G.
 Loeb, Hamilton M.
 Loeb, Jerrod
 Loewenberg, Israel S.
 Loewenberg, James L.
 Loewenberg, M. L.
 Loewenherz, Emanuel
 Loewenherz, Walter B.
 Loewenstein, Richard M.
 Loewenthal,
 Mrs. Richard J.
 Lowy, Dr. Arthur
 Logan, James E.
 Logan, Seymour N.
 Long, Marshall R.
 Long, R. E.
 Long, William E.
 Loomis, D. P.
 Loomis, Reamer G.
 Looney, Charles C.
 Lorange,
 Mrs. Luther M.
 Lorber, Herbert J.
 Lord, Arthur R.
 Lord, John S.
 Lord, Mrs. Russell
 Lorentz, Arthur G.
 Lotz, Philip W.
 Loucks, Charles O.
 Louer, Albert E. M.
 Louis, Mrs. John J.
 Loundy, Mrs. Mason A.
 Lourie, Donald B.
 Lovgren, Carl
 Lowe, William H.
 Lowell, Arthur J.
 Lowenstine, M. R.
 Lownes, Victor A., IV
- Lowrie, Mrs. John M.
 Lowrie, Raymond P.
 Lucey, Patrick J.
 Ludgin, Earle
 Ludolph, Wilbur M.
 Luft, John L.
 Lundberg, Robert
 Lundgren, Sten J.
 Lundy, Dr. Clayton J.
 Luria, Herbert A.
 Lurie, George S.
 Lusk, R. R.
 Lustgarten, Samuel
 Lydon, Robert R.
 Lyford, Harry B.
 Lynch, J. W.
 Lynch, William J., Jr.
 Lyon, Charles H.
- Mabee, Mrs. Melbourne
 MacArthur, Donald
 MacCarthy, Richard B.
 MacCowan, Hervey L.
 MacDonald, E. K.
 MacFarland, Lanning
 MacGregor, Donald
 Macias, William George
 MacIntyre, Mrs. M. K.
 MacKay, Dr. Roland P.
 MacKenzie, William J.
 Mackey, Frank J.
 Macki, Carl Gunnar
 MacKiewich, Justin
 MacKinnon, Mrs.
 Cyrus L.
 Mackinson, Dr. John C.
 Mackoff, Mrs. Saul
 MacLean, Mrs.
 John A., Jr.
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 MacLellan,
 Kenneth F., Jr.
 MacLeod, Albert H.
 MacMurray, Mrs.
 Donald
 Macomb,
 J. deNavarre, Jr.
 MacPhee, Paul A.
 Madden, John
 Madlener, Mrs.
 Albert F., Jr.
 Madlener, Otto
 Madrin, Mrs. Charles
 Maehler, Edgar E.
 Magerstadt, Madeline
 Magid, Cecil E.
 Magnus, Albert, Jr.
 Magnuson, Mrs. Paul
 Mah, George G.
 Maher, Dr.
 David Bremner

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- Maher, Mrs. D. W.
 Maher, James P.
 Main, Walter D.
 Maison, Mrs. L. G.
 Majka, F. L.
 Major, Ross O.
 Majors, Mrs. B. S.
 Makler, Joseph H.
 Maley, Alexander B.
 Maling, Albert
 Maller, Dr. Adolph M.
 Malmsten, Clarence C.
 Malugen, Jack C.
 Manasse, De Witt J.
 Mandel, Mrs. Aaron W.
 Mandel, Miss Florence
 Mandel, Mrs. Robert
 Manegold, Mrs.
 Frank W.
 Manierre, Louis
 Mann, John M.
 Mannette,
 Mrs. Russell L.
 Manz, Mrs. Carolyn D.
 Maragos, Samuel C.
 Marchant, Miss Lilian
 Maremont, Arnold H.
 Mark, E. E.
 Mark, Griffith
 Marker, Van E.
 Markham, Mrs.
 Herbert I.
 Markle, Mathew J.
 Marovitz, Sydney R.
 Marquart, Arthur A.
 Marquardt, Dr.
 Gilbert H.
 Marsh, A. Fletcher
 Marsh, E. S.
 Marsh, Mrs. Marshall S.
 Marsh, Peter John
 Marshall, Jay
 Martin, C. Virgil
 Martin, Eldon
 Martin, Mrs. George B.
 Martin, George F.
 Martin, Samuel H.
 Martin, Wells
 Martsolf, Philip, Jr.
 Marx, Adolf
 Marx, Victor E.
 Marzola, Leo A.
 Mason, Arnold D. K.
 Mason, Willard J.
 Masse, B. A.
 Massey, Richard W.
 Masters, Eugene W.
 Masters, Keith
 Masterson, Peter
 Mathesius, Mrs. Walther
 Mathis, Allen W.
 Matson, J. Edward
 Maxant, Basil
 Maxwell, A. K., Jr.
 Maxwell, John M.
 Maxwell, Robert E.
 Maxwell, W. Stirling
 Mayer, Frank D.
 Mayer, Herman J., Jr.
 Mayer, Isaac H.
 Mayer, Leo
 Mayer, Oscar G.
 Mayer, Robert B.
 Mayer, Sydney R.
 Mazurek, Miss Olive
 McAlvin, Mrs. James H.
 McArthur, A. Peter
 McArthur, Billings M.
 McCabe, Frank J., Jr.
 McCahey, James B.
 McCallum, W. W.
 McCarl, David N.
 McCarthy, Joseph W.
 McCausland, Mrs.
 Clara L.
 McClellan, John H.
 McCloska, Fred W.
 McCloud, Thomas W.
 McClun, John M.
 McCord, Mrs.
 Katheryn L.
 McCormick, Mrs.
 Chauncey
 McCormick, Howard H.
 McCormick, Leander J.
 McCormick,
 Robert H., Jr.
 McCormick, Roger
 McCoy, George R.
 McCray, Dr. R. M.
 McCrea, Mrs. W. S.
 McCreight, Louis Ralph
 McCurdy, Frank C.
 McCurry, Paul D.
 McCutcheon, Mrs.
 John T.
 McDavid, Raven I., Jr.
 McDermott, Franklin
 McDonald, E. F., Jr.
 McDougal, C. Bouton
 McDougal, David B.
 McDougal, Mrs.
 Edward D., Jr.
 McDougal, Mrs. James B.
 McDougal, Mrs. Mary
 McDougal, Mrs. Robert
 McErlean, Charles V.
 McGowen, Thomas N.
 McGregor, John M.
 McGuffin, James P.
 McGurn, Matthew S.
 McKay, Miss Mabel
 McKeldin, Mrs. S. Bennet
 McKellar, Donald
 McKenna, Charles H.
 McKibbin,
 Mrs. George B.
 McKinney, Mrs. Hayes
 McKittrick, C. E.
 McLaren, Mrs. Robert J.
 McLennan, Mrs.
 Donald R., Sr.
 McLennan, William L.
 McManus, J. L.
 McMenemy, Logan T.
 McMillan, John
 McMillan, W. B.
 McNair, F. Chaloner
 McNamara, Louis G.
 McNamara, Robert C.
 McNamee, Peter F.
 McNulty, Joseph D.
 McPherson, Cleo Edwin
 McQuarrie, Mrs. Fannie
 McReynolds, Mrs.
 Ruth M.
 Means, John L.
 Medsker, Dr. Ora L.
 Meek, Cecil P.
 Meers, Henry W.
 Mehan, Mrs. Georgette
 Mehn, Dr. W. Harrison
 Meidell, Harold
 Meier, Paul
 Meiszner, John C.
 Melcher, George Clinch
 Melody, Miss Margaret
 Melnick, Leopold B.
 Mendelsohn,
 Dr. Robert S.
 Merriam, Miss Eleanor
 Merricks, Mrs. James W.
 Merrill, Miss Marion E.
 Merritt, Thomas W.
 Mesenbrink, Paul H.
 Metcalfe, Mrs. Charles
 Mettenet, Francis X.
 Metz, Carl A.
 Metzger, Roswell W.
 Meyer, Mrs. A. H.
 Meyer, Charles A.
 Meyer, Dr. Charles A.
 Meyer, Charles Z.
 Meyerhoff, A. E.
 Meyers, Erwin A.
 Meyers, Jonas
 Michaels, Allen C.
 Michaels, Everett B.
 Michalko, Edward
 Michel, D. Daniel
 Michel, Dr. William J.
 Michels, Robert D.
 Michet, Dr. Clement J.

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- Middleton, J. A.
 Midowicz, C. E.
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 Milburn, Miss Anne L.
 Milburn, James F.
 Milgrom, H. T.
 Milhening, Frank
 Milhoan, F. B.
 Miller, Bernard
 Miller, Byron S.
 Miller, Dr. Cecelia E.
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 Miller, C. R.
 Miller, Creighton S.
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 Miller, Mrs. Ellen C.
 Miller, Mrs. George
 Miller, Glenn R.
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 Miller, Hyman
 Miller, John S.
 Miller, John W.
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 Beaupre
 Miller, Oren Elmer
 Miller, Mrs. Thomas S.
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 Milliken, John F.
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 Dorothy Stone
 Mills, Lloyd Langdon
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 Milnor, George B.
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 Minkler, Ralph R.
 Mints, Thomas M., Jr.
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 Mitchell, Oliver L.
 Mitchell, Thomas E.
 Mizen, Dr. Michael R.
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 Mrs. Horace M.
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 Molloy, David J.
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 Montana, James S.
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 Moore, Chester G.
 Moore, Edwin R.
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 Moore, Dr. Josiah J.
 Moore, Oscar L.
 Moore, Paul
 Moore, Philip Wyatt
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 Mordock, John B.
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 Elizabeth W.
 Morgan, K. P.
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 Moroni, Aldo L.
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 Morrison, D. K.
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 Morrison, Mrs. Harry
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 Morse, Robert H.
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 Mouat, Andrew J.
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 Charles
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 Wilbur C.
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 Carroll Dean, Jr.
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 Naess, Sigurd E.
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 Nathan, Thomas
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 Nelson, Charles M.
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 Nelson, James S.
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 Newberger, Joseph
 Michael
 Newberger, Keneth O.
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 Newman, Charles H.
 Newman, Ralph G.
 Newsome, James E.
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 Nichols, Frank Billings
 Nichols, J. C.
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 Hermien D.
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 Dr. Andrew J.
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 O'Brien, Miss Janet
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 Daniel
 O'Connell,
 Dr. Franklin T.
 O'Connor, Hugh J.
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 O'Connor, Thomas S.
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 Offield, Wrigley
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 Franklin
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 Ott, Wendel Fentress
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- Paasche, Jens A.
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 Packard, Dr. Rollo K.
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 Palmer, James L.
 Palmer, O. Earl
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 Parry, Mrs. Norman G.
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 Patterson, Grier D.
 Patterson, R. Curtis
 Patterson, Thomas A.
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 Philipsborn,
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 Pray, Max
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 Prince, Rev. Herbert W.
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 Purcey, Victor W.
 Putterman, A. Jerry
 Puttkammer, E. W.
- Puzey, Russell V.
 Pyshos, Basil N.
- Quick, Miss Hattiemeae
 Quigley, Jack A.
- Raab, S. S.
 Racheff, Ivan
 Radebaugh, Richard J.
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 Radford, Mrs. W. A., Jr.
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 Ragan, Alvin J.
 Railton, Miss Frances
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 Raisch, L. S.
 Ramis, Leon Lipman
 Randall, Irving
 Raney, Mrs. R. J.
 Rankin, Miss Jessie H.
 Rathburn, M. Hudson
 Rathje, Frank C.
 Ratner, Walter B.
 Rawson, Miss Georgia C.
 Ray, Hugh L.
 Rayfield,
 Master Russell P.
 Rayfield,
 Master Rutherford P.
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 Howard D.
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 Ready, Charles H.
 Reals, Miss Lucile
 Farnsworth, Jr.
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 Redfield, William M.
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 Reed, Mrs. John Shedd
 Reed, Mrs. Lila H.
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 Reeder, Dr. Clifton L.
 Reeder, Howard C.
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 Regan, Mrs. Robert G.
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 Regenstein, Miss Ruth
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 Reid, Mrs. Bryan
 Reid, Bryan S., Jr.
 Reid, Robert H.
 Reilly, George A.
 Reilly, Vincent P.
 Reinecke, Lester W.
 Reisch, Mrs. Louis J.
 Remien, Miss
 Marie Katherine
- Renaldi, George J.
 Renn, Mrs. John A.
 Renouf, William
 Renshaw, Mrs. Charles
 Rentschler, Mrs.
 William H.
 Replogle, Dr. Fred A.
 Re Qua, Mrs. Charles
 Howard, Jr.
 Rew, Mrs. Irwin
 Reynolds, Mrs.
 G. William
 Reynolds, Harold F.
 Reynolds, James A., Jr.
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 Rice, Laurence A.
 Rice, Dr. Orlin W.
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 Rich, Franklin J.
 Rich, Harry
 Richards, Mrs. Bartlett
 Richards, Donald
 Richards, Longley
 Richards, Marcus D.
 Richardson, Irving
 Richman, Charles P.
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 Rickcords, Mrs.
 Francis Stanley
 Ridley, Douglas K.
 Rieg, George S.
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 Rietz, Elmer W.
 Rietz, Walter H.
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 Riley, John H.
 Rinaldo, Philip S., Jr.
 Rinder, George G.
 Rindfleisch, Keith P.
 Ring, Leonard M.
 Rink, George A.
 Risdon, Russell R.
 Ritchie, Mrs. John
 Robb, James T.
 Roberts, Charles S.
 Roberts, Harry V.
 Roberts, William
 Munsell
 Robertson, Scott
 Robinson, Edward
 Robinson, Milton D.
 Robinson, Miss
 Rosemary
 Robinson, R. W.
 Robinson,
 Theodore W., Jr.
 Robinson, William S.
 Rochetto, Mrs. Evelyn

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- Roddewig, Clair M.
 Rodgers, Dr. David C.
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 Rodman, Thomas
 Clifford
 Roe, Frederick
 Roebuck, Mrs. A. S.
 Roehling, Mrs. Otto G.
 Roehm, George R.
 Roehrborn, Ernest R.
 Rogers, Miss Annie T.
 Rogers, Mrs. George P.
 Rogers, James Waller
 Rogers, Lester C.
 Roggenkamp, John
 Rohloff, Paul F.
 Rolnick, Dr. Donald
 Romane, Julian J.
 Rome, Samuel
 Romer, Mrs. Arthur C.
 Roos, Miss Virginia M.
 Root, Robert A.
 Rosborough, Dr. Paul A.
 Rose, Miss Evelyn
 Rose, George E., Jr.
 Rosen, M. R.
 Rosenbaum, Arthur
 Rosenbaum, Mrs.
 Edwin S.
 Rosenbaum, Mrs.
 Harold A.
 Rosenblatt, S. L.
 Rosenfeld, M. J.
 Rosenfels, Mrs. Irwin S.
 Rosenstone, Nathan
 Rosenstone, Samuel
 Rosenthal, Gerson M., Jr.
 Rosenthal, J. F.
 Rosenthal, M. A.
 Rosenthal, Samuel R.
 Rosenwald, Richard M.
 Ross, Mrs. Doris Serrins
 Ross, Earl
 Ross, Melville, Jr.
 Ross, Peter H.
 Ross, Robert C.
 Ross, Thompson
 Rosset, Harry
 Rotchford, J. Stuart
 Rotenberry, Dean
 Roth, Mrs. Donald I.
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 Roth, Mrs. Margit
 Hochsinger
 Roth, Walter L.
 Rothacker, Watterson R.
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 Rothschild, George
 William
 Rothschild,
 Melville N., Jr.
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 Rubloff, Arthur
 Rubnitz, Dr. Myron E.
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 Ruskin, Harry H.
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 Russell, Robert S.
 Ruttenberg, David C.
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 Ryan, Bernadette T.
 Ryan, Eugene F.
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 Ryser, Frank
 Saalfeld, Harry H.
 Sacco, Anthony E.
 Sachar, Bernard
 Sachs, Jack L.
 Sackett, Samuel J.
 Sage, W. Otis
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 Salak, C. James
 Sale, Robert C.
 Salk, Erwin A.
 Salk, Dr. Melvin R.
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 Saltzberg, Gerald B.
 Salzman, Charles N.
 Sample, John Glen
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 Samuelson, George
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 Sandquist, Elroy C., Jr.
 Sandquist, Dr. Robert W.
 Sands, Mrs. Frances B.
 San Filippo, Dr. Paul D.
 Sang, Bernard G.
 Sanow, Harry R.
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 Sargent, Chester F.
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 Sauter, Fred J.
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 Sawyier, Calvin P.
 Sax, Leonard B.
 Sayers, Miss Edith E.
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 Scarborough, Mrs. Henry
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 Schaefer, Fred A.
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 Schaffner, Mrs. L. L.
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 Schanck, Francis R.
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 Scheinman, Jesse D.
 Scheff, Dr. Lawrence J.
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 Schelthoff, John W.
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 Schenk, Miss Marion H.
 Scheu, Ralph
 Schick, Dr. Armin F.
 Schiff, Max
 Schild, Mrs. Gerhart
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 Benjamin B.
 Schneider, D. G.
 Schneider, F. P.
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 Schnering, Robert B.
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 Charles W.
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 Schreiner, Sigurd
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 Schwartz, Joseph H.
 Schwartz, Leo J.
 Schwartz, Milton H.
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 Schwinn, Frank W.
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 Scribner, Gilbert H., Jr.
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 Sears, Miss Dorothy
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 See, Dr. Agnes Chester
 Seeburg, Justus P.
 Seeburg, Noel M., Jr.
 Seeley, Miles G.
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 Segal, Victor
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 Arthur B., Jr.
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 Seipp, Clarence T.
 Seipp, Edwin A., Jr.
 Seipp, William C.
 Selby, Peter Spengler
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 Selig, Lester N.
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 Sexton, Thomas G.
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 Shapiro, Henry
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 Sharrow, H. N.
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 Shepherd, Miss Olive M.
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 Shuart, Karl P.
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 De Witt
 Shumway, Spencer
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 Shure, Myron B.
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 Sikking, Art L., Jr.
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 Silberman, Charles A.
 Silberman, David, Jr.
 Silberman, Hubert S.
 Silberman, N. M.
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 Sills, Clarence W.
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 Simonds, Dr. James P.
 Simonson, Burton E.
 Simpson, Lyman M.
 Sims, Edwin W., Jr.
 Sims, William W.
 Sinaiko, Dr. Edwin S.
 Sincere, Henry B.
 Sinclair, Dr. J. Frank
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 Singer, William A.
 Sinsheimer, Allen
 Siragusa, Ross D.
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 Sivage, Gerald A.
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 Skudstad, Richard L.
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 Sloan, Dr. Noah H.
 Smallberg, Dr.
 William A.
 Smeeth, William B.
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 Smigiel, Chester W.
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 Smith, Goff
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 Katharine Walker
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 Smith, Lynwood
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 White
 Smith, Z. Erol
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 Snyder, Harry
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 Solinsky, R. S.
 Solomon, Alfred B.
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 Sorensen, Stanley M.
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 L.
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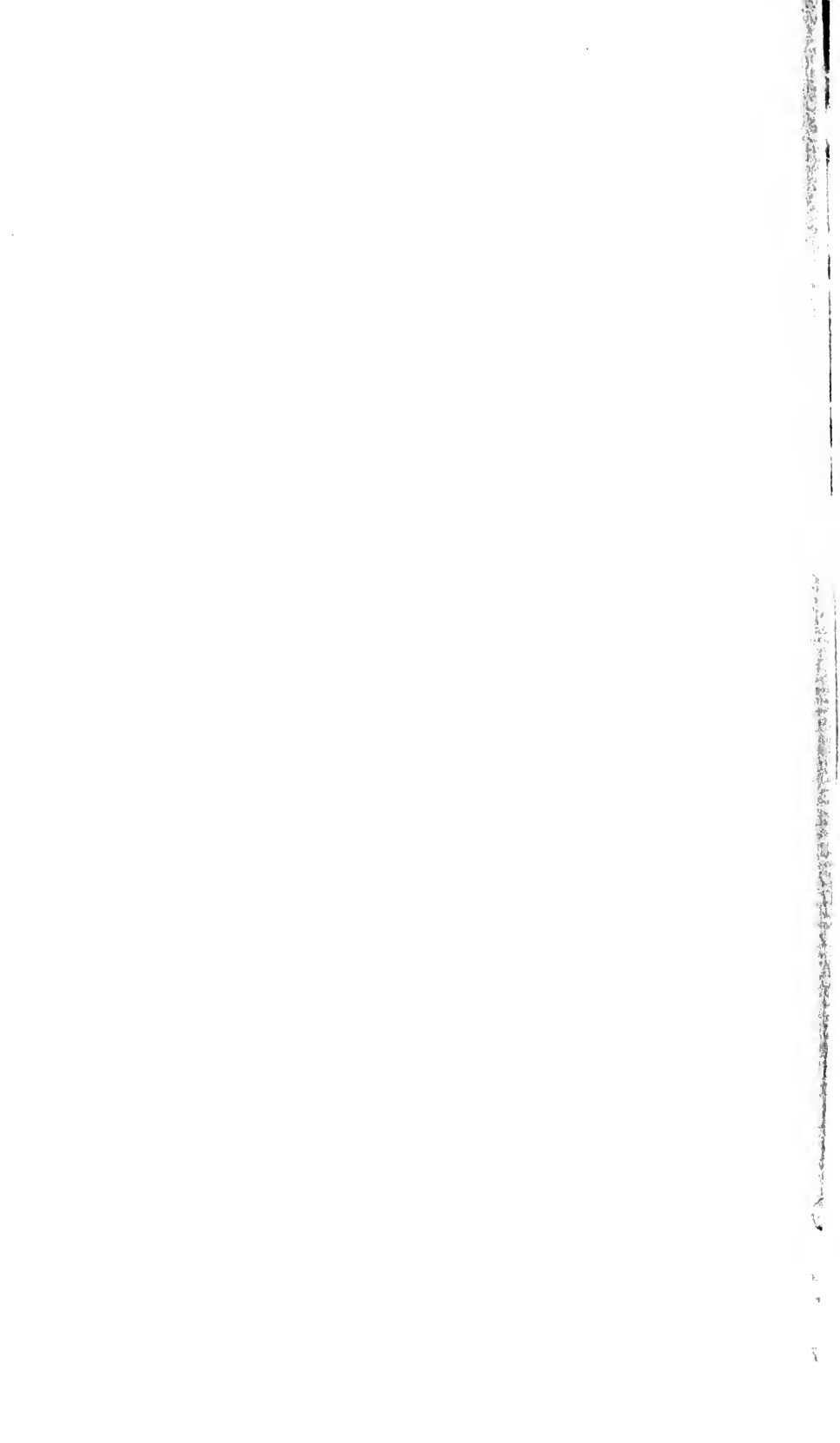
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