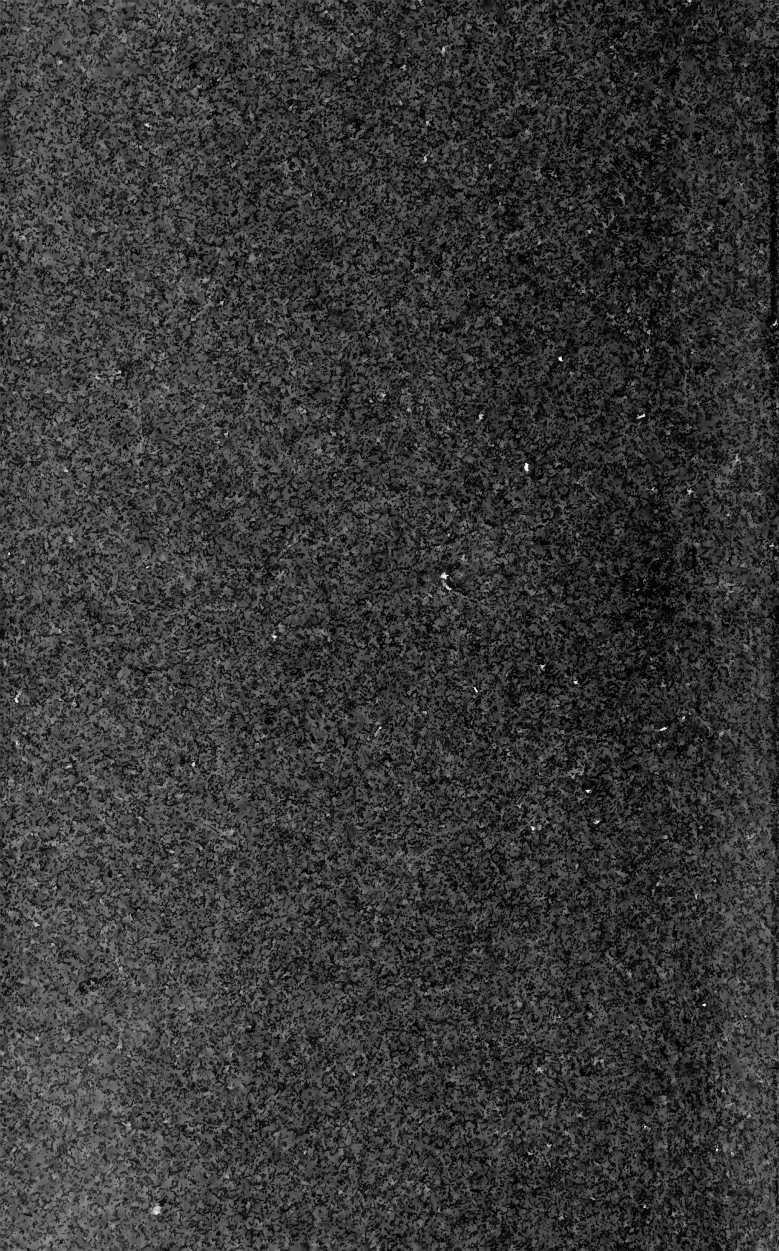
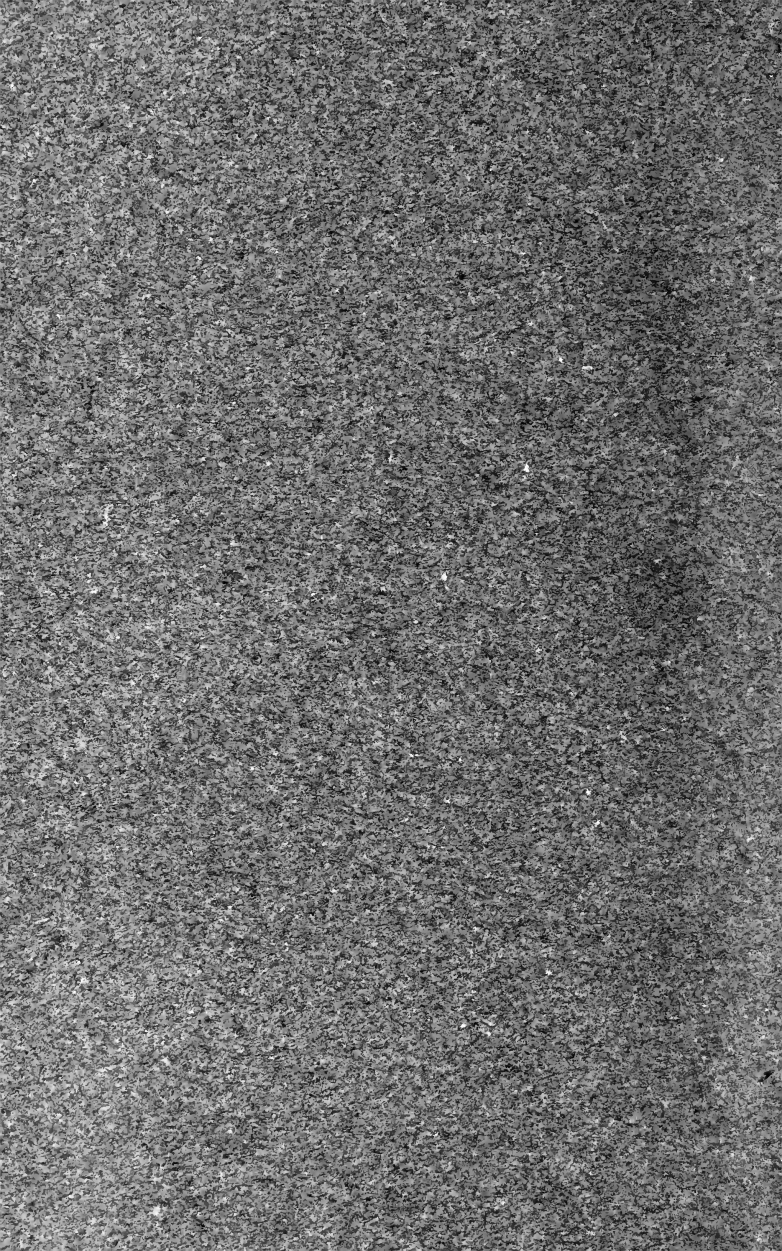


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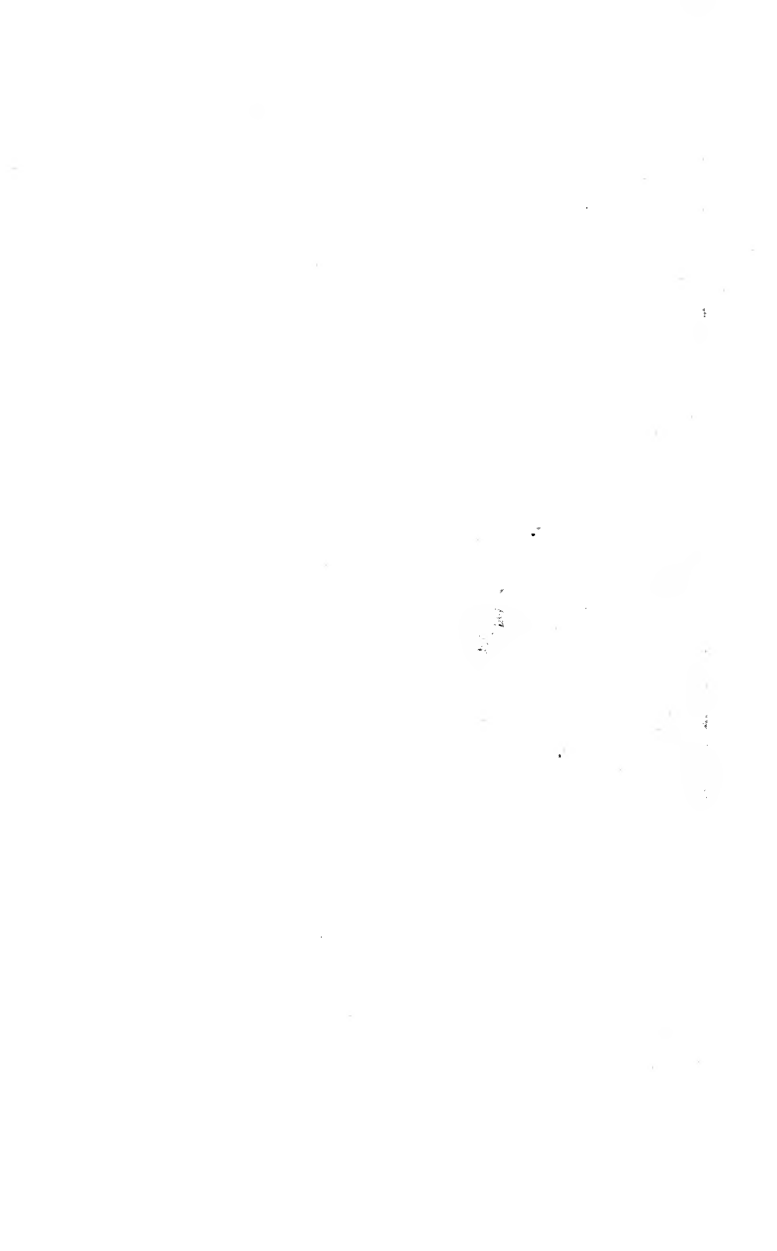
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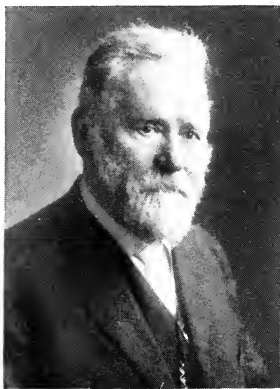
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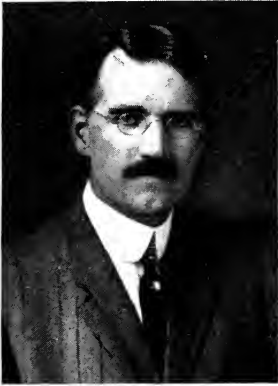
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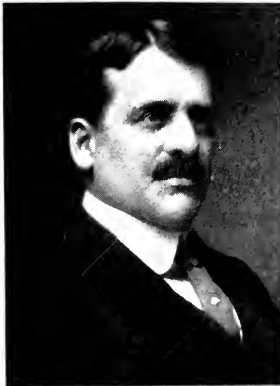
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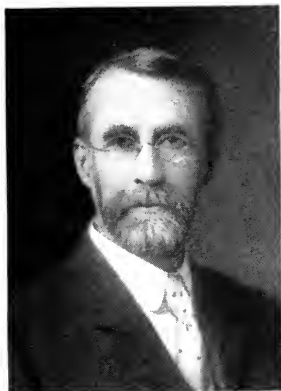
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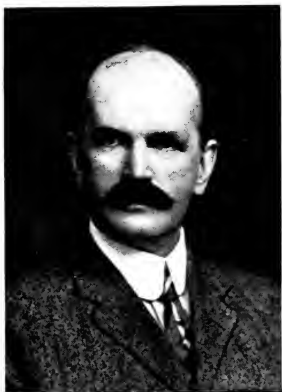
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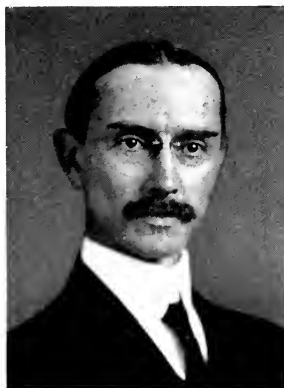
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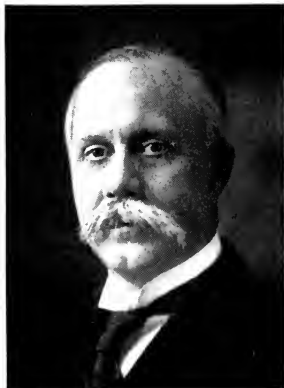
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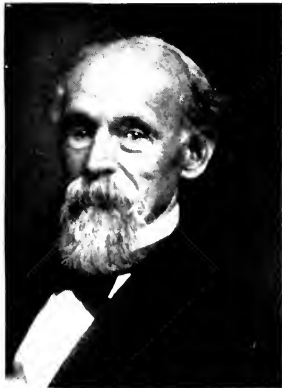
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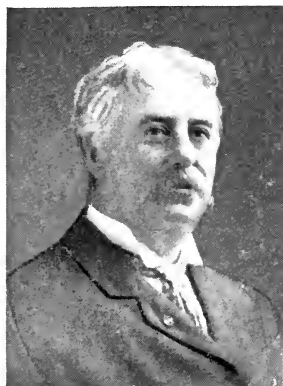
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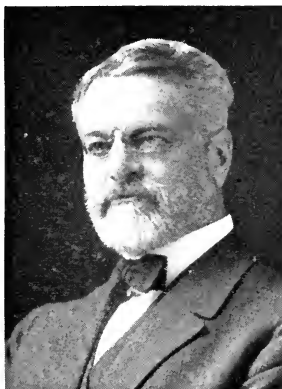
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YEAR BOOK

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ARRANGED ALPHABETICALLY
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CORRECTED TO JANUARY 1, 1916



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1916

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Reincorporated 1908

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29 West 39th Street, New York

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J. A. NORCROSS

I. P. BRECKENRIDGE
HENRY BREWER

LOCAL SECTIONS—(Cont.)

New York

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JOHN P. NEFF (2), *Secretary* EDWIN J. PRINDLE (4)
ALFRED D. BLAKE (5)

Philadelphia

ROBERT H. FERNALD, *Chairman* HENRY E. EHLERS
WILLIAM R. JONES, *Secretary* JAMES E. GIBSON
EMMETT B. CARTER ANDREW C. VAUCLAIN

Saint Louis

EDWARD FLAD, *Chairman* FREDERICK E. BAUSCH
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FREDERICK W. GAY, *Chairman* C. F. BRAUN, *Secretary*
FRANK H. VARNEY, *Vice-Chairman* H. L. TERWILLIGER
J. T. WHITTLESEY

Worcester

PAUL B. MORGAN, *Chairman* CARL F. DIETZ
EDGAR H. REED, *Secretary* HOWARD P. FAIRFIELD
FREDERICK W. PARKS

OFFICERS OF AFFILIATED SOCIETY

Providence Association of Mechanical Engineers

W. H. PAINE, *President* J. A. BROOKS, *Secretary*
ARTHUR H. ANNAN, *Vice-President* A. H. WHATLEY, *Treasurer*

NOTE—Numbers in parentheses indicate the number of years the member has yet to serve.

OFFICERS OF THE STUDENT BRANCHES

Institution	Date Authorized by Council	Honorary Chairman	Chairman and Secretary
Arkansas, University of, Fayetteville, Ark.....	1910	B. N. Wilson.....	{ W. G. Horton J. C. Moody
Armour Institute of Tech., Chicago, Ill.....	1909	G. F. Gebhardt....	{ J. M. Byanskas E. S. Echlin
Bucknell College, Lewisburg, Pa.....	1916	F. E. Burpee.....	{ T. L. James C. E. Lewis
California, University of, Berkeley, Cal.....	1912	Joseph N. LeConte.	{ C. Sebastian E. Eichler
Carnegie Institute of Tech., Pittsburgh, Pa.....	1913	W. Trinks.....	{ Benj. Schwartz John T. Eaton
Case School of Applied Science, Cleveland, O.....	1913	F. H. Vose.....	{ Geo. S. Baldwin Louis H. Ashmun
Cincinnati, University of, Cincinnati, O.....	1909	J. T. Faig.....	{ A. J. Langhammer W. T. Cowell
(Colo.) State Agri. College, Fort Collins, Colo.....	1914	J. W. Lawrence....	{ A. T. Johnson T. H. Sackett
Colorado, University of, Boulder, Colo.....	1914	John A. Hunter....	{ Edison B. Good Wilfred Sawyer
Columbia University, New York, N. Y.....	1909	Chas. E. Lucke....	{ L. H. Nielsen Chas. W. Sengstaken
Cornell University, Ithaca, N. Y.....	1908	R. C. Carpenter....	{ A. R. Cota W. F. Courtney
Georgia School of Tech, Atlanta, Ga.....	1915	J. S. Coon.....	{ R. S. Fleet P. N. Johnson
Illinois, University of, Urbana, Ill.....	1909	W. F. M. Goss....	{ R. C. Maley E. B. Stout
Iowa, State University of, Iowa City, Ia.....	1913	R. S. Wilbur.....	{ C. W. Harrison Victor Johnson
Kansas State Agri. College, Manhattan, Kan.....	1914	A. A. Potter.....	{ L. A. Wilsey F. R. Rawson
Kansas, University of, Lawrence, Kan.....	1909	A. H. Sluss.....	{ J. Stillwell A. J. Nigg
Kentucky, State University of, Lexington, Ky.....	1911	F. P. Anderson....	{ J. D. Garrett Geo. L. Cherry
Lehigh University, South Bethlehem, Pa.....	1911	P. B. de Schweinitz.	{ Miles W. Kresge Wm. C. Hartmann
Leland Stanford Jr. University, Stanford Univ., Cal.	1909	W. F. Durand.....	{ W. H. Warren H. F. Elliot

Institution	Date Authorized by Council	Honorary Chairman	Chairman and Secretary
Louisiana State University, Baton Rouge, La.....	1916	E. W. Kerr.....	
Maine, University of, Orono, Me.....	1910	C. H. Lekberg.....	{ J. M. Dodge A. G. Smith
Massachusetts Institute of Tech., Boston, Mass.....	1909	E. F. Miller.....	{ K. C. Richmond H. P. Gray
Michigan, University of, Ann Arbor, Mich.....	1914	John R. Allen.....	{ H. S. Manwaring Frank C. Riecks
Minnesota, University of, Minneapolis, Minn.....	1913	W. H. Kavanaugh..	{ G. A. Ek I. L. Johnson
Missouri, University of, Columbia, Mo.....	1909	H. Wade Hibbard..	{ J. C. Squires R. Coatsworth
Nebraska, University of, Lincoln, Neb.....	1909	J. D. Hoffman.....	{ L. L. Westling R. B. Saxon
New York University, New York, N. Y.....	1909	C. E. Houghton....	{ C. A. Pines John A. Inwright
Ohio State University, Columbus, O.....	1911	Wm. T. Magruder..	{ Harold H. Brooks Ray Ellis
Pennsylvania State College, State College, Pa.....	1909	Hugo Diemer.....	{ G. Jeffery G. S. West
Polytechnic Institute of Brooklyn, Brooklyn, N. Y.....	1909	W. D. Ennis.....	{ Herman Brandt Charles E. Rohmann
Purdue University, Lafayette, Ind.....	1909	G. A. Young.....	{ W. T. Miller L. C. McAnley
Rensselaer Polytechnic Institute, Troy, N. Y.....	1910	A. M. Greene, Jr...	{ J. B. Lincoln J. W. Hartman
Stevens Institute of Tech., Hoboken, N. J.....	1908	Alex. C. Humphreys	{ J. B. Roberts, Jr. J. M. Wilcox
Syracuse University, Syracuse, N. Y.....	1911	W. E. Ninde.....	{ D. R. Hay H. B. Tracy
Throop College of Technology, Pasadena, Cal.....	1914	W. H. Adams.....	{ R. O. Catland H. A. Black
Virginia Poly. Inst., Blacksburg, Va.....	1915	L. S. Randolph.....	{ J. W. Kavanaugh G. E. Parker
Washington University, St. Louis, Mo.....	1911	E. L. Ohle.....	{ John J. Summersby Edmond Siroky
Wisconsin, University of, Madison, Wis.....	1909	J. G. D. Mack.....	{ J. B. Wilkinson G. C. Richardson
Worcester Polytechnic Inst., Worcester, Mass.....	1914	W. W. Bird.....	{ Harold Nutt H. P. Fairfield
Yale University, New Haven, Conn.....	1910	L. P. Breckenridge..	{ E. B. Ripley W. B. Day

GENERAL INFORMATION

THE SOCIETY, ITS OBJECTS AND ACTIVITIES

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS was founded in 1880 "to promote the arts and sciences connected with engineering and mechanical construction." The Society endeavors to accomplish this object through its meetings, held periodically in fifteen industrial centers throughout the United States; its publications—The Journal and Transactions—which are distributed to its membership, to libraries in exchange and to others by subscription; its large number of committees, working to develop the Society's usefulness in the mechanical engineering profession; and its library, located in New York City, but available to engineers throughout the country through the medium of a special library mail service.

HEADQUARTERS

The headquarters of The American Society of Mechanical Engineers is in the Engineering Societies Building, 29 West 39th Street, New York, situated midway between Fifth Avenue and Broadway, in the Times Square District, and a short distance from and midway between the Grand Central Terminal and the Pennsylvania Station.

The Engineering Societies Building is owned jointly by the American Institute of Electrical Engineers, the American Institute of Mining Engineers and The American Society of Mechanical Engineers, known as the Founder Societies. Its erection, and that of the Engineers' Club which adjoins, was made possible through the generosity of Mr. Andrew Carnegie, Honorary Member, who in 1903 contributed \$1,500,000 for the purpose. The three Societies and the Club purchased the land on which the respective buildings stand.

The Engineering Societies Building was completed and opened in 1907. It is thirteen and one-half stories high, has a frontage of 115 feet and is 90 feet deep. On the third and fourth floors is an auditorium seating 1,000 persons, and on the two floors above are smaller halls for meeting purposes. The Library of the three Founder Societies is housed on the two upper floors.

Each of the Founder Societies occupies one entire floor of the

GENERAL INFORMATION

building, and a score of other kindred organizations have offices in it. The American Society of Mechanical Engineers occupies the eleventh floor. Its rooms include a Council Room, Reception Room, Secretary's Office and general offices and members' rooms. The surroundings are homelike and the headquarters furnish a convenient rendezvous for members and their friends.

MEMBERSHIP

The membership of the Society comprises Honorary Members, Members, Associates, Associate-Members and Juniors, all elected by ballot of the Council. Application for membership is made on a regular form furnished by the Secretary which provides for a statement of the standing and professional experience of the applicant and requires references from several voting members who are personally acquainted with the applicant and his work. The requirements for admission to the various grades are given in the Constitution published in the back of this volume.

The initiation fee for Members, Associates, and Associate-Members is \$25 and for Juniors \$15. The annual dues are \$15 for Members, Associates and Associate-Members, \$10 for Juniors for the first six years and \$15 thereafter.

Candidates for admission to the Society are posted in the issue of The Journal following the receipt of their applications. A period of forty days is given in which the members may advise the Secretary of any objection they may have to the election of any candidate. Simultaneously the Secretary communicates with the references. The Membership Committee then meets to consider each application and make recommendation to the Council as to the grade to which candidates who receive their favorable consideration shall be assigned.

A list of the candidates, together with the recommendations of the Membership Committee, is then submitted to the Council for vote by letter-ballot. Upon the closing of the ballot by the Council the Secretary advises all successful applicants of their election. The initiation fee and that part of the annual dues from the first of the month following the date of election to the first of October following, are payable on notice of election.

Applications for membership from candidates who may be so situated as not to be personally known to the necessary number of members of the Society may be recommended by the Membership Committee for ballot, after sufficient evidence has been secured from officers or voting members of other engineering societies of like standing to satisfy the committee that the applicant is worthy of admission to membership.

PRIVILEGES

Membership in The American Society of Mechanical Engineers affords the privilege of engaging in a broad work for the advancement of the engineering profession, and establishes a high standard of professional attainment for the individual member. Many advantages accrue from association at the meetings and mutual interchange of information and courtesies.

Every member receives a copy of each of the Society's publications, which include The Journal, issued monthly, the Transactions, published annually, and the Year Book.

Members enjoy the benefits of the joint Library of the Society and its sister organizations, in the Engineering Societies Building in New York, together with, by exchange of courtesies, those of a number of engineering libraries throughout the country.

Members are invited to make use of the Society's headquarters for business purposes or their own personal convenience. Rooms for private consultation and working alcoves can be provided, and for correspondence purposes stenographers and dictaphones are available. Personal mail is received at the headquarters and forwarded for out-of-town members.

An engraved certificate of membership signed by the President and Secretary, and authenticated by the seal of the Society, is issued to members on request.

Members are entitled to wear the official badge of the Society and to use after their names the regular abbreviations denoting their connection with the Society.

An introduction card is issued annually to all members. Besides serving as a means of identification, this also gives entrée to nearly a score of engineering societies in this country and in Europe, with whom an exchange of privileges has been arranged.

GOVERNMENT

The American Society of Mechanical Engineers is governed by a Council consisting of the President of the Society, six Vice-Presidents, nine Managers, the Treasurer, and the five surviving Past-Presidents who last held office.

The various activities of the Society are directed by standing committees of five members each, on Finance, Meetings, Publication, Membership, Library, House, Research, Public Relations, Constitution and By-Laws, and Standardization. The members of these committees are appointed by the President.

PROFESSIONAL COMMITTEES

Besides the standing committees, special committees are appointed to investigate and report upon questions of mechanical engineering interest. Many useful and important investigations by such committees are already on record and are available in pamphlet form:

Further, the Council, recognizing the extent to which industrial expansion has increased the field of the mechanical engineer, has authorized the appointment of sub-committees of the Committee on Meetings for each industry and branch of engineering. Of the thirty-eight sub-committees contemplated, practically all have been appointed and are actively at work. Each committee consists of men recognized as specialists in their fields.

Through its committees the Society has the services of several hundred experts who conduct timely investigations and researches or supervise the selection of technical material for presentation at its meetings. This large body of representative men in the profession is constantly broadening the scope of the Society and its work, and is bringing it into close touch with related bodies, professional, commercial and public. The interest and coöperation of all engineers is desired in this work, and those who can assist in the work already under way or are interested in the formation of other committees are invited to communicate with the Secretary.

LOCAL SECTIONS

The Constitution of the Society provides for the authorization by the Council of the organization of sections or groups of all grades of membership for professional or scientific purposes, and the Council encourages members to form such organizations. These sections have such powers and act under such rules as the Council prescribes. The Chairman or Secretary of each Local Section attends a conference at the general meetings of the Society.

In a center where members consider it desirable to establish a Local Section, it is customary to call an organization meeting and have all those attending sign a petition to the Council. At the same time, five officers are tentatively elected to govern the Section. The petition is forwarded to the Committee on Local Sections, by whom it is, upon approval, transmitted to the Council. The Council acts upon the recommendation of the Committee on Local Sections and at the same time ratifies the officers. The Committee on Local Sections notifies the Section of its

establishment and grants an appropriation to carry on its work for the fiscal year; this appropriation is based on a flat sum plus an additional amount for each member within a radius of from 30 to 60 miles of the center.

In centers in which engineering clubs or like affiliations are already in existence, most cordial coöperation is desired between such organizations and any Local Section of the Society which may be formed.

Local Sections of the Society have been established at Atlanta, Birmingham, Boston, Buffalo, Chicago, Cincinnati, Los Angeles, Milwaukee, New Haven, New York, Philadelphia, St. Louis, St. Paul-Minneapolis, San Francisco and Worcester. Members in several cities are planning to apply for the establishment of new sections during the current year.

INSIGNIA

The seal of the Society, a facsimile of which appears on the cover of the Year Book, is based on the saying attributed to Archimedes, "Give me where I may stand and I will move the world."

The official badge of the Society is a four-leaf clover design bearing the Society's initials. The badge for Honorary Members, Members, Associates and Associate-Members is in dark blue enamel, with letters in bright gold. The Junior badge is in crimson enamel, also with letters in bright gold.

MEETINGS

The Society holds two general meetings each year. At both of these contributed papers are discussed and personal ideas on professional topics are exchanged. These meetings are the Annual Meeting held in New York, beginning the first Tuesday in December, and the Spring Meeting held at such time and place as the Council designates. Announcement of the election by membership ballot of the officers of the Society for the ensuing year is made at the Annual Meeting.

The general meetings are under the direction of the Committee on Meetings and papers to be presented are subject to the approval of this Committee. The social features at the general meetings are especially enjoyable and play an important part in the extension of acquaintance. Excursions to points of mechanical engineering interest are always made, and the program of events is made as attractive as possible.

Under the provision of the Constitution for Local Sections regu-

lar meetings have been held at frequent intervals at the fifteen centers mentioned above. The New York meetings are held regularly in the Engineering Societies Building on the evenings of the second Tuesdays in October, November, January, February, March and April.

Various other local meetings are conducted as meetings of members in the locality, or as meetings of societies affiliated with the Society, according to the arrangements made.

The papers for these meetings are subject to the approval of the committee in charge and papers presented are considered by the Committee on Publications for publication in *The Journal*, and by the Committee on Meetings for the general meetings of the Society.

PROFESSIONAL PAPERS

Papers and discussions of mechanical engineering interest are invited from members for presentation at meetings, and contributions are also welcomed from non-members.

Such papers and discussions should contain engineering data of value to the mechanical engineering profession arranged for convenient reference. Matter already accessible, or of a speculative character, or which advocates special interests, is not acceptable. Papers should be submitted in complete form to the Secretary.

Each paper or discussion is subject to the approval and editorial supervision of the committee in charge of the meeting at which it is to be presented.

Papers for presentation at a general meeting are usually published in advance in pamphlet form, for distribution to those requesting them with a view to contributing discussion, and to those in attendance at the meeting.

PUBLICATIONS

The *Journal of The American Society of Mechanical Engineers* is published monthly. Subscription to *The Journal* is included in the membership dues.

Features of *The Journal* are papers and discussions presented at general meetings of the Society; papers, or abstracts with discussion, presented at meetings of Local Sections; announcements and reports upon Society affairs and incidents; reports of activities of Student Branches; employment bulletin; Library notes; personal notes; a department for contributed discussion of papers previously published, or new matter; members' correspondence department, including suggestions on Society affairs;

review of the world's technical press, and review of technical books by experts selected by the Publication Committee.

The Transactions of The American Society of Mechanical Engineers is published annually, bound in half morocco, and issued free to members.

The Transactions contain, subject to the approval of the Publication Committee, all the papers and discussions presented at general meetings of the Society, papers and discussions presented at Local Section meetings which in the opinion of the Publication Committee are of sufficient merit, and reports of technical committees.

The Year Book of The American Society of Mechanical Engineers is issued in February of each year. It contains alphabetical and geographical lists of members, corrected to January first of the same year; together with the Charter, Constitution, By-Laws and Rules of the Society, etc. A copy of the Year Book is sent free to each member.

Most of the papers presented before meetings of the Society in recent years have been published as separate pamphlets. A circular giving the titles of such papers and prices may be obtained on request.

LIBRARY

The Library of The American Society of Mechanical Engineers is combined with those of the American Institute of Mining Engineers and the American Institute of Electrical Engineers, and the three are maintained as the joint Library of the United Engineering Society. This is one of the finest collections of engineering and scientific publications in the world, and comprises over 65,000 volumes, including many rare and valuable reference works not readily accessible elsewhere. Over 1000 technical journals and magazines are regularly received, including practically every important engineering journal in the fields of mechanical, electrical and mining engineering.

The Library is located on the two upper floors of the Engineering Societies Building and is open on week days from 9 a. m. to 10 p. m., except Christmas Eve and New Year's Eve, and Saturdays during the months of June, July, and August, when it is closed at 6 p. m., and Christmas Day, New Year's Day, Thanksgiving and Independence Days, when it is closed entirely.

Full privileges of the Library are accorded to members of this Society on presentation of Society membership card, and also to non-members officially introduced by the Secretary. Reading room facilities are open to the public at large.

The Library maintains a service bureau comprising a staff of

GENERAL INFORMATION

expert searchers and translators for verifying references, furnishing bibliographies of engineering subjects, original prints, abstracts, copies, photographs and translations, and also makes searches for patent purposes, prepares reference cards, etc., all work being confidential.

The Library acts as a bureau of general information for engineers, furnishing addresses of engineers, names of publishers of books and periodicals, addresses of manufacturers, and statistics of various kinds.

Facilities are available for keeping members of the Society posted on the current publications on any engineering subject. Also a bibliography on any subject is prepared on request and the volumes relating thereto set aside for the perusal of members who are able to visit the Library.

When necessary to charge for service, it is at actual cost. The Library does not carry on any work of a commercial nature.

PROFESSIONAL OPPORTUNITIES

The Society acts as an informal medium for bringing members in touch with professional opportunities. This service is personally supervised by the Secretary and all matters are strictly confidential.

An employment bulletin is maintained in The Journal, in which announcements of "Positions Available" as well as abstracts of records of "Men Available" are regularly posted. All insertions are made without charge.

Members are urged to send information to the Secretary regarding vacancies which might be filled by fellow members out of employment or seeking opportunity for advancement.

Large numbers of members are constantly being served by this "clearing house" for mechanical engineering positions.

STUDENT BRANCHES

The Council has recognized the requests of organizations of students in engineering schools to associate themselves with the Society as Student Branches, and to date forty organizations have made this affiliation. Each branch is governed independently under its own by-laws, subject to certain limitations set by the Council.

To form such a branch, an application signed by the dean of the school or college, and by a member of the Society who is also a member of the faculty, should be presented to the Council. Forms for this purpose are obtainable from the Secretary. Students regularly enrolled in these branches may subscribe to The

Journal at members' rates. Graduates may continue their affiliation in Student Branches for a period of two years after graduation and should apply for renewal of privileges each year to the Secretary of the Student Branch at the College from which they were graduated.

Members of these Student Branches are entitled to attend the regular meetings of the Society and its Sections. They are thereby afforded opportunities for becoming acquainted with members of the Society and for getting in touch with the practical problems occupying the attention of the engineering profession.

A badge for members of Student Branches has been approved and a card of introduction is issued to Student Branch members.

A special brochure descriptive of Student Branches may be had upon application to the Secretary.

PRIZES FOR TECHNICAL PAPERS

Through the generosity of a member, there have been established two funds of \$1000 each, to be known as The American Society of Mechanical Engineers Prize Funds, the income from which is to be awarded for the best paper by a Junior member of the Society and to such two enrolled members of any Student Branch as contribute the best papers.

Such an award offers a valuable aid to the young engineer to undertake original work and is in line with the practice of many foreign societies.

Rules have been drawn up and approved by the Council with reference to the distribution of these prizes, those governing the Junior papers having been formulated by the Committee on Award of Prizes for Juniors, and those governing Student papers by the Committee on Student Branches.

It is the hope of the Council that a large number of papers will be submitted during the current year for the decision of the Committee on Prizes.

The conditions governing the awards are given in the Rules published in the back of this volume.

In 1915 the award of the Junior Prize was made to Ernest O. Hickstein, Jun. Am. Soc. M. E., for his paper on The Flow of Air Through Thin Plate Orifices. No award of the Student Prize was made in 1915.

JOHN FRITZ MEDAL

The John Fritz Medal, established in 1902, on the eightieth birthday of John Fritz, by professional associates and friends

GENERAL INFORMATION

as a means of perpetuating the memory of his achievements in industrial progress, is awarded annually for notable scientific or industrial achievement, irrespective of nationality or sex.

The award is made by a board composed of sixteen members, four from each of the American Society of Civil Engineers, the American Institute of Mining Engineers, The American Society of Mechanical Engineers, and the American Institute of Electrical Engineers.

Awards of this medal have been made as follows:

In 1902 to John Fritz, Hon. Mem. Am. Soc. M. E., for notable scientific and industrial achievement.

In 1905 to Lord Kelvin for his work in the development of cable telegraphy and other scientific accomplishments.

In 1906 to George Westinghouse, Hon. Mem. Am. Soc. M. E., for the invention and development of the air brake.

In 1907 to Alexander Graham Bell for the invention and development of the telephone.

In 1908 to Thomas Alva Edison, Hon. Mem. Am. Soc. M. E., for the invention of the duplex and quadruplex telegraph, the phonograph, the development of a commercially practical incandescent lamp, the development of a complete system of electric lighting, including dynamos, regulating devices, underground system, protective devices and meters.

In 1909 to Charles T. Porter, Hon. Mem. Am. Soc. M. E., for his work in the origination and development of the high-speed steam engine.

In 1910 to Alfred Noble, Mem. Am. Soc. M. E., for notable achievements as a Civil Engineer.

In 1911 to Sir William H. White, Hon. Mem. Am. Soc. M. E., for notable achievements in marine engineering.

In 1912 to Capt. Robert W. Hunt, Past-President Am. Soc. M. E., for his contributions to the early development of the Bessemer process.

In 1914 to Prof. John E. Sweet, Hon. Mem. Am. Soc. M. E., for his achievements in machine design, and for his pioneer work in applying sound engineering principles to the construction and development of the high-speed steam engine.

In 1915 to Dr. James Douglas for notable achievements in mining, metallurgy, education and industrial welfare.

HONORARY MEMBERS IN PERPETUITY

ALEXANDER LYMAN HOLLEY, Deceased Founder of the Society.

HENRY ROSSITER WORTHINGTON, Deceased Founder of the Society.

HONORARY MEMBERS

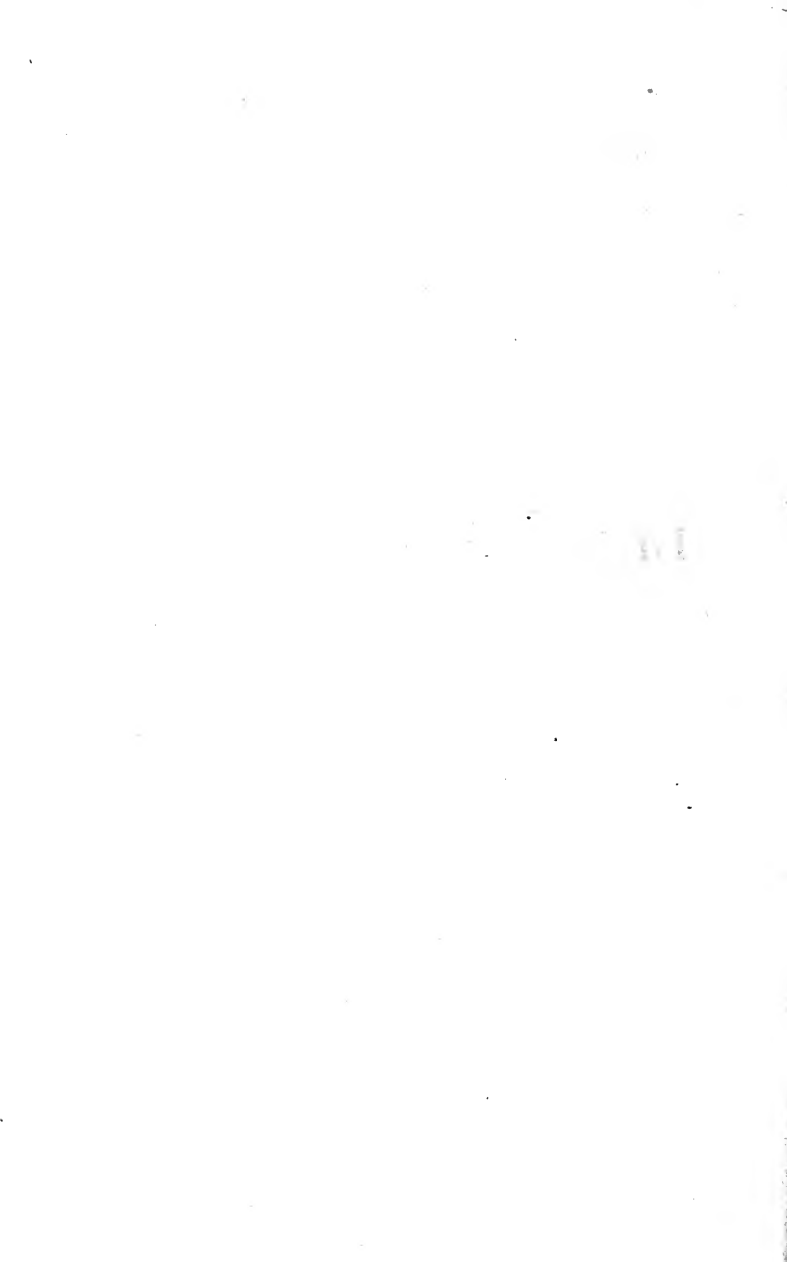
(In order of dates of election)

Gustave Eiffel	1889	John A. Brashear	1908
Henri Léauté	1891	John A. F. Aspinall	1911
Wm. Cawthorne Unwin	1898	Anatole Mallet	1912
Sir Douglas Fox	1900	Oskar von Miller	1912
John E. Sweet	1904	Capt. Charles H. Manning	1913
Thomas Alva Edison	1904	Alfred Fernandez Yarrow	1914
Andrew Carnegie	1907	Erasmus D. Leavitt	1915

THE AMERICAN SOCIETY OF
MECHANICAL ENGINEERS

LIST OF MEMBERS

ARRANGED ALPHABETICALLY
ALL GRADES



ALPHABETICAL LIST OF MEMBERS ALL GRADES

- ABBE, Roy H. (Junior, 1915) M. E., Towle Mfg. Co., and *for mail* 10 Arlington St., Newburyport, Mass.
- ABBOTT, Charles C. (1905), M. E., 240 Second St., Pittsfield, Mass.
- ABBOTT, Edward R. (Associate-Member, 1914), N. Y. Rep., The Taft-Peirce Mfg. Co., 233 Broadway, New York, N. Y.
- ABBOTT, Frederick B. (1904), 419 Ninth St., Brooklyn, N. Y.
- ABBOTT, Henry W. (Junior, 1913), Supt., The Aines Plow Co., and *for mail* 11 Union Ave., South Framingham, Mass.
- ABBOTT, William L. (1891), Manager, 1907-1910; Ch. Operating Engr., Commonwealth Edison Co., 120 W. Adams St., and *for mail*, 4616 Beacon St., Chicago, Ill.
- ABEL, John (Associate, 1914), Treas., Factory Mgr., Mersereau Metal Bed Co., 278 Johnston Ave., and *for mail*, 75 Fairview Ave., Jersey City, N. J.
- ABELL, Harry C. (1900; 1902), M. E., care of Emerson McMillin & Co., 40 Wall St., New York, N. Y.
- ABERCROMBIE, James H. (1901), care of The Farmers Loan & Trust Co., 15 Cockspur St., S. W., London, England.
- ABORN, George P. (1889; 1892), Mgr., Blake & Knowles Steam Pump Wks., East Cambridge, and *for mail*, 50 Garrison Rd., Brookline, Mass.
- ABRAMS, Frank W. (Junior, 1915), Engr. Eagle Wks. Refinery, Stand. Oil Co., Claremont, Jersey City, N. J.
- ABRAMS, Herbert T. (1901), Mgr. Pump and Calyx Drill Depts., Ingersoll-Rand Co., 11 Broadway, New York, N. Y., and *for mail*, 160 Cleveland St., Orange, N. J.
- ACHESON, Albert R. (1913), Prof. M. E., Syracuse Univ., and *for mail*, 852 Ostrom Ave., Syracuse, N. Y.
- ACKER, Kemp G. (Junior, 1913), 468 E. State St., Sharon, Pa.
- ACKERMAN, Frank (Junior, 1912), Asst. to Wks. Mgr., Curtis & Co. Mfg. Co., St. Louis, and *for mail*, 818 Meramec Ave., Clayton, Mo.
- ACKERMAN, George E. (1913), Office Mgr., Gardner S. Williams, 1018 Corn Exch. Bank Bldg., Chicago, and 1025 Kenilworth Ave., S., Oak Park, Ill.
- ACKERMAN, J. Walter (1914), Ch. Engr., Supt., Auburn Water Wks., 7 Exchange St., and 26 Nelson St., Auburn, N. Y.
- ACKERMAN, William S. (1891; 1895; 1899), Cons. Engr., 505 Silk City Bank Bldg., Paterson, N. J.
- ACKLAND, H. Baldwin (Associate-Member, 1913), Engr., Westinghouse Church Kerr & Co., 37 Wall Street., New York, and 636 E. 21st St., Brooklyn, N. Y.
- ADAIR, Craig (Associate-Member, 1915), M. E., The Baldt Steel Co., New Castle, and 402 W. 20th St., Wilmington, Del.
- ADAM, William J. (1912), Supt., The Regina Co., and *for mail*, 235 W. Milton Ave., Rahway, N. J.
- ADAMS, Carroll E. (Junior, 1916), Draftsman, Jenks & Ballou, 735 Grosvenor Bldg., Providence, and *for mail*, 228 Broadway, Pawtucket, R. I.
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- ASTROM, John (1900; 1903), M. E., 611 W. Wayne St., Fort Wayne, Ind.
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- ATKINSON, Albert W. (1914), Asst. Treas., Victor Talking Mch. Co., Camden, and 109 E. Maple Ave., Merchantville, N. J.
- ATKINSON, Herbert S. (1915), Production and Designing Engr. Clam Shell Bucket Dept., The Hayward Co., 50 Church St., New York, N. Y., and 204 N. Walnut St., East Orange, N. J.
- ATTERBURY, Wm. W. (1894), V. P., Charge of Operation, Pa. R. R. Co., Broad St. Sta., Philadelphia, and Radnor, Pa.

- ATWATER, Harry A. (Junior, 1914), M. E., Union Stock Yard & Transit Co. of Chicago, Chicago, and *for mail*, 11,130 Armida Ave., Morgan Park, Ill.
- ATWOOD, Geo. D. (Junior, 1903), Pres., Decorated Metal Mfg. Co., Pres., A-Z Co., 95 Liberty St., New York, and 514 E. 16th St., Brooklyn, N. Y.
- ATWOOD, William S. (1908), Ch. Engr., Canadian Car & Fdy. Co., Ltd., Canadian Steel Foundries, Ltd., Transportation Bldg., and *for mail*, 225 Metcalf Ave., Montreal, Que., Canada.
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- AUEL, Carl B. (1914), Dir. of Stand., Processes and Materials, Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.
- AULL, Jerome J. (1906; 1913; 1914), M. E., The Lunkenheimer Co., and 837 Academy Ave., Cincinnati, O.
- AUSTIN, Adolph O. (1905; 1914), M. E., Manhattan Refrig. Co., 565 West St., New York, and *for mail*, 46 Treno St., New Rochelle, N. Y.
- AUSTIN, Richard S. (Junior, 1916), Constr. Engr., Cott-a-lap Co., Bound Brook, and *for mail*, Somerville, N. J.
- AUSTIN, William A. (1913), Ch. Engr., Lima Loco. Corp., S. Main St., and *for mail*, Lima Club, Lima, O.
- AUSTIN, William F. (1905), 6 McCrossen Ave., Albany, N. Y.
- AUSTIN, William S. (1902; 1906), Ch. Engr. Hofman Plant, T. H. Symington Co., and *for mail*, 12 Ridge Rd., E., Rochester, N. Y.
- AUSTROM, Charles A. (1912), Asst. Ch. Engr., The Travelers Ins. Co. and The Travelers Indemnity Co., Hartford, Conn.
- AUTEN, James F. (Associate-Member, 1915), Supt. Bldgs. and Equip., Cadillac Motor Car Co., and *for mail*, 201 Philadelphia Ave., E., Detroit, Mich.
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- AVERY, A. Ordell (Associate-Member, 1915), Head of Section Layout Dept., West. Elec. Co., Hawthorne Sta., and *for mail*, 157 N. Lockwood Ave., Chicago, Ill.
- AVERY, Harold T. (Associate-Member, 1914), Ch. Draftsman, Ames Iron Wks., Oswego, and *for mail*, P. O. Box 284, Syracuse, N. Y.
- AVNSOE, Thorkild (Junior, 1913), Supt., Tex. Portland Cement Co., Cement, Tex.
- AVRAM, Mois H. (1913), Ch. Engr., Slocum, Avram & Slocum, Inc., 30 Church St., New York, N. Y.
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- AYER, Luther S. (1914), Supt., Internatl. Motor Co., and *for mail*, 816 Monroe Ave., Plainfield, N. J.
- AYERS, Hobart B. (1903), Genl. Mgr., H. K. Porter Co., Pittsburgh, and *for mail*, 7128 Meade St., Homewood, Pittsburgh, Pa.
- AYERS, Norwood B. (1908) M. E., Champion Coated Paper Co., and 620 Main St., Hamilton, O.
- AYLSWORTH, Joseph W. (Junior, 1907), Asst. Engr., Westinghouse Church Kerr & Co., 37 Wall St., New York, and 141 St. Marks Pl., St. George, S. I., N. Y.
- AYRES, Richard S. (Junior, 1913), Industrial Engr., Rice & Hutchins, Inc., 14 High St., Boston, and 10 Wellman St., Brookline, Mass.
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- BABBITT, Arthur B. (1913), Head of Dept. of Drawing and Design, Wentworth Inst., Boston, and *for mail*, 29 Bartlett Crescent, Brookline, Mass.
- BABBITT, Edward F. (1909), Engr. with F. L. Packard, and *for mail*, 406 S. Ohio Ave., Columbus, O.
- BABCOCK, Sylvester (Associate-Member, 1913), Genl. Foreman Power Plant, Westinghouse Elec. & Mfg. Co., East Pittsburgh, and *for mail*, 1536 Penn Ave., Wilkensburg, Pa.
- BACHARACH, Herman (1913), M. E., Rm. 1009, 14 Wood St., and 752 Sheridan Ave., Pittsburgh, Pa.
- BACHELDER, Joseph E. (Junior, 1905), Fairbanks, Morse & Co., 30 Church St., New York, N. Y.
- BACHE-WIIG, Olaf (1915), Genl. Supt., Wausau Sulphate Fibre Co., Mosinee, Wis.
- BACHMAN, Benjamin B. (Associate-Member, 1914), Engr., The Autocar Co., Ardmore, and 2302 N. Lambert St., Philadelphia, Pa.
- BACHMAN, Robert A. (1911), V. P., Genl. Mgr., Edison Storage Battery Co., Orange, and 100 Watson Ave., West Orange, N. J.
- BACKER, Elmer F. (Associate-Member, 1914), Charge New Designs and Exper. Work, Davenport Loco. Wks., Davenport, Ia.
- BACKLIN, Axel F. (1902), Constr. Engr., Am. Steel & Wire Co., Frick Bldg., Pittsburgh, Pa.
- BACON, Charles J. (1905; 1907), Steam Engr., Ill. Steel Co., South Chicago, and 7334 Crandon Ave., Chicago, Ill.
- BACON, Earle C. (1885; 1886), Contr. and Cons. Engr., Havemeyer Bldg., New York, and 81 Hillcrest Ave., Park Hill, Yonkers, N. Y.
- BACON, Frederick T. H. (1908), Cons. Engr., Ewing, Bacon & Henry, 101 Park Ave., and 344 W. 72d St., New York, N. Y.
- BACON, George W. (1898; 1899), M. E., Ford, Bacon & Davis, 115 Broadway, and 23 W. 67th St., New York, N. Y.
- BACON, John L. (1899; 1909), Rm. 5, City Hall, San Diego, Cal.
- BADOWSKI, Alfred (Junior, 1915), Estimator, Pressed Steel Car Co., Pittsburgh, and *for mail*, 97 Ohio St., McKees Rocks, Pa.
- BAEHR, William A. (1903), Cons. Engr., Peoples Gas Bldg., Chicago, Ill.
- BAGG, Samuel F. (1896), Dist. Agt., The Fidelity & Casualty Co., Burdett Bldg., and 96 Fourth St., Troy, N. Y.
- BAGGALEY, Ralph (Associate, 1891), Life Associate; Pres., Am. Pyritic-Conversion Co., 1291 Shady Ave., E. E., Pittsburgh, Pa.
- BAILEY, Alex. D. (Junior, 1910), Asst. Ch. Engr., Stas. 2 and 3, Commonwealth Edison Co., Chicago, and *for mail*, 21 Elmwood Ave., La Grange, Ill.
- BAILEY, Elton D. (1912), Supt. Power and Equip., Northwestern States Portland Cement Co., and *for mail*, 120 Tenth St., Mason City, Ia.
- BAILEY, Ervin G. (1903; 1912), Pres., Bailey Meter Co., 141 Milk St., Boston, and 1057 Walnut St., Newton Highlands, Mass.
- BAILEY, Frederic W. (Junior, 1901), Buffalo Forge Co., and *for mail*, 222 Loring Ave., Buffalo, N. Y.
- BAILEY, Harry E. B. (1912), Engr. of Wks., Am. Optical Co., and *for mail*, 54 Chapin St., Southbridge, Mass.
- BAILEY, Hazil H. (Junior, 1910), Constr. Engr., E. W. Clark & Co. Management Corp., 910 Wyandotte Bldg., Columbus, O., and *for mail*, care of Nashville Ry. & Light Co., Nashville, Tenn.
- BAILEY, H. Morell (Junior, 1909), Safety Engr., Carnegie Steel Co., Duquesne, Pa.
- BAILEY, Ledyard M. (1914), Genl. Mgr., Portland Cement Co. of Utah, Box 1419, Salt Lake City, Utah.

- BAILEY, T. S. (1896; 1905), Elec. Boat Co., Groton, Conn.
- BAILEY, William J. (Junior, 1910), M. E., United Coal Co., Pa. Bldg., Philadelphia, and *for mail*, 514 Essex Ave., Narberth, Pa.
- BAILLIERE, Marion V. (Junior, 1913), Asst. Engr., Lake Shore & Mich. So. Ry. Co., Cleveland, and *for mail*, 151 W. Main St., Norwalk, O.
- BAIRD, James T., Jr. (Junior, 1914), 56 Ellsworth Ave., New Haven, Conn.
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- BAKER, Charles H. (1903; 1915), M. E., Pub. Serv. Elec. Co., Broad and Bank Sts., Newark, and 8 Watson Ave., East Orange, N. J.
- BAKER, Charles Whiting (1893), Vice-President, 1909-1911; Editor-in-Chief, Engrg. News, 10th Ave. and 36th St., New York, N. Y., and *for mail*, 20 S. Mountain Ave., Montclair, N. J.
- BAKER, Dickerson G. (1905), 32 W. 40th St., New York, N. Y.
- BAKER, Erich F. (Junior, 1912), Commer. Engr., The Wickes Boiler Co., 90 West St., New York, N. Y.
- BAKER, Frank D. (1893), Ch. Engr. Colo. Dept., Am. Smelting & Refining Co., 830 First Natl. Bank Bldg., and *for mail*, 3221 Franklin St., Denver, Colo.
- BAKER, John C. W. (1904), M. M., Rubber Regenerating Co., and *for mail*, 153 Millville Ave., Naugatuck, Conn.
- BAKER, Norman L. (1916), M. E., Charge Power Generation and Distribution, By-Products Coke Corp., 112th St. and Torrence Ave., and 1439 E. 67th Pl., Chicago, Ill.
- BAKER, Orth K. (1913), Ch. Draftsman Cayuga Constr. office, The J. G. White Engrg. Corp., Portland Point, and *for mail*, 112 W. Marshall St., Ithaca, N. Y.
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- BALDWIN, Abram T. (1899; 1902), Life Member; Pres., Genl. Mgr., Precision Instrument Co., 102 Randolph St., and *for mail*, 171 McDougall Ave., Detroit, Mich.
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- BALDWIN, C. Kemble (1905), West. Mgr., Robins Conveying Belt Co., 1070 Old Colony Bldg., and 5438 Harper Ave., Chicago, Ill.
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- BALDWIN, Oscar H. (1889), Dist. Mgr., British Westinghouse Elec. & Mfg. Co., Ltd., London, England.
- BALDWIN, Wm. J. (1882), Cons. Engr., 501 World Bldg., New York, and 151 Halsey St., Brooklyn, N. Y.
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- BALL, Bert C. (1898; 1904), V. P., Genl. Mgr., Willamette Iron & Steel Wks., and 482 Harrison St., Portland, Ore.
- BALL, Frank H. (1883), Manager, 1888-1891; Vice-President, 1894-1896; Genl. Mgr. Carburetor Dept., Penberthy Injector Co., and 581 Woodward Ave., Detroit, Mich.
- BALL, Frederick O. (1901; 1907), Mgr. Carburetor Dept., Penberthy Injector Co., and *for mail*, 115 Selden Ave., Detroit, Mich.

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- BALLIN, Alfred E. (Associate, 1906), Genl. Mgr., McIntosh & Seymour Corp., and 100 South St., Auburn, N. Y.
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- BALLOU, F. H. (Associate-Member, 1915), Traveling Engr., Great West Sugar Co., and *for mail*, 1130 S. Gilpin St., Denver, Colo.
- BALLOU, J. Ladd (Junior, 1915), Geo. G. Nelson, Engr., 23 Sherwin Bldg., Elgin, and *for mail*, 215 Cross St., Wheaton, Ill.
- BALLOU, John McK. (Junior, 1916), Draftsman, The Babcock & Wilcox Co., and *for mail*, 26 E. 3d St., Bayonne, N. J.
- BALOUGH, Charles (1915), Pres., The Hercules Motor Mfg. Co., Canton, and 2118 E. High St., Springfield, O.
- BALTZELL, Will H. (1910), Cons. Engr., 13th and Aetna Sts., and *for mail*, 519 Aiken Ave., Pittsburgh, Pa.
- BALZ, George A. (Junior, 1912), Mgr., Treas., Secy., Didier-March Co., P. O. Box 327, Perth Amboy, and Clinton Pl., P. O. Box 541, Metuchen, N. J.
- BALZER, Fritz (1911; 1913), M. E., Charge Drafting Dept., Troy Laundry Mchy. Co., Ltd., La Salle and 23d Sts., and *for mail*, 1628 W. 101st St., Chicago, Ill.
- BAMFORD, Charles J. (Associate-Member, 1915), Ch. Engr., Agasote Mill-board Co., and *for mail*, 338 Rutherford Ave., Trenton, N. J.
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- BANCROFT, Charles F. (1911), V. P., Manchester Elec. Co., E. E., Mass. Elec. Cos., Supt. M. P. and Mchy., Bay State St. Ry. Co., 84 State St., and 159 Bay State Rd., Boston, Mass.
- BANCROFT, George A. (Junior, 1910), Designer, Aultman & Taylor Mchy. Co., Diamond St., and *for mail*, 26 Poplar St., Mansfield, O.
- BANCROFT, J. Sellers (1880), Manager, 1909-1911; Vice-President, 1915-1917; Genl. Mgr., M. E., Lanston Monotype Mch. Co., 24th and Locust Sts., and *for mail*, 917 Pine St., Philadelphia, Pa.
- BANCROFT, Joseph (1914), Treas., Joseph Bancroft & Sons Co., Wilmington, Del.
- BANCROFT, Wilfred (1912), Sales Mgr., Lanston Monotype Mch. Co., 24th and Locust Sts., Philadelphia, Pa.
- BANFIELD, Frederic E., Jr. (Junior, 1909), Asst. Supt., Saco-Lowell Shops, Newton Upper Falls, and *for mail*, 84 Hancock Ave., Newton Centre, Mass.
- BANFIELD, Stanley M. (Junior, 1914), 6 Hackfeld Rd., Worcester, Mass.
- BANKS, Thomas D. (Junior, 1910), Supt. Div. Garbage and Refuse Disposal, City of Columbus, City Hall, and *for mail*, 89 N. 20th St., Columbus, O.
- BANKWITZ, Frederick E. (1914), Asst. Managing Engr., Fletcher-Thompson, Inc., 1089 Broad St., Bridgeport, Conn.
- BANNISTER, John C. (1902), Mgr., Natl. Tube Co., and 519 S. Tremont St., Kewanee, Ill.

- BANNON, Leo M. (Junior, 1908), 121 Oakland St., Mansfield, Mass.
- BANTA, John S. (1912), Ch. Draftsman, Am. Steel & Wire Co., Waukegan, Ill.
- BAQUET, Camille, Jr. (1911), M. E., Watts-Campbell Co., Newark, and *for mail*, Spotswood, N. J.
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- BARBOUR, George H. (1912), Asst. Ch. M. E., Carnegie Steel Co., Carnegie Bldg., and 6043 Stanton Ave., Pittsburgh, Pa.
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- BARKLEY, Matthew B. (Junior, 1901), V. P., Cameron & Barkley Co., Genl. Asbestos & Rubber Co., 160 Meeting St., and 137 Rutledge Ave., Charleston, S. C.
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- BARNES, Walter E. (1915), V. P., East. Mgr., Consltd. Engrg. Co., Rm. 42, 247 Atlantic Ave., Boston, and 3 Woodlawn Ave., Wellesley Hills, Mass.
- BARNES, William O. (1908), M. E., Iver-Johnson Arms & Cycle Wks., Fitchburg, and *for mail*, 770 Main St., Leominster, Mass.
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- BARNUM, C. Leslie (Associate-Member, 1914), M. E., J. B. King & Co., and *for mail*, 67 Clinton Ave., New Brighton, S. I., N. Y.
- BARNUM, Geo. S. (1887), V. P., Bigelow Co., and 237 E. Rock Rd., New Haven, Conn.
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- BARNUM, Theodore P. (Associate, 1915), Secy., Barnum Bros. Co., 179 River St., Troy, N. Y.
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- BARON, Leopold (Junior, 1913), V. P., Genl. Mgr., Carbolite Chem. Co., Genl. Mgr. Coal Tar Product Dept., Tenn. Copper Co., Rm. 1520, 120 Broadway, New York, N. Y., and *for mail*, 135 Johnson Ave., Newark, N. J.
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- BARR, James W. (Junior, 1913), Cincinnati Milling Mch. Co., Oakley, Cincinnati, and 3469 S. Side Ave., Riverside, Cincinnati, O.
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- BARR, Kester (Junior, 1915), Salesman, Rep., Lumen Bearing Co., 809 Majestic Bldg., and 865 Second Ave., Detroit, Mich.
- BARR, William H. (Associate, 1911), Genl. Mgr., Lumen Bearing Co., and 1155 Sycamore St., Buffalo, N. Y.
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- BARRATT, Edgar G. (1888), Pres., Union Bag & Paper Co., 17 Battery Pl., New York, N. Y., and *for mail*, 133 Harrison St., East Orange, N. J.
- BARRE, Herbert A. (1912), M. and E. E., Pac. Light & Power Corp., 655 Pac. Elec. Bldg., and 5327 Sixth Ave., Los Angeles, Cal.
- BARRETT, Dwight O. (Junior, 1912), Ch. Engr., Power Mfg. Co., and *for mail*, 528 S. West St., Lima, O.
- BARRETT, John H. (1913), Genl. Mgr., Stand. Steel Tank & Mfg. Co., 2336 Henry W. Oliver Bldg., Pittsburgh, Pa., and *for mail*, Girard, O.
- BARRETT, Walter A. (Junior, 1906), Sales Engr., The Bass Fdy. & Mch. Co., and *for mail*, 905 Wildwood Ave., Fort Wayne, Ind.
- BARRETT, William F. (1915), Cons. Engr., 42d St. Bldg., New York, N. Y., and Peoples Gas Bldg., Chicago, Ill.
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- BARTLETT, George M. (1911), M. E., Diamond Chain & Mfg. Co., and *for mail*, 2609 N. Delaware St., Indianapolis, Ind.
- BARTLETT, Henry (1897), Genl. Mech. Supt., Boston & Me. R. R., N. Sta., Boston, and *for mail*, 51 Highland St., Cambridge, Mass.
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- BASFORD, Geo. M. (1889; 1891), Manager, 1906-1909; Ch. Engr. Railroad Dept., Joseph T. Ryerson & Son, 30 Church St., New York, and 134 Primrose Ave., Mt. Vernon, N. Y.
- BASINGER, James G. (1907), C. E., 52 Broadway, New York, N. Y.
- BASKERVILL, George B., Jr. (1912), Baskervill & Co., Title Guarantee Bldg., and 1616 Ave. J, Birmingham, Ala.
- BASS, Willard J. (1914; 1916), Engr., U. S. Yards, Armour & Co., and *for mail*, 6058 Stony Island Ave., Chicago, Ill.
- BASSETT, Cyrus W. (Junior, 1915), Engr., Elev. Supply & Repair Co., 111 S. Jefferson St., Chicago, Ill.
- BASSETT, George B. (1914), Pres., Genl. Mgr., Buffalo Meter Co., 290 Terrace, and *for mail*, 691 W. Ferry St., Buffalo, N. Y.
- BASSETT, Royal M. (Associate-Member, 1914), Dist. Mgr., Murphy Iron Wks., 202 Stephen Girard Bldg., and 6311 Callowhill St., Philadelphia, Pa.
- BASTABLE, William M. (1915), Mgr. Pump Dept., Fairbanks Morse & Co., 30 Church St., New York, N. Y., and Westfield, N. J.
- BATCHELDER, Asa F. (1903), Engr. Ry. Loco. Dept., Genl. Elec. Co., and R. F. D. 2, Schenectady, N. Y.
- BATEMAN, Edward L. (Associate, 1897), Mgr. for S. A. Allis-Chalmers Co., P. O. Box 6659, Johannesburg, Transvaal, S. A.
- BATEMAN, George W. (1909; 1914), Genl. Purchasing Agt., Sullivan Mchy. Co., and *for mail*, 108 Pleasant St., Claremont, N. H.
- BATES, Adelmer M. (1912), Pres., Bates Valve Bag Co., Rm. 1463, 332 S. Michigan Ave., and 1417 Hyde Park Blvd., Chicago, Ill.

- BATES, Albert Harlan (1890; 1912), Pat. Lawyer, 1028 Society for Savings Bldg., and 2945 Hampshire Rd., Cleveland, O.
- BATES, Albert Henry (1907; 1913), M. E., Stacy-Bates Co., 815-819 McKnight Bldg., and *for mail*, 2819 W. 42d St., Minneapolis, Minn.
- BATES, Charles J., Jr. (1913), Highwood, N. J.
- BATES, Daniel M. (1912), Agt., Lewiston, Bleachery & Dye Wks., and cor. Pine and Webster Sts., Lewiston, Me.
- BATES, Edward C. (1899), 122 Marlboro St., Boston, Mass.
- BATES, Edward P. (1891), Life Member; Prin., 228 W. Water St., Syracuse, N. Y.
- BATES, Francis E. (Associate, 1913), Dept. Mgr., The Am. Thread Co., 260 W. Broadway, New York, N. Y.
- BATES, George H. (1914), Secy., Treas., S. I. Shipbuilding Co., Port Richmond, S. I., N. Y., and *for mail*, 18 Hampton St., Cranford, N. J.
- BATES, James H. S. (1914), Cons. Engr., 79 Wall St., New York, N. Y., and *for mail*, P. O. Box 118, Hoboken, N. J.
- BATHGATE, Owen H. (1912), Wks. Steam Engr., Westinghouse Elec. & Mfg. Co., East Pittsburgh, and 1213 Center St., Wilkinsburg, Pa.
- BATT, William L. (Junior, 1911), Sales Engr., 1475 W. Clifton Blvd., Cleveland, O.
- BATTEN, Percy H. (1901; 1910), Wks. Mgr., Wallis Tractor Co., Racine, Wis.
- BAUDERMANN, Joseph A. G. (Junior, 1913), Pub. Serv. Ry. Co., Broad St., Newark, N. J.
- BAUER, Chas. L. (1900; 1901), Pres., The Bauer Bros. Co., and 1215 E. High St., Springfield, O.
- BAUER, Thomas (1912), Pres., Genl. Mgr., Lafayette Box Board & Paper Co., Lafayette, Ind.
- BAUHAN, Alexander E. (Junior, 1914), Sta. Supt., Pa. Water & Power Co., Holtwood, Pa.
- BAUM, Frank G. (1906), Cons. Engr., 1901-1902 Hobart Bldg., San Francisco, Cal.
- BAUM, Robert S. (Junior, 1912), Mgr., Union Gas Eng. Co., 126 N. Los Angeles St., and *for mail*, 1749 Cherokee Ave., Los Angeles, Cal.
- BAUMES, Palmer B. (Associate, 1916), Dist. Mgr., Ball Eng. Co., 1984 Ry. Exch. Bldg., St. Louis, Mo.
- BAUMGARTNER, Charles G. (1913), Designing Engr. M. E. Dept., Am. Bridge Co., Rm. 1323, 208 S. La Salle St., Chicago, and *for mail*, 305 N. Ashland Ave., River Forest, Ill.
- BAUSCH, Carl L. (1911; Associate-Member, 1913), Asst. Mech. Supt., Bausch & Lomb Optical Co., 635 St. Paul St., and 40 Ericsson St., Rochester, N. Y.
- BAUSCH, Frederick E. (1904), Mgr., The Hooven Owens Rentschler Co., 1216-1217 Chemical Bldg., and 6133 Berlin Ave., St. Louis, Mo.
- BAUSH, William H. (1904), Sales Mgr., Natl. Equip. Co., and 64 Magnolia Terrace, Springfield, Mass.
- BAVIER, Charles S. (Associate, 1907), Ch. Engr., Metro. Life Ins. Co. Bldg., 1 Madison Ave., New York, N. Y.
- BAXTER, Burke M. (1908; 1914), M. E. with H. B. Prather, 662 Rockefeller Bldg., and The Randall, 8808 Carnegie Ave., Cleveland, O.
- BAXTER, Henry N. (Junior, 1914), Designing Engr., Lyons Atlas Co., and *for mail*, 405 E. 22d St., Indianapolis, Ind.
- BAYARD, Robert A. (1914), Asst. to Supt. of Abrasive Plants, Norton Co., Chippawa, Ont., Canada, and *for mail*, 170 Buffalo Ave., Niagara Falls, N. Y.

- BAYER, Lloyd F. (Junior, 1915), Cadet Engr., N. Y. & Queens Elec. Light & Power Co., 444 Jackson Ave., Long Island City, and *for mail*, 357 S. 4th Ave., Mt. Vernon, N. Y.
- BAYFIELD, Henry A. (1913), Prin. Asst. Engr., Dept. Rys. and Canals, Terminus Hudson Bay Ry., Ottawa, Ont., Canada.
- BAYLE, Emile J. (1907), Production Mgr., The Aluminum Castings Co., Chene and Finley Sts., and 2988 E. Grand Blvd., Detroit, Mich.
- BAYLEY, Guy L. (1911), Ch. M. and E. E., Panama-Pacific Internatl. Exposition Co., Service Bldg., San Francisco, Cal.
- BAYLEY, W. (1904), Pres., Ch. Engr., The Wm. Bayley Co., and *for mail*, 521 S. Fountain Ave., Springfield, O.
- BAYLIS, Arthur R. (1905; 1906), Ch. Draftsman for H. G. Stott, I. R. T. Co., 59th St. and 11th Ave., New York, and *for mail*, 350 Ocean Ave., Brooklyn, N. Y.
- BAYLIS, Robt. N. (1892), Pres., Engr., The Baylis Co., Bloomfield, N. J.
- BAYNE, George H. (1911), M. E., Pa. Coal & Coke Corp., 17 Battery Pl., and 561 W. 141st St., New York, N. Y.
- BEACH, Charles S. (Junior, 1885), Designer, Machinist, 745 Main St., Bennington, Vt.
- BEACH, Harold K. (Junior, 1904), Lockwood, Greene & Co., 101 Park Ave., New York, N. Y.
- BEADENKOPF, George (1912), Ch. Engr. Gas. Div., Consld. Gas. Elec. Light & Power Co., Lexington and Liberty Sts., and 2604 Roslyn Ave., Baltimore, Md.
- BEAGHEN, Thomas, Jr. (1916), Master Car Builder, Union Tank Line Co., 26 Broadway, New York, and *for mail*, 426 S. 6th Ave., Mt. Vernon, N. Y.
- BEAKEY, Patrick J. (Associate-Member, 1915), Foreman Type Dept., Royal Typewriter Co., Inc., 150 New Park Ave., and *for mail*, 37 Hamilton St., Hartford, Conn.
- BEALE, Horace A., Jr. (1915), Pres., Parkeshurg Iron Co., Parkeshurg, Pa.
- BEALL, Frank F. (Junior, 1902), Factory Mgr., Packard Motor Car Co., and 59 Hendrie Ave., Detroit, Mich.
- BEAMAN, Elmer A. (1891), Beaman & Smith Co., Gordon and Reynolds Ave., and *for mail*, 237 Washington Ave., Providence, R. I.
- BEAMAN, P. Alden (Associate-Member, 1915), M. E., Manufacturers Equip. Co., 100 Summer St., Boston, and 33 Winslow Ave., Norwood, Mass.
- BEAN, Clarence H. (1915), Asst. Supt. M. P., Armour & Co., and *for mail*, 5316 Kimbark Ave., Chicago, Ill.
- BEAN, Irving McC. (1903; 1914), Pres., Milwaukee Boiler Co., 1136 Wells Bldg., and 665 Astor St., Milwaukee, Wis.
- BEAN, William L. (1912), M. E., Oxweld R. R. Serv. Co., 239 Ry. Exch. Bldg., Chicago, Ill.
- BEAR, Oliver L. (1913), Sales Engr., Mgr., Benj. F. Kelley & Son, Inc., of New York, N. Y., Ry. Exch. Bldg., and 1354 Kenilworth Ave., Chicago, Ill.
- BEARDSLEY, Arthur (1883), Life Member; Emeritus Prof. Engrg., Swarthmore College, Swarthmore, Del. Co., Pa.
- BEATIE, Cecil E. (Junior, 1912), Engr., Simplex Refining Co., 343 Sansome St., and 1849 Jackson St., San Francisco, Cal.
- BEAUBIEN, James A. (1915), M. E., 30 Church St., New York, N. Y., and 360 Ogden Ave., Jersey City, N. J.
- BEAVER, Charles W. (1914), Mgr. Hoist Dept., The Yale & Towne Mfg. Co., 9 E. 40th St., New York, N. Y.
- BEBB, J. C. (Associate, 1913), Otis Elev. Co., 11th Ave. and 26th St., New York, N. Y., and 516 Hillside Terrace, South Orange, N. J.

- BECHERT, Fred J. (Junior, 1914), Asst. Examiner, U. S. Pat. Office, Washington, D. C.
- BECHTEL, August L. (Junior, 1911), M. E., The Cleveland Punch & Shear Wks. Co., 3927 St. Clair Ave., N. E., and 1455 E. 116th St., N. E., Cleveland, O.
- BECHTEL, John A. (Associate, 1900), Williamsburg, Va.
- BECK, Charles E. (Junior, 1911), Sales Mgr., De La Vergne Mch. Co., 417 S. Dearborn St., and *for mail*, 1043 Winona Ave., Chicago, Ill.
- BECK, James D. (1906), M. E., 2331 Constance St., New Orleans, La.
- BECK, Matthias A. (1886), 294 Greenbush St., Milwaukee, Wis.
- BECKER, Adolf J. (Associate, 1914), V. P., Becker Steel Co. of Am., 90 West St., New York, N. Y.
- BECKER, Albert J. (1912), Prof. Applied Math., Univ. of N. D., and *for mail*, 915 Belmont Ave., Grand Forks, N. D.
- BECKER, Luther (Associate, 1913), Genl. Rep., U. S. Steel Products Co., Batavia, Java, Dutch East India.
- BECKJORD, Walter C. (Associate-Member, 1913), E. E., St. Paul Gas Light Co., and *for mail*, 586 Portland Ave., St. Paul, Minn.
- BECKSTRAND, Elias H. (1908), Prof. M. E., Univ. of Utah, Salt Lake City, Utah.
- BECKWITH, Henry C. (1913), Treas., Genl. Mgr., Byers Mch. Co., Ravenna, O.
- BEDFORD, Russell B. (1914), Mgr. East. Branch and Export Dept., Clarage Fan Co., 149 Broadway, New York, N. Y., and *for mail*, 307 N. Fullerton Ave., Montclair, N. J.
- BEEBE, Lawrence L. (1915), Asst. M. E. U. S. Dept. of Agri., Office of Pub. Rds. and Rural Engrg., and 1440 Meridian Pl., N. W., Washington, D. C.
- BEECHER, Henry W. (1908; 1915), Seattle Mgr., Chas. C. Moore & Co. Engrs., Inc., 618 Mutual Life Bldg., and The Hillcrest, 17th and E. Howell Sts., Seattle, Wash.
- BEEKMAN, John V. (1889), Genl. Supt., Lidgerwood Mfg. Co., 96 Liberty St., New York, N. Y., and 216 W. 8th St., Plainfield, N. J.
- BEENER, Franklin (1914), M. E., 53d St. and 1st Ave., Brooklyn, N. Y., and 557 Kohn St., Norristown, Pa.
- BEERBAUM, Arthur J. (Junior, 1914), Plant Engrg. Dept., West. Elec. Co., Hawthorne Sta., and *for mail*, 3353 Lincoln Ave., Chicago, Ill.
- BEERS, Royce L. (Associate-Member, 1914), Asst. Fuel Engr., U. S. Bureau of Mines, 40th and Butler Sts., Pittsburgh, and *for mail*, 326 Mifflin Ave., Wilkesburg, Pa.
- BEESON, Alphonzo C. (Associate, 1914), V. P., Genl. Mgr., Ind. Pipe Line Co., Bippus Bldg., Huntington, Ind.
- BEHN, Carl (1903), Buffalo Refrig. Mch. Co., 126 Liberty St., New York, N. Y., and 24 Nassau Pl., East Orange, N. J.
- BEHNEY, Charles C. (Associate-Member, 1914), M. E., Simplex Valve & Meter Co., 208 Chancellor St., Philadelphia, and *for mail*, 90 N. Lansdowne Ave., Lansdowne, Pa.
- BEHR, Francis J. (1914), Capt. Coast Artillery Corps, U. S. A., Fort Monroe, Va.
- BEHR, Hans C. (1891), Cons. Engr., Rm. 1320, 233 Broadway, New York, and 14 Lynwood Rd., Scarsdale, N. Y.
- BEHREND, Bernard A. (1909), Cons. Engr., Rm. 434, 200 Devonshire St., Boston, and Brookline, Mass.
- BEHREND, Ernst R. (1900), Pres., Genl. Mgr., Hammermill Paper Co., Erie, Pa.
- BELCHER, Thomas H. (1913), Mgr., Carthage Mch. Co., Carthage, N. Y.

- BELCHER, Warren J. (1914), Supt., Whitney Mfg. Co., and *for mail*, 94 Evergreen Ave., Hartford, Conn.
- BELL, Andrew L. (Associate-Member, 1913), M. E. Mech. Div., The Panama Canal, Balboa, Canal Zone.
- BELL, David (1912), Engr., Buffalo Fdy. & Mch. Co., and *for mail*, 911 Lafayette Ave., Buffalo, N. Y.
- BELL, Edgar D. (1915), Genl. Supt., St. Louis Elec. Term. Ry. Co., St. Louis Elec. Bridge Co., Madison Co. Light & Power Co., 3725 N. Broadway, St. Louis, Mo.
- BELL, James A. (1914), M. M., Ill. Steel Co., and *for mail*, 323 Hunter Ave., Joliet, Ill.
- BELL, Jesse M. (1914), M. E., 105 Cottage St., Lockport, N. Y.
- BELL, Joseph M. (1899), M. E., Reading Iron Co., and *for mail*, 140 N. 4th St., Reading, Pa.
- BELL, Raymond T. (1913), 70 Kipling Ave., Detroit, Mich.
- BELL, William L. (1914), Pres., Fulton Eng. Wks., Box 296, and *for mail*, 1015 E. 27th St., Los Angeles, Cal.
- BELLAMY, Leon (1915), M. E., Dodge Sales & Engrg. Co., 21 Murray St., New York, N. Y., and *for mail*, 118 Ellwood Ave., Newark, N. J.
- BENCH, Alfred R. (Junior, 1907), The Taylor-Wharton Iron & Steel Co., High Bridge, N. J.
- BENDA, Harry R. (Associate-Member, 1914), M. E., D. Auerbach & Sons, 623-644 11th Ave., New York, N. Y., and *for mail*, 250 Clark Terrace, Cliffside Park, Bergen Co., N. J.
- BENDT, Ernest R. (Junior, 1914), Boiler Erector, Babcock & Wilcox Co., Marquette Bldg., Chicago, Ill., and 464 S. Congress St., Kenosha, Wis.
- BENEDICT, Bruce W. (1912), Dir. Shop Labs., Dept. M. E., Univ. of Ill., Urbana, Ill.
- BENEDICT, Howard G. (Associate, 1914), Cons. Engr., P. O. Box 831, Detroit, Mich.
- BENET, Laurence V. (1892), V. P., Société Anonyme des Anciens Etablissements Hotchkiss & Cie., 6, route de Gonesse, St. Denis, Seine, and *for mail*, 1, Ave. de Camoens, Paris, France.
- BENJAMIN, Charles H. (1892), Dean Schs. of Engrg., Purdue Univ., and 607 University St., Lafayette, Ind.
- BENJAMIN, Harrie L. (Junior, 1915), Draftsman, New Departure Mfg. Co., and *for mail*, 295 Main St., Bristol, Conn.
- BENNER, Henry L. (Junior, 1910), Pres., Genl. Mgr., Benner Mfg. Co., 224 S. 15th St., Philadelphia, Pa.
- BENNET, Orville G. (Junior, 1907), V. P., Genl. Motors Export Co., 11 Broadway, New York, N. Y.
- BENNETT, Arthur N. (1915), Supt. Mfg. Dept., Safety Car Htg. & Ltg. Co., 215 12th St., and *for mail*, 215 Fairview Ave., Jersey City, N. J.
- BENNETT, Chas. W. (1904), Asst. to Pres., Am. Sheet & Tin Plate Co., 1320 Frick Bldg., and 6300 Darlington Rd., Pittsburgh, Pa.
- BENNETT, Geo. G. (1903; 1913), Mill Supt., Ludlow Mfg. Associates, and *for mail*, P. O. Box 75, Ludlow, Mass.
- BENNETT, George L. (1905), Efficiency Engr., Bd. of Estimate, City of N. Y., 2500 Municipal Bldg., New York, N. Y.
- BENNETT, John W. F. (1913), Cons. Engr. for Bor. Pres. of Bronx, Municipal Bldg., 177th St. and 3d Ave., New York, and 221 77th St., Bay Ridge, Brooklyn, N. Y.
- BENNETT, Joseph A. (1907), N. E. Westinghouse Co., Springfield, Mass.
- BENNETT, R. M. (Junior, 1912), 335 High St., Pottstown, Pa.

- BENNETT, Robert G. (Associate-Member, 1914), Inspr. Test Dept., Pa. R. R., and *for mail*, 2428 W. Chestnut Ave., Altoona, Pa.
- BENNETT, Thomas A. (Junior, 1903), Sales Dept., The N. J. Zinc Co., 55 Wall St., New York, and *for mail*, 8506 12th Ave., Brooklyn, N. Y.
- BENNS, Charles P. (1898), Asst. Mgr., Underwriters Asso. of D. C., 1016 Woodward Bldg., and 3303 Highland Pl., Washington, D. C.
- BENSON, Harvey S. (Junior, 1915), Head of Production Dept., U. S. Cartridge Co., Lowell, and *for mail*, 97 Sargent St., Melrose Highlands, Mass.
- BENSON, Stuart W. (1913), Ch. Draftsman Tramway Dept., Am. Steel & Wire Co., and *for mail*, 33 Woodside Ave., Trenton, N. J.
- BENTLEY, Ernest W. (1904), Pittsburgh Mgr., Skinner Eng. Co., 507 Diamond Bank Bldg., Pittsburgh, and 388 Vermont Ave., Rochester, Pa.
- BENTLEY, Harry T. (1913), Supt. M. P. and Mch., Chicago & Northwestern Ry., Chicago, and *for mail*, 425 Clinton Ave., Oak Park, Ill.
- BENTLEY, O. D. H. (1910), Mgr. Turbine Dept., B. F. Sturtevant Co., Hyde Park, Mass.
- BENTON, Morris F. (Associate, 1903), M. E., 300 Communipaw Ave., Jersey City, and 107 Crescent Ave., Plainfield, N. J.
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- BERG, Ernst J. (1913), Prof. E. E., Union Univ., Schenectady, N. Y.
- BERG, Hart O. (1898; 1903); Engr., 32 Ave. des Champs-Elysees, Paris, France, and 7 Gracechurch St., London, E. C., England.
- BERG, John D. (1914), V. P., Dravo-Doyle Co., 1105 Diamond Bank Bldg., Pittsburgh, Pa.
- BERG, P. T. (1890), Am. Vice-Consul General, No. 63, Strandvagen, Stockholm, Sweden.
- BERGE, George H. (Associate, 1913), Treas., Genl. Mgr., New Process Hemp Mfg. Co., 839 Marquette Bldg., and 650 Grace St., Chicago, Ill.
- BERGER, Franz A. (1909), Asst. Prof. M. E., Washington Univ., St. Louis, Mo.
- BERGER, Joseph W. (1913), Dir., Ralph B. Carter Co., 152 Chambers St., New York, N. Y.
- BERGER, Julius G. (Associate-Member, 1914), Industrial Power Engr., 18 Carlton Ave., Jersey City, N. J.
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- BERGEY, John E. (1913), Leadingman Draftsman, Mchy. Div., Navy Yard Bldg. 26, and *for mail*, 119 S. 63d St., Philadelphia, Pa.
- BERGGREN, Axel E. (Associate-Member, 1915), M. E., Faultless Rubber Co., and *for mail*, 312 Center St., Ashland, O.
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- BERGQUIST, John G. (1912), Cons. Engr. for Universal Portland Cement Co., Brymptonwood, Glen Head, L. I., N. Y.
- BERLINER, Richard W. (1903; 1913), Hotel Carlton, Milwaukee, Wis.
- BERNARD, Harold B. (Junior, 1915), Sales Engr., The Foxboro Co., 50 Church St., and *for mail*, 457 W. 123d St., New York, N. Y.
- BERNARD, James L. (1902), M. E., Am. Bridge Co., Ambridge, and Beaver, Beaver Co., Pa.
- BERNHARD, John H. (Associate-Member, 1914), Transportation Engr., Inland Navigation Bureau, 244 W. 104th St., New York, N. Y.

- BERNHARD, Richard (Junior, 1901), Ch. Engr. Min., Crushing and Cement Mchy. Dept., Power & Min. Mchy. Co., Cudahy, and *for mail*, 162 Meredith Ave., Milwaukee, Wis.
- BERRENBURG, Reinold (1913), Secy., Genl. Mgr., Am. Rotary Pump Co., 67 Hampden St., Boston, Mass.
- BERRSFORD, Arthur W. (1911), V. P., Genl. Mgr., The Cutler-Hammer Mfg. Co., Milwaukee, Wis.
- BERRIAN, Henry C. (Junior, 1912), Engrg. Dept. Estimating Div., Newport News Shipbuilding & Dry Dock Co., and *for mail*, 3111 West Ave., Newport News, Va.
- BERRY, Arthur O. (1914), Senior M. E. So. Dist., Div. of Val., Interstate Commerce Com., Municipal Bldg., Chattanooga, Tenn.
- BERRY, Edgar H. (1905; 1907), present address unknown.
- BERRYMAN, Wilson G. (Junior, 1905), Sales Mgr., Earl E. Litz Co., 207 Market St., Newark, N. J., and *for mail*, 36 Murray St., Flushing, N. Y.
- BERTSCH, John C. (1901), Refrig. Engr., Westinghouse Mch. Co., East Pittsburgh, and *for mail*, 226 Elm St., Edgewood Park, Pittsburgh, Pa.
- BESSE, Eldred E. (Junior, 1914), M. E., The Lowell Gas Light Co., Lowell, Mass.
- BEST, Jesse L. (Junior, 1914), Ch. Engr., So. Ill. Light & Power Co., and *for mail*, 201 King St., Hillsboro, Ill.
- BEST, William J. (1910), Treas., Wheeler Condenser & Engrg. Co., 2406 Singer Bldg., New York, N. Y.
- BEST, William N. (1912), Oil Furnaces and Oil Htg. Engrg., 11 Broadway, New York, N. Y.
- BETH, Hugo W. II. (1912), Operating Engr., Norton Co., and 39 Burncoat St., Worcester, Mass.
- BETTS, Alfred (1881), 1515 W. 14th St., Wilmington, Del.
- BETTS, Philander (1912), Ch. Engr., Bd. of Pub. Utility Commrs., State of N. J., 738 Broad St., Newark, and 238 Valley Rd., Montclair, N. J.
- BEVER, John J. (Associate, 1915), Mgr. Fdy. Dept., The Otis Steel Co., Cleveland, and *for mail*, 17450 Clifton Blvd., Lakewood, O.
- BEVIN, Sydney (Junior, 1909), Engr., Fiske Bros. Refining Co., 24 State St., New York, and *for mail*, 11 Ash St., Flushing, L. I., N. Y.
- BEYER, Otto S., Jr. (Junior, 1913), Genl. Foreman, Rock Island Lines, Horton, Kan.
- BIBBINS, James R. (1904; 1909), Engr. with Bion J. Arnold, 105 S. La Salle St., Chicago, Ill.
- BIDDISON, P. McDonald (Associate-Member, 1915), Constr. Engr., The Ohio Fuel Supply Co., 52 W. Gay St., and *for mail*, 836 N. Park St., Columbus, O.
- BIDLE, William S. (1904), Pres., Treas., The W. S. Bidle Co., 1411 E. 45th St., and *for mail*, 1809 E. 93d St., Cleveland, O.
- BIDWELL, Carlyle D. (1913), M. E., Internatl. Harvester Corp., Akron, O.
- BIEBLER, Conrad A. (Associate, 1914), Sales Engr., Hyatt Roller Bearing Co., T. B. Woods Sons Co., 838 M. and M. Bank Bldg., Milwaukee, Wis.
- BIERBAUM, Christopher H. (1894; 1898), Life Member; Bierbaum-Dollar, Inc., V.P., Lumen Bearing Co., 1011 Mutual Life Bldg., and 84 Fargo Ave., Buffalo, N. Y.
- BIGELOW, Charles H. (1904), Ch. M. E., Millville Mfg. Co., and 917 Columbia Ave., Millville, N. J.
- BIGELOW, Frank B. (1907), Sales Mgr., Murphy Iron Wks., and 3061 West Grand Blvd., Detroit, Mich.
- BIGELOW, Frank L. (1887), Pres., The Bigelow Co., and 205 Whitney Ave., New Haven, Conn.

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- BIGGERT, F. C., Jr. (1916), Ch. Engr., United Engrg. & Fdy. Co., 2319 Farmers Bank Bldg., Pittsburgh, and *for mail*, 108 Hawthorn Ave., Crofton, Pa.
- BIGGS, Elias D. (Junior, 1913), Box 316, Dawson, New Mex.
- BIGLOW, Lemuel C. (1915), Office Mgr., Morse Chain Co., 50 Church St., New York, N. Y.
- BILGRAM, Hugo (1885), Machinist, 1235 Spring Garden St., and 751 N. 40th St., Philadelphia, Pa.
- BILLINGS, A. W. K. (1909), V. P. Managing Dir., Ebro Irrigation & Power Co., Ltd., Apartado 491, Barcelona, Spain, and care of Pearson Engrg. Corp., 115 Broadway, New York, N. Y.
- BILLINGS, Charles E. (1880), Vice-President, 1893-1895; President, 1895; Life Member; Pres., Genl. Mgr., The Billings & Spencer Co., Hartford, Conn.
- BILLINGS, Edward J. (Junior, 1912), Supt. Power, St. Joseph Ry., Light, Heat & Power Co., St. Joseph, Mo.
- BILLINGS, Frederic C. (1891), V. P., Billings & Spencer Co., and 78 Elm St., Hartford, Conn.
- BILLINGS, J. Harland (Junior, 1914), Instr. M. E., Johns Hopkins Univ., and *for mail*, 126 W. 27th St., Baltimore, Md.
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- BILLWILLER, Charles J., Jr. (Associate-Member, 1913), Constr. Engr., Nitrate Agencies, Ltd., Iquique, Chile, S. A.
- BILTON, Clarence E. (1914), Pres., Treas., The Stand. Mfg. Co., 900 Housatonic Ave., and R. F. D. 4, Bridgeport, Conn.
- BINGHAM, Elbert H. (1912), Wks. Mgr., The Solvay Process Co., Detroit, Mich.
- BINLEY, William, Jr. (1913), Ch. Draftsman Hull Div., Navy Yard, Brooklyn, N. Y., and *for mail*, 40 Blvd., Summit, N. J.
- BIRD, Frederick J. (1914), Engr. Charge Stand. Dept., Link-Belt Co., 39th St. and Stewart Ave., Chicago, Ill.
- BIRD, J. Philip (1914), Rm. 932, 30 Church St., New York, N. Y.
- BIRD, John B. (1913), Joseph Bancroft & Sons Co., and *for mail*, Hillcroft, Wilmington, Del.
- BIRD, John C. (1910), M. E., Union Steam Pump Co., and *for mail*, 46 Howland St., Battle Creek, Mich.
- BIRD, John D. (1891; 1905), Genl. Mgr., Power & Min. Mch. Co., Internatl. Gas Eng. Co., and 596 Summit Ave., Milwaukee, Wis.
- BIRD, Paul P. (1907), Mem. of Firm, Norton & Bird, 111 W. Monroe St., Chicago, and Highland Park, Ill.
- BIRD, William W. (1889; 1891), Prof. M. E., Dir. Washburn Shops, Worcester Poly. Inst., and 10 Harvard St., Worcester, Mass.
- BIRDSEY, Charles R. (Associate, 1907), Ch. Engr., U. S. Gypsum Co., 205 Monroe St., Chicago, and *for mail*, Hinsdale, Ill.
- BIRNIE, Col. Rogers (1913), Sandy Hook Proving Ground, Fort Hancock, N. J., and Governor's Island, N. Y.
- BISHOP, Charles R. (1903), Secy., Genl. Mgr., Am. Dist. Steam Co., North Tonawanda, and 413 Locust St., Lockport, N. Y.
- BISHOP, Frank (1907; 1910), Supt., Singer Mfg. Co., and 512 21st St., Cairo, Ill.

- BISSELL, Albert W. (Junior, 1914), Sales Dept., Am. Refractories Co., 208 S. LaSalle St., Chicago, Ill.
- BISSELL, Geo. W. (1890; 1899), Prof. M. E., Dean of Engrg., Mich. Agri. College, East Lansing, Mich.
- BITTERLICH, Walter J. (1906; 1913), Asst. M. M., Hood Rubber Co., and *for mail*, 40 Spruce St., Watertown, Mass.
- BIXBY, Allan S. (1907), Supt., Natl. Malleable Castings Co., Indianapolis, Ind.
- BIXBY, Walter (Junior, 1907), 126 Rosseter St., Dorchester, Mass.
- BIXBY, Genl. William H. (1888), Life Member; U. S. A., 735 Southern Bldg., and *for letters*, 1709 Lanier Pl., N. W., Washington, D. C.
- BIXBY, William P. (1908; 1916), Investigating Engr. Mech. Dept., Nashville, Chattanooga & St. Louis Ry., Nashville, Tenn.
- BIXLER, Harry Z. (1907), Ch. Engr., The Brier Hill Steel Co., and *for mail*, 213 Arlington St., Youngstown, O.
- BJORK, Carl G. (Associate-Member, 1914), Mech. Designer, Stone & Webster Engrg Corp., 147 Milk St., Boston, and 33 Edwin St., Ashmont, Mass.
- BJORNSSON, Carl A. (1915), Ch. Engr. Oil Eng. Dept., McEwen Bros., and 104 E. State St., Wellsville, N. Y.
- BLACK, Alexander L. (1915), Engr., Ford, Bacon & Davis, 921 Canal St., New Orleans, La.
- BLACK, Charles A. (1915), Supt. Dredging, The Panama Canal, and *for mail*, P. O. Box 406, Cristobal, C. Z.
- BLACK, Edgar N., 3d (Associate-Member, 1914), Asst. Engr., William H. Timm, Cons. Engr., 304 Abbott Bldg., and *for mail*, 4901 Cedar Ave., Philadelphia, Pa.
- BLACK, Edward S. (1903), Edgar Allen Am. Manganese Steel Co., Chicago, Ill.
- BLACK, George (Associate-Member, 1914), Asst. Ch. Rate-Fixer, Associated Equip. Co., Walthamston, London, N. E., and *for mail*, 5 Warren Rd., Chingford, Essex, England.
- BLACK, Winfield S. (Associate-Member, 1914), M. M., Am. Sugar Refinery, S. 4th St. and Kent Ave., Brooklyn, N. Y.
- BLACKALL, Frederick S. (1913), Chairman Exec. Com., R. Hoe & Co., 504 Grand St., New York, N. Y., and V. P., Genl. Mgr., The Taft-Peirce Mfg. Co., Woonsocket, R. I.
- BLACKBURN, Arthur H. (1894), Treas., Genl. Mgr., The Green Fuel Economy Co., Matteawan, and *for mail*, Inglewood Manor, Fishkill-on-Hudson, N. Y.
- BLACKBURN, Bryan M. (Associate-Member, 1914), Asst. Engr., R. D. Cole Mfg. Co., and *for mail*, 75 E. Broad St., Newnan, Ga.
- BLACKBURN, Charles H. (Junior, 1915), Hormiguero Central Corp., 63 Wall St., and 318 W. 57th St., New York, also, 116 Newburgh Ave., Beacon, N. Y.
- BLACKBURN, William A. (1915), Asst. Genl. Foreman, Cadillac Motor Co., and *for mail*, 230 Milwaukee Ave., Detroit, Mich.
- BLACKMAN, G. Horton (Junior, 1913), Mem. of Firm, Bowman-Blackman Mch. Tool Co., 1513 N. Broadway, and 5631 Berlin Ave., St. Louis, Mo.
- BLACKWELL, Josiah L. (1898), 27 William St., New York, N. Y., and 745 Calvert Bldg., Baltimore, Md.
- BLAIR, Frank M. (1913), V. P., Genl. Mgr., Blair Mfg. Co., P. O. Box 308, and 69 Linden Ave., Newark, O.
- BLAIR, George, Jr. (1915), Sales Engr., McClave-Brooks Co., Scranton, and *for mail*, Aldan, Delaware Co., Pa.
- BLAIR, William R. (1911), Wks. Mgr., Landis Mch. Co., St. Louis, and 473 Oakwood Ave., Webster Groves, Mo.
- BLAISDELL, Allen H. (Junior, 1912), 736 Wallace Ave., Wilkinsburg, Pa.

- BLAISDELL, Benjamin H. (1909), Ch. Engr., Manila Elec. R. R. & Light Co., Manila, P. I.
- BLAKE, Alfred D. (Associate-Member, 1914), Assoc. Editor, Power, 10th Ave. and 36th St., New York, and *for mail*, 4 Ohio Pl., West New Brighton, S. I., N. Y.
- BLAKE, Charles S. (1912), Secy., The Hartford Steam Boiler Inspc. & Ins. Co., and *for mail*, 220 Ashley St., Hartford, Conn.
- BLAKE, Edmund E. (1913), Agt., Saco-Lowell Shops, Biddeford, Me.
- BLAKE, Edwin M. (1907), Rm. 1406, 1 Liberty St., New York, N. Y.
- BLAKE, Francis E. (Junior, 1901), M. E., State Barge Canal Office, New Lyon Block, Albany, and Delmar, Albany Co., N. Y.
- BLAKE, Frank C. (Junior, 1915), Instr. M. E., Brown Univ., and *for mail*, 9 Scarle St., Providence, R. I.
- BLAKELEY, George H. (1907), Struc. Engr., Bethlehem Steel Co., and *for mail*, 519 Seneca St., South Bethlehem, Pa.
- BLAKEMAN, John W. (Associate-Member, 1914), Acting M. M., Bridgeport Brass Co., and *for mail*, 54 Wentworth St., Bridgeport, Conn.
- BLAKEMAN, Winfield W. (1913), Supt., The Blanchard Mch. Co., Cambridge, and *for mail*, 19 Prospect Hill Ave., Somerville, Mass.
- BLAKESLEE, Frank A. (1910), Ch. M. E., Ashanti Goldfields, Obuasi, Gold Coast Colony, West Africa.
- BLANCHARD, Henry W. (1909), Mgr. Austral Iron Wks., E. W. Tarry Co., Ltd., P. O. Box 1098, and Whiddon, Belgravia, Johannesburg, Transvaal, S. A.
- BLANCHARD, Rollo K. (1912; Associate-Member, 1914), Engr., Neptune Meter Co., 90 West St., New York, N. Y.
- BLAND, John P. (1901), Printer, Ch. Engr., The Times, and *for mail*, 48 Thurleigh Rd., Nightingale Lane, London, S. W., England.
- BLANDING, Forrest H. (1914), Supt., Woods Motor Vehicle Co., 2500 Calumet Ave., and *for mail*, 4156 Prairie Ave., Chicago, Ill.
- BLANDING, Robert L. (1913), Assoc. with Warren B. Lewis, Cons. Engr., and *for mail*, 10 Brightwood Ave., Providence, R. I.
- BLANK, Bernard (Junior, 1916), Inspr. Passenger Cars Pavonia Shops, Pa. R.R., and *for mail*, 1240 Princess Ave., Camden, N. J.
- BLANKENHORN, George S. (1906; 1913), M. E., Allis-Chalmers Mfg. Co., and *for mail*, 491 Jefferson St., Milwaukee, Wis.
- BLASDELL, Arthur F. (1912), Mfg. Supt., Genl. Elec. Co., and *for mail*, 191 Bartlett Ave., Pittsfield, Mass.
- BLATCHLEY, Chas. A. (1906), M. E., 1052 Drexel Bldg., Philadelphia, Pa., and 47 Walnut St., Haddonfield, N. J.
- BLAUVELT, Albert (1896), Assoc. Mgr., West. Factory Ins. Asso., Ins. Exch. Bldg., Chicago, Ill.
- BLAUVELT, William H. (1900), Cons. Engr., Semet-Solvay Co., and *for mail*, 1917 W. Genesee St., Syracuse, N. Y.
- BLEE, Harry H. (Associate-Member, 1913), Asst. M. E., Dept. of Engrg., State of Cal., and *for mail*, 505 J St., Sacramento, Cal.
- BLESSING, George F. (1913), Prof. M. E., Charge of Engrg., Swarthmore College, and *for mail*, 6 Whittier Pl., Swarthmore, Pa.
- BLEYER, Chas. F. (Junior, 1909), Erecting Engr., Allis-Chalmers Mfg. Co., 814 Frick Bldg., Pittsburgh, Pa., and *for mail*, 3820 Riverside Ave., S. W., Cleveland, O.
- BLICKMAN, John A. (1915), Asst. Supt., Westinghouse Elec. & Mfg. Co., East Pittsburgh, and 816 Ivy St., E. E., Pittsburgh, Pa.
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- BLISS, Collins P. (1903), Prof. M. E., N. Y. Univ., and *for mail*, 2208 Andrews Ave., New York, N. Y.
- BLISS, Edwin C. (1908), 69 Mulberry St., Pawtucket, R. I.
- BLOCK, Louis (1913), Cons. Engr., 45 E. 42d St., New York, and Mamaroneck, N. Y.
- BLOEMEKE, Rudolph B. (1909), 590 W. 172d St., New York, N. Y.
- BLOOD, Chas. W. H. (1902), V. P., Treas., S. A. Woods Mch. Co., Damrell St., South Boston, and *for mail*, 19 Floyd St., Winthrop, Mass.
- BLOOD, John B. (1895; 1903), Cons. Engr., 232 High St., Newburyport, Mass.
- BLOOD, Louis H. (1905), Mech. Supt., Wood & Brooks Co., Buffalo, N. Y.
- BLOSSOM, Francis (1902), Partner, Sanderson & Porter, 52 William St., New York, N. Y., and 65 Heywood Ave., Orange, N. J.
- BLUM, Arthur N. (1909), M. E., Genl. Delivery, New York, N. Y.
- BLUM, Joseph K. (Junior, 1909), Treas., K-B Pulverizer Co., Inc., 86 Worth St., and *for mail*, 2170 Broadway, New York, N. Y.
- BLUMENFELD, Ralph (1913; Associate-Member, 1916), Keller Mech. Engraving Co., 70 Washington St., Brooklyn, and 612 W. 112th St., New York, N. Y.
- BLUMGARDT, Isaac E. (Associate, 1908), 53 W. 82d St., New York, N. Y.
- BOBLET, Kinderman M. (Associate, 1911), Radiator Expt., The Kinsey Mfg. Co., and 626 Nessel St., Toledo, O.
- BOCKIUS, Charles A. (Associate-Member, 1914), Asst. M. E., Fuel Testing Co., 220 Devonshire St., Boston, Mass.
- BODWELL, Howard L. (1907), Asst. Dist. Mgr., Am. Sheet & Tin Plate Co., Vandergrift, Pa.
- BOEHM, Wm. H. (1900), Supt. Depts. Steam Boiler and Fly Wheel Ins., Fidelity & Casualty Co., 92 Liberty St., and 281 Edgecombe Ave., New York, N. Y.
- BOENIG, Robert W. (1892; 1909), Cons. Engr. Arch., 157 Meeker Ave., Brooklyn, N. Y.
- BOETTGER, Robert (1912), Secy., Selas Co., 521 W. 23d St., New York, and *for mail*, 131 Alta Ave., Park Hill, Yonkers, N. Y.
- BOGART, Albert L. (1913), Pres., Power Engrg Co., 512 Corn Exch. Bldg., and 4825 Pleasant Ave., Minneapolis, Minn.
- BOHN, Gebhard C. (Associate, 1915), V.P., White Enamel Refrigerator Co., 1400 University Ave., St. Paul, Minn.
- BOHNSTENGEL, Walter (Junior, 1915), Asst. to Engr. of Tests, A., T. & S. F. Ry., and *for mail*, 534 Madison St., Topeka, Kan.
- BOLE, Wm. A. (1887), V. P., Charge of Mfr., The Westinghouse Mch. Co., East Pittsburgh, and *for mail*, 722 S. Negley Ave., Pittsburgh, Pa.
- BOLES, Chalmers B. (Junior, 1914), Asst. M. M., Sulzberger & Sons Co., 41st and Ashland Ave., and 1440 E. 66th St., Chicago, Ill.
- BOLGIANO, J. Ralph (Junior, 1912), Engr., The Emerson Co., 30 Church St., New York, N. Y., and *for mail*, P. O. Box 206, Chillicothe, O.
- BOLLER, Alfred P., Jr. (1901), 80 Prospect St., East Orange, N. J.
- BOLLES, Frank G. (Associate, 1901), Commer. Agt., Dept. of Commerce of Washington, D. C., and *for mail*, 133 28th St., Milwaukee, Wis.
- BOLLING, Stewart, Jr. (Junior, 1912), Chicago Mgr., Southwark Fdy. & Mch. Co., 37 W. Van Buren St., and 6539 Drexel Ave., Chicago, Ill.
- BOLTE, Edward E. (Junior, 1914), Draftsman, Waugh Draft Gear Co., 809 Peoples Gas Bldg., Chicago, Ill.
- BOLTON, John W., Jr. (Junior, 1916), M. E., John W. Bolton & Sons Co., 9 Osgood St., and *for mail*, 224 Bailey St., Lawrence, Mass.

- BOLTON, Reginald P. (1898), Cons. Expt., Pres., The R. P. Bolton Co., 55 Liberty St., and 638 W. 158th St., New York, N. Y.
- BOND, Francis M. (1909; 1915), Remington Typewriter Wks., and *for mail*, Box 78, Ilion, N. Y.
- BOND, Geo. M. (1881), Manager, 1888-1891; Vice-President, 1908-1910; M. E., 69 Washington St., Hartford, Conn.
- BONE, Wm. H. (1883), V. P., Genl. Mgr., The Ironsides Co., and *for mail*, 85 N. Ohio Ave., Columbus, O.
- BONINE, Charles E. (1914), Cons. Engr., 609 Harrison Bldg., Philadelphia, and Melrose Park, Pa.
- BONNER, Richard O. (Junior, 1910), Genl. Mgr., Bonner Development Corp., and *for mail*, P. O. Box 152, Rockville Center, N. Y.
- BONNETT, L. B. (1911), Civ. Serv. Examiner, M. E., Municipal Civ. Service Com., Municipal Bldg., New York, N. Y., and *for mail*, 310 W. Jersey St., Elizabeth, N. J.
- BONNEY, Herbert M. (Junior, 1909), Ch. Draftsman, L. F. Fales, and *for mail*, Walpole, Mass.
- BOOMHOWER, Frederick K. (1914), Engr. with Albert Kahn, Arch., 58-60 Lafayette Blvd., and *for mail*, 65 Blaine St., Detroit, Mich.
- BOORAEM, J. Francis (1895; 1906), Secy., Treas., The Am. Enameled Brick & Tile Co., 52 Vanderbilt Ave., New York, N. Y., and South River, N. J., Pres., Treas., Cinch Expansion Bolt & Engrg. Co., 208 Lafayette St., New York, N. Y.; res., Shore Rd., Greenwich, Conn.
- BOORAEM, J. Van Vorst (1884), Life Member; Cons. Engr., 204 Lincoln Pl., Brooklyn, N. Y.
- BOOTH, Charles A. (1909), Charge Engrg., Sales, Buffalo Forge Co., Buffalo Steam Pump Co., and *for mail*, 142 Summit Ave., Buffalo, N. Y.
- BOOTHMAN, Dale M. (1915), Ch. Draftsman, Shredded Wheat Co., Niagara Falls, and *for mail*, 34 Ericson Pl., La Salle, N. Y.
- BORCHARDT, Albert H. (Junior, 1912), Engr., Henry R. Worthington, Harrison, N. J., and *for mail*, 1330 Pacific St., Brooklyn, N. Y.
- BORDE, George U. (1909), Cons. Engr., 820-822 Hibernia Bldg., New Orleans, La.
- BORDEN, John M. (Junior, 1912), Estimator, John Borden & Bro., 637 N. 19th St., Philadelphia, and *for mail*, 4622 Wayne Ave., Germantown, Philadelphia, Pa.
- BORDEN, Moro M. (1913), M. E., Simplex Valve & Meter Co., 208 Chancellor St., Philadelphia, Pa., and *for mail*, 310 Lees Ave., Collingswood, N. J.
- BORDEN, Wm. H. (Junior, 1905), Goldsboro, N. C.
- BORIE, Renshaw (Associate-Member, 1913), E. E., Yale & Towne Mfg. Co., and *for mail*, 366 Atlantic St., Stamford, Conn.
- BORNHOLT, Oscar C. (1904; 1909), M. M., Maxwell Motor Co., and *for mail*, 61 Alexandrine Ave., E., Detroit, Mich.
- BOSLER, Benj. E. (1914), Asst. Supt. Mech. Dept. Shops, Cambria Steel Co., and *for mail*, 197 Ohio St., Johnstown, Pa.
- BOSSERT, Chas. P. (1892; 1901), M. E., Pfister & Vogel Leather Co., and *for mail*, 179 36th St., Milwaukee, Wis.
- BOSSINGER, Ernest L. (1914), Asst. to Ch. Engr., The Midvale Steel Co., Nicetown, Philadelphia, and 556 E. Woodlawn Ave., Germantown, Philadelphia, Pa.
- BOSWORTH, Wilbur M. (1913), M. E., Norfolk So. R.R. Co., Berkley, Va.
- BOTT, George R. (1913), M. E., The Norma Co. of Am., 1790 Broadway, New York, N. Y.
- BOUGHTON, Judson H. (1903; 1911), Pres., Natl. Light & Power Co., Pierce Bldg., and 6343 Berlin Ave., St. Louis, Mo.

- BOURNE, George L. (1903), V. P., Loco. Superheater Co., 30 Church St., New York, and Lyncroft Rd., New Rochelle, N. Y.
- BOURNE, Phillips P. (1914), Ch. Engr., Epping Carpenter Pump Co., Pittsburgh, Pa.
- BOURNE, Ralph H. (Associate-Member, 1914), V. P., Asst. Sales Mgr., Whiting Fdy. Equip. Co., Harvey, and *for mail*, 607 Rush St., Chicago, Ill.
- BOURNE, Stephen N. (1891), Agt., Dundee Mills, Hookset, and *for mail*, Elm and Blodgett Sts., Manchester, N. H.
- BOURQUIN, James F. (1907; 1915), Genl. Mgr., Paige-Detroit Motor Car Co., and *for mail*, 2252 West Grand Blvd., Detroit, Mich.
- BOUSFIELD, Alfred (1912), Ch. Engr., E. & T. Fairbanks Co., and *for mail*, P. O. Box 166, St. Johnsbury, Vt.
- BOUTON, Geo. I. (1901; 1904), Ch. Engr., Murphy Iron Wks., and 288 Baldwin Ave., Detroit, Mich.
- BOVEY, William H. (1913), Genl. Supt., Dir., Washburn Crosby Co., Chamber of Commerce, and 212 W. Franklin Ave., Minneapolis, Minn.
- BOWEN, Almon F. (1914), New London Ship & Eng. Co., Groton, Conn.
- BOWEN, David R. (1899), Supt., Farrel Fdy. & Mch. Co., and *for mail*, 5 Clover St., Ansonia, Conn.
- BOWEN, Harrison S. (1895; 1908), M. E., Robert W. Hunt & Co., 2200 Ins. Exch. Bldg., Chicago, and Wilmette, Ill.
- BOWER, J. G. (Associate, 1903), The Buckeye Steel Castings Co., 50 Church St., and Vanderbilt Hotel, New York, N. Y.
- BOWER, Ward J. (Junior, 1913), Asst. M. M., Inland Steel Co., and *for mail*, 3602 Elm St., Indiana Harbor, Ind.
- BOWERMAN, Myron R. (1910; Associate-Member, 1914), Instr. Mch. Design, Kan. State Agri. College, and *for mail*, 1105 Vattier St., Manhattan, Kan.
- BOWERS, George W. (1910), Mech. and Cons. Engr., 53 Devonshire St., Boston, and *for mail*, 47 Franklin St., Somerville, Mass.
- BOWES, Lawrence C. (Junior, 1914), Engrg. Dept., Swift & Co., and *for mail*, 9556 Prospect Ave., Chicago, Ill.
- BOWLES, John D. (Associate-Member, 1916), Supt. of Elec. Dept., Springfield Gas & Elec. Co., Springfield Traction Co., and 235 Dollison St., Springfield, Mo.
- BOWLES, William A., Jr. (Junior, 1915), Engr. Constr. Dept., Appalachian Power Co., Bluefield, W. Va.
- BOWMAN, Franklin M. (1894; 1902), V. P., Blaw Steel Constr. Co., Farmers Bank Bldg., and *for mail*, 1234 N. Highland Ave., Pittsburgh, Pa.
- BOYD, Ernest M. (Junior, 1915), 11 Grampian Way, Upham's Cor. P. O., Boston, Mass.
- BOYD, Ford E. (Junior, 1912), M. E. with Ch. Engr., Oliver Iron Min. Co., 714 Wolvin Bldg., and 3620 E. 4th St., Duluth, Minn.
- BOYD, James C. (1907), V. P., Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y., and 213 Park St., Montclair, N. J.
- BOYD, James E. (1915), Prof. Mech., Ohio State Univ., Lord Hall, Columbus, O.
- BOYD, John T. (1887), 231 Polify Rd., Hackensack, N. J.
- BOYD, Willard A. (1916), Supvg. Engr., Light, Heat and Power Dept., E. I. Du Pont de Nemours & Co., Wilmington, Del., and *for mail*, 30 Pendleton Pl., New Brighton, N. Y.
- BOYD, William C. (1907), Asst. Engr., Pittsburgh Rys. Co., 435 Sixth Ave., Pittsburgh, and *for mail*, McKees Rocks, Pa.
- BOYD, W. Wallace (Junior, 1910), Asst. Insp., Weights and Measures, Bureau of Standards, Washington, D. C.

- BOYER, Edwin S. (1897; 1902; 1907), M. E., Walter Kidde, 140 Cedar St., New York, N. Y., and *for mail*, 93 Fairview Ave., Plainfield, N. J.
- BOYER, Frederic Q. (1909; Associate-Member, 1913), Engr. of Tests, The H. B. Smith Co., and *for mail*, 53 Court St., Westfield, Mass.
- BOYER, Joseph (1913), Pres., Burroughs Adding Mch. Co., Burroughs and Second Aves., and *for mail*, 637 Woodward Ave., Detroit, Mich.
- BOYLE, Clarence, Jr. (Junior, 1914), Salesman, Clarence Boyle, Inc., 1211 Lumber Exch. Bldg., and *for mail*, 541 Melrose St., Chicago, Ill.
- BOYLE, William G. (1915), Mech. Supt., Engr., Estate of Henry W. Oliver, 232 Oliver Bldg., Pittsburgh, Pa.
- BOYNTON, John E. (Associate-Member, 1915), Ch. Engr., Am. Brick Co., and *for mail*, Box 265, Lincoln, Ill.
- BRADFORD, Louis J. (Junior, 1914), Instr. Mch. Design, Sibley College, Cornell Univ., and *for mail*, 809 E. State St., Ithaca, N. Y.
- BRADLEY, John E. (1914), Pres., Osgood Bradley Car Co., Worcester, Mass.
- BRADLEY, W. H. (1892), Ch. Engr., Consltd. Gas Co. of N. Y., 130 E. 15th St., and 23 W. 68th St., New York, N. Y.
- BRADLEY, Wm. J. (1905), Supt., Rail Joint Co., and 1 Belle Ave., Troy, N. Y.
- BRADSHAW, Grant D. (1904; 1913), Pres., Andrews-Bradshaw Co., 409 Diamond Bank Bldg., and 2356 Sherbrook St., Pittsburgh, Pa.
- BRADY, George S. (Associate-Member, 1916), Efficiency Engr., Winchester Repeating Arms Co., New Haven, and *for mail*, Bethel, Conn.
- BRADY, Joseph B. (Junior, 1910), Joseph T. Ryerson & Son, 16th and Rockwell Sts., Chicago, and *for mail*, 6225 Pleasant St., Oak Park, Ill.
- BRADY, Joseph H. (1907), Ch. Engr., Bd. of Education, 514 Finance Bldg., and 3612 Paseo Blvd., Kansas City, Mo.
- BRADY, Laban J. (Junior, 1916), 715 N. Oak St., Newton, Kan.
- BRAINE, Baneroff G. (1896; 1905), Engr., The Rail Joint Co., 185 Madison Ave., and 1186 Lexington Ave., New York, N. Y.
- BRAKEMAN, Roy E. (1911), Asst. Ch. Engr. Steel Wks. and Blast Furnace Dept., Tenn. Coal, Iron & R. R. Co., and *for mail*, Box 36, South Highland Sta., Birmingham, Ala.
- BRAMAN, Samuel N. (1902; 1915), 33 Pearl St., and *for mail*, 10 Newbury St., Boston, Mass.
- BRAND, George B. (1912), Remington Typewriter Wks., Ilion, N. Y.
- BRAND, Walter N. (1912), Genl. Supt. Smith Premier Wks., Remington Typewriter Co., and 916 Lancaster Ave., Syracuse, N. Y.
- BRANDES, Hermann (1913), M. E., Pur. Agt., Compania Minera de Penoles, S. A., 61 Broadway, New York, N. Y.
- BRANDES, William P. (Junior, 1914), Engr., H. S. Kerbaugh, Inc., 723 Munsey Bldg., and Wentworth Apts., Baltimore, Md.
- BRANDON, Geo. R. (1897; 1901), V. P., Genl. Engr., Whiting Fdy. Equip. Co., Harvey, and *for mail*, R. R. 1, Homewood, Ill.
- BRANDON, William J. (1912), M. E., Avery Co., and 503 W. Armstrong Ave., Peoria, Ill.
- BRASHEAR, John A. (1891; Honorary, 1908), Manager, 1899-1902; President, 1915; Mfr., Astronomical and Physical Instruments, 1954-1964 Perrysville Ave., N. S., Pittsburgh, Pa.
- BRASSINGTON, John W. (1915), Engr. of Drawing Rm., The Pusey & Jones Co., and *for mail*, 902 Van Buren St., Wilmington, Del.
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- BRAUN, Horace H. (Junior, 1911), Constr. Engr., Cia Reigos & Fuerza del Ebro, Apartado 491, Barcelona, Spain, and 1847 Cordova St., Los Angeles, Cal.
- BRAY, Charles W. (1888), R. D. No. 1, Bridgeport, Pa.
- BRAY, Thos. J. (1898), Pres., Republic Iron & Steel Co., and 524 Wick Ave., Youngstown, O.
- BRAZIER, Frederick W. (1914), Supt. Rolling Stock, N. Y. C. & H. R. R. R. Co., 1514 Grand Central Terminal, New York, N. Y.
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- BREED-LOVE, Lincoln B. (Junior, 1915), Instr., Robert College, Constantinople, Turkey, and *for mail*, 433 Ross Ave., Wilksburg, Pa.
- BREER, Carl (Junior, 1912), Acme Elec. Auto. Wks., 1210 S. Grand Ave., Los Angeles, and *for mail*, 1800 Mar Vista Ave., Pasadena, Cal.
- BRENDLINGER, Wm. B. (Associate, 1907), Asst. Genl. Sales Mgr., Ingersoll-Rand Co., 11 Broadway, New York, N. Y.
- BRENEMAN, Paul E. (Junior, 1912), Ch. Draftsman, Eng. Dept., E. G. Budd Mfg. Co., Philadelphia, Pa.
- BRENGEL, Frederick J. (Junior, 1914), Asst. Supt. Mfg. Dept., Safety Car Mtg. & Ltg. Co., 215 12th St., and *for mail*, 108 Garrison Ave., Jersey City, N. J.
- BRENNAN, E. M. (Associate-Member, 1916), Engrg. Dept. Curtiss Aeroplane Co., Churchill St., and *for mail*, 45 W. Mohawk St., Buffalo, N. Y.
- BRENNAN, James (Junior, 1911), Ch. Engr., Crucible Steel Co. of Am., 2032 Oliver Bldg., and *for mail*, Beechwood Blvd., E. L., Pittsburgh, Pa.
- BRENNAN, John T. (Associate-Member, 1913), Asst. Engr. Bridge Dept., Cuyahoga Co., and *for mail*, 1293 W. 108th St., Cleveland, O.
- BRENNER, Wm. H. (1897), Managing Dir. of Wks., Compania Anglo-Espanola de Cemento Portland, Matillas, Guadalajara, Spain, and *for mail*, 2005 Peachtree Rd., Atlanta, Ga.
- BREZZINGER, Julius (1915), V. P., Genl. Supt., Max Ams Mch. Co., and *for mail*, 320 Seneca Ave., Mt. Vernon, N. Y.
- BRESLOVE, Joseph (1906; 1913), Sales Engr., Allis-Chalmers Mfg. Co., Park Bldg., and 5876 Darlington Rd., Pittsburgh, Pa.
- BRETT, Henry E. (1902), Cons. Engr., 114 N. Spring St., Los Angeles, Cal.
- BRETZFELDER, Ira L. (Associate, 1914), V. P., Treas., Alvey Mfg. Co., 3201 S. Broadway, St. Louis, Mo.
- BREWER, Arthur (1906), Supt. Plant, Bridgeport Brass Co., and *for mail*, 100 Unquowa Hill, Bridgeport, Conn.
- BREWSTER, Frank H. (1891), Genl. Supt., U. S. Rubber Reclaiming Wks., 724 Babcock St., and 180 Woodbridge Ave., Buffalo, N. Y.
- BREWSTER, Henry B. (1915), Engr., H. S. Kerbaugh, Inc., 700 Telephone Bldg., Buffalo, and 134 Holland St., Syracuse, N. Y.
- BREYER, Emil F. (Associate-Member, 1915), M. E., The Doe Run Lead Co., Rivermines, Mo.
- BREZINSKY, Emil (1912), The Strong-Scott Mfg. Co., Minneapolis, Minn.
- BRICE, Andrew T. (1913), M. E. Dept. of Pub. Wks., Borough of Manhattan, Bureau of Pub. Bldgs. and Offices, 43 Park Row, and *for mail*, 165 E. 80th St., New York, N. Y.

- BRIDENBAUGH, Elmer H. (1912), Supt., The Jackson Compressor Co., 1180 12th St., and 1223 Acoma St., Denver, Colo.
- BRIDGES, Luther W. (1916), M. E., Charles H. Tenney & Co., 201 Devonshire St., Boston, and *for mail*, 95 Union Ave., Framingham, Mass.
- BRIGGS, Arthur J. (1907), M. E., Smith Premier Typewriter Co., and 107 Victoria Pl., Syracuse, N. Y.
- BRIGGS, Leroy E. (1911; Associate-Member, 1914), 129 Waverly St., Providence, R. I.
- BRIGGS, Lester G. (Junior, 1916), The Fairbanks Co., Broome and Lafayette Sts., New York, N. Y.
- BRIGGS, William C. (1907), Erie Ave. and Springfield Rd., Elizabeth, N. J.
- BRIGHAM, Edmond F. (1913), M. E., N. E. Confectionery Co., 253 Summer St., Boston, and 46 Russell St., Brookline, Mass.
- BRIGHT, Fred. E. (1913), Pres., The Hess-Bright Mfg. Co., Front St. and Erie Ave., Philadelphia, Pa.
- BRIGHT, Holstein De H. (1905; 1906; 1913), Pres., Southwark Fdy. & Mch. Co., Washington Ave. and 5th St., and *for mail*, Union League Club, Philadelphia, Pa.
- BRILL, George M. (1891; 1896), Manager, 1904-1907; Vice-President, 1910-1912; care of Am. Soc. M. E., 29 W. 39th St., New York, N. Y.
- BRINK, Harry L. (1912), First Asst. to Ch. Engr., Am. Hoist & Derrick Co., and *for mail*, 1738 Van Buren St., St. Paul, Minn.
- BRINKERHOFF, Albert D. (Junior, 1913), 1313 S. 8th St., Waco, Tex.
- BRINKERHOFF, Harry A. (1910), 199 Sylvan St., Rutherford, N. J.
- BRINLEY, Charles E. (1913), V. P., Mgr., The Am. Pulley Co., 4200 Wis-sahickon Ave., Philadelphia, Pa.
- BRINSMADÉ, Louis L. (1897; 1906), East. Sales Mgr., Westinghouse Mch. Co., 165 Broadway, and The Friesland, 103d St. and Broadway, New York, N. Y.
- BRINTON, Willard C. (1907; 1912), Cons. Engr., 7 E. 42d St., and 55 W. 44th St., New York, N. Y.
- BRISTOL, Howard H. (Junior, 1913), Charge Exper. Dept., The Bristol Co., Waterbury, Conn.
- BRISTOL, Wm. H. (1890), Pres., The Bristol Co., Waterbury, Conn.
- BRITTON, John A. (1907), V. P., Genl. Mgr., Pac. Gas & Elec. Co., 445 Sutter St., San Francisco, Cal.
- BROBSTON, Joseph (1912), Mgr., Dexter Portland Cement Co., Nazareth, Pa.
- BROCK, Clarence A. (Junior, 1913), Detroit Steel Products Co., 2320 E. Grand Blvd., Detroit, Mich.
- BROCK, William M. (1894), Supt. Elec. Dept., Pub. Serv., Edison Sta., and 576 E. 25th St., Paterson, N. J.
- BROCKLEBANK, Arthur P. (1912), Ch. Engr., Alberger Pump & Cond. Co., Rm. 710, 140 Cedar St., New York, N. Y.
- BRODEN, Edwin H. (1912), Supt. Wks., Am. Steel & Wire Co., Braddock, and *for mail*, 858 E. Hutchinson Ave., Edgewood Park, Swissvale, Pa.
- BRODHEAD, Alex. L. (Junior, 1900), Cons. Engr., Catasauqua, Pa.
- BROXAUGH, Will L. (Associate, 1905), 23 Pine Ave., La Grange, Ill.
- BRONSON, Carlos E. (Junior, 1915), Asst. M. E., Kewanee Boiler Co., and *for mail*, 124 E. Prospect St., Kewanee, Ill.
- BROOKE, W. Clement (Junior, 1915), Insp., East Orange Water Dept., City Hall, and *for mail*, 430 William St., East Orange, N. J.
- BROOKS, Chas. C. (1915), Asst. West. Mgr., Mead-Morrison Mfg. Co., 746-752 Monadnock Bld., and *for mail*, 6047 Woodlawn Ave., Chicago, Ill.

- BROOKS, Edwin C. (1884), 353 Grove St., Melrose, Mass.
- BROOKS, Henry K. (1907), Pres., Capital Iron Wks., and Westlawn, Topeka, Kan.
- BROOKS, J. Ansel (1907; 1911), Assoc. Prof. Mech. and Mech. Drawing, Brown Univ., Providence, R. I.
- BROOKS, Louis C. (1901; Associate-Member, 1915), E. E. Industrial Control Dept., Genl. Elec. Co., and *for mail*, Route 49, Ballston Rd., Schenectady, N. Y.
- BROOKS, Morgan (1885), Life Member; Prof. E. E., Univ. of Ill., Urbana, Ill.
- BROOKS, O. C. (1912), Engr., Robins Conveying Belt Co., 13 Park Row, and *for mail*, 302 W. 22d St., New York, N. Y.
- BROOKS, Percy C. (1915), V. P., The Canadian Fairbanks-Morse Co., Ltd., 1379 Bloor St., Toronto, Ont., Canada.
- BROOM, Benjamin A. (1914), M. E., 500 United Bank Bldg., and 2511 Jones St., Sioux City, Ia.
- BROOME, Ernest L. (1898; 1909), M. E., 49 Wall St., New York, and Tarrytown, N. Y.
- BROSIUS, Frank R. (1913), Supt. of Power, Union Gas & Elec. Co., Cincinnati, and *for mail*, 511 Prospect Pl., Avondale, Cincinnati, O.
- BROTHERHOOD, Rowland S. (1916), Asst. Engr., Internatl. Silver Co., and *for mail*, 420 Liberty St., Meriden, Conn.
- BROWN, A. G. (1884), Life Member; 53 Victoria Bldgs., Manchester, and *for mail*, Ellerslie, Oswald Rd., Chorlton-cum-Hardy, England.
- BROWN, Albert M. (Junior, 1915), Chicago Pneu. Tool Co., 1740 Market St., Philadelphia, Pa.
- BROWN, Alexander C. (Junior, 1914), V. P., The Brown Hoisting Mch. Co., 4403 St. Clair Ave., and 1625 Hazel Drive, Cleveland, O.
- BROWN, Alex. T. (1890), Life Member; Pres., Smith Premier Typewriter Co., Brown-Lipe Gear Co., Pres., Brown-Lipe-Chapin Co., and *for mail*, 608 W. Onondaga St., Syracuse, N. Y.
- BROWN, Alfred C. (1914), Wks. Mgr., Hopkins & Allen Arms Co., and 12 William St., Norwich, Conn.
- BROWN, Aubrey I. (Junior, 1914), Instr. M. E., Ohio State Univ., Robinson Lab., Columbus, O.
- BROWN, Cecil W. (Associate-Member, 1915), Industrial Power Spec., Stone & Webster Management Asso., 147 Milk St., Boston, Mass., and *for mail*, 3 Clinton St., Woonsocket, R. I.
- BROWN, Charles M. (Associate, 1912), Genl. Sales Agt., Colonial Steel Co., 1203 Keystone Bldg., Pittsburgh, Pa.
- BROWN, Chas. S. (1890), Prof. M. E., Vanderbilt Univ., and 921 19th Ave., S., Nashville, Tenn.
- BROWN, Dickson Q. (1902; 1914), Tide Water Oil Co., 11 Broadway, New York, N. Y.
- BROWN, Earle W. (1913), Asst. Supt. Blast Furnaces, The Natl. Tube Co., Lorain, and *for mail*, 128 Ohio St., Elyria, O.
- BROWN, Edward W. (1910), V. P., Genl. Mgr., Sterling Salt Co., 29 Broadway, New York, and Dongan Hills, S. I., N. Y.
- BROWN, Edwin H. (1903; 1914), Mem. of Firm, Hewitt & Brown, 716 Fourth Ave., S., Minneapolis, and Wayzata, Minn.
- BROWN, Ernest W. (1912), V. P., Engr., Blackstone and Merchants Mutual Fire Ins. Cos., 802 Grosvenor Bldg., Providence, R. I.
- BROWN, Eugene L., Jr. (1914; Associate-Member, 1914), Ch. Deputy Insp. Boilers and Elev., City of St. Louis, 426 City Hall, and *for mail*, 4489 Washington Blvd., St. Louis, Mo.

- BROWN, Frederick B. (1913), Cons. Engr., Partner, Walter J. Francis & Co., 232 St. James St., Montreal, Que., Canada.
- BROWN, Gabriel S. (1912), Second V. P., Alpha Portland Cement Co., and *for mail*, Meixell St., Easton, Pa.
- BROWN, Harry S. (Junior, 1910), N. E. Sales Mgr., Power Spec. Co., 50 Congress St., Boston, and 107 Dummer St., Brookline, Mass.
- BROWN, Harry W. (Junior, 1909), Asst. Engr., Am. Agri. Chem. Co., 92 State St., Boston, and *for mail*, 118 Brighton Ave., Allston, Mass.
- BROWN, Herman E. (1908), Cons. Engr., 15 W. Chestnut St., Kingston, N. Y.
- BROWN, Howard H. (Junior, 1908), Editor, Internatl. Marine Engrg., 17 Battery Pl., New York, N. Y.
- BROWN, Hugh T. (1903), Stone Fort Power Co., Winchester, Tenn.
- BROWN, J. Grove (1902), M. E., Groton, N. Y.
- BROWN, J. Linwood (1902), Mech. and Cons. Engr., R. F. D. No. 1, Conneaut, Ashtabula Co., O.
- BROWN, James M. (1900; 1906), Supt., Lyons Boiler Wks., De Pere, Wis.
- BROWN, James W. (1914), Engr. Spec. Equip., Cadillac Motor Car Co., and *for mail*, 2960 W. Grand Blvd., Detroit, Mich.
- BROWN, John J. (1902), V. P., Genl. Mgr., Wheeler Cond. & Engrg. Co., Carteret, and 44 Bleecker St., Newark, N. J.
- BROWN, John Q. (1906), V. P., Genl. Mgr., Nev. Valleys Power Co., 414 First Natl. Bank Bldg., and 127 Bayo Vista Ave., Oakland, Cal.
- BROWN, John R. (1900; 1904; 1909), M. E., Ohio Brass Co., Mansfield, O.
- BROWN, John W., Jr. (1915), Cons. Engr., 1501 Continental Trust Bldg., Baltimore, Md.
- BROWN, Lyman H. (1914), M. E., The Travelers Ins. Co., Hartford, Conn.
- BROWN, Melville G. (Associate-Member, 1915), Pres., No. Tel. & Power Co., Ltd., Prince George, B. C., Canada.
- BROWN, Mortimer C. (Associate-Member, 1915), Draftsman, Aetna Explosives Co., 2 Rector St., New York, and *for mail*, 137 Summit Ave., Mt. Vernon, N. Y.
- BROWN, Owsley (Associate-Member, 1914), Pres., Treas., The Springfield Boiler & Mfg. Co., and *for mail*, P. O. Box 47, Springfield, Ill.
- BROWN, Rezeau B. (1913), Genl. Mgr., Ch. Engr., Milwaukee Gas Light Co., 182 Wisconsin St., and *for mail*, P. O. Box 824, Milwaukee, Wis.
- BROWN, Richard P. (Junior, 1908), Pres., Brown Instrument Co., 9th St. and Montgomery Ave., and 3617 Powelton Ave., Philadelphia, Pa.
- BROWN, Robert G. (1912), Woolman House, Swarthmore, Pa.
- BROWN, Robt. S. (1891; 1904), Secy., New Britain Mch. Co., and *for mail*, 16 Forest St., New Britain, Conn.
- BROWN, Stephen P. (1909), Ch. Engr., Canadian No. Montreal Tunnel & Terminal Co., Ltd., Managing Engr., Montreal Tunnel & Terminal Constr. for Mackenzie, Mann & Co., Ltd., 411 Dorchester St., W., Montreal, Que., Canada.
- BROWN, Stuart F. (Junior, 1913), Supt's. Office, Whitin Mch. Wks., Whitinsville, Mass.
- BROWN, Theophilus (1912), Genl. Supt., Marseilles Co., East Moline, Ill.
- BROWN, Thomas O. (1913), M. E., Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y.
- BROWN, Walter E. (Junior, 1910), Ch. Draftsman, United Iron Wks. Co., and 806 East St., Iola, Kan.
- BROWN, Will H. (1909), Mfr., Brown Traflog Co., 6536 Carnegie Ave., and 3813 Euclid Ave., Cleveland, O.

- BROWN, Willard (1910), Ch. Engr. Blast Furnace and Steel Wks., Upson Nut Co., Cleveland, and *for mail*, 13,271 Euclid Ave., East Cleveland, O.
- BROWN, William C. (1896), Ch. Engr., Humphrey Gas Pump Co., S. A. and K. Bldg., Syracuse, N. Y.
- BROWNE, Frank A. (1913), 178 Walden Ave., Buffalo, N. Y.
- BROWNE, James H. (1912), Cons. Engr., Box 161, Short Beach, Conn.
- BROWNING, Charles, Jr. (1905), Foreman Lab., So. Pac. Co., and *for mail*, P. O. Box 1127, Sacramento, Cal.
- BROWNING, Frank H. (1914), M. E., The Union Sulphur Co., Sulphur, La.
- BROWNING, Victor R. (1908), Victor R. Browning & Co., and cor. Lake Shore Blvd. and Neff Rd., Cleveland, O.
- BROWNLEE, Robert B. (Junior, 1912), Asst. to Ch. Engr., Cooper Hewitt Elec. Co., 730 Grand St., and *for mail*, 1307 Bloomfield St., Hoboken, N. J.
- BRUCE, Alfred W. (1914), Charge Specification Dept., Am. Loco. Co., 30 Church St., New York, N. Y.
- BRUCE, John M. (Associate, 1915), Installing Task and Bonus System for Sales Forces, 5710 Grand Central Term., New York, N. Y.
- BRUCKNER, Rudolph E. (1909), Sales Engr., U. S. Gauge Co., 67 Wall St., and *for mail*, 672 St. Nicholas Ave., New York, N. Y.
- BRUEGEL, A. Theodore (1900), Secy., The Hess-Bright Mfg. Co., Front St. and Erie Ave., Sta. E, and *for mail*, 1102 Melrose Ave., Melrose Park, Oak Lane Sta., Philadelphia, Pa.
- BRUFF, Charles E. (1908), Bradley, Bruff & Labarthe, 1014 Hobart Bldg., San Francisco, Cal.
- BRUFF, Charles L. (1914), Combustion Engr., United Gas Improvement Co., 1401 Arch St., Philadelphia, Pa.
- BRUNGER, Harry L. (1913), Ch. Engr., The Aultman & Taylor Mch. Co., and *for mail*, 712 W. 4th St., Mansfield, O.
- BRUNNER, George L. (Associate, 1915), Treas., Genl. Mgr., Brunner Mfg. Co., Broad and Gilbert Sts., and 817 Genesee St., Utica, N. Y.
- BRUNNER, Roy S. (1912), Ch. Engr., Lehigh Coke Co., South Bethlehem, and *for mail*, 302 N. 7th Ave., Bethlehem, Pa.
- BRUNTON, David W. (1913), Cons. Min. Engr., 730 Symes Bldg., Denver, Colo.
- BRUSH, Alanson P. (1915), Cons. Engr., 203 Boyer Bldg., Detroit, Mich.
- BRUSH; Charles F. (1880), Life Member; E. E., 481 The Arcade, and 3725 Euclid Ave., Cleveland, O.
- BRYAN, Walter E. (Associate-Member, 1914), Supt. Power Stas., United Rys. Co. of St. Louis, 3869 Park Ave., and 5915 DeGiverville Ave., St. Louis, Mo.
- BRYANT, F. J. (1902), M. M., Andrew McLean Co., 4th and Virginia Sts., and *for mail*, 31 Lincoln St., Passaic, N. J.
- BRYANT, George F. (1912), Rm. 1824, 72 W. Adams St., Chicago, Ill.
- BRYANT, William L. (1910), Pres., Bryant Chucking Grinder Co., Springfield, Vt.
- BRYCE, Richard M. (Junior, 1913), Armstrong Cork & Insulation Co., Third and Elm Sts., and *for mail*, 5015 Cabanne St., St. Louis, Mo.
- BRYDON, Herbert B. (1911), M. E., H. M. Byllesby & Co., Chicago, Ill.
- BRYEN, Thomas T. (1912; Associate-Member, 1915), M. E., Ardmore Blvd., Edgewood Acres, Wilksburg, Pa.
- BUCK, Carl F. (1914), Ch. Engr., Am. Smelting & Refining Co., Tacoma Smelting Co., Tacoma, Wash., and 120 Broadway, New York, N. Y.
- BUCK, Irwin (Junior, 1907), Ehrlich Bros., 200 Fifth Ave., and *for mail*, 347 W. 55th St., New York, N. Y.

- BUCK, Lucien (1911; 1913), Purchasing and Paper Mill Engr., Eastman Kodak Co., and *for mail*, 1416 Lake Ave., Rochester, N. Y.
- BUCK, T. E. (Associate-Member, 1914), Draftsman Exper. Dept., Internatl. Harvester Corp., Akron, O., and 629 S. 6th St., Springfield, Ill.
- BUCKINGHAM, Earle (Associate-Member, 1913), 227 Sigourney St., Hartford, Conn.
- BUCKINGHAM, Edgar (1914), Assoc. Physicist, Bureau of Standards, Washington, D. C., and 16 Hesketh St., Chevy Chase, Md.
- BUCKINGHAM, Henry H. (Junior, 1904), Hysham, Mont.
- BUCKLER, Albert (Junior, 1905), care of Lighthouse Inspr., Baltimore, Md.
- BUCKLEY, John F. (1906), Genl. Mgr., Buckley Spec. & Mch. Co., and 996 Richie Ave., Lima, O.
- BUCKLEY, John H. (1912), Index Div. Engr., Otis Elev. Co., and 243 Warburton Ave., and *for mail*, P. O. Box 335, Yonkers, N. Y.
- BUCKWALTER, Tracy V. (1913), M. E. Dept., care of J. V. B. Duer, Asst. Engr., Pa. R. R., and *for mail*, 1041 Second Ave., Altoona, Pa.
- BUDD, Edward G. (1903), Pres., Edward G. Budd Mfg. Co., Ontario and I Sts., Philadelphia, and *for mail*, 502 Westview St., Germantown, Philadelphia, Pa.
- BUENSOD, A. C. (Associate-Member, 1915), Tobacco Spec., Carrier Engrg. Corp., 39 Cortlandt St., and 15 Wall St., New York, N. Y.
- BUENTING, Otto W. (1914), Genl. Supt., Westinghouse Air Brake Co., Wilmerding, and 910 Peebles St., Wilksburg, Pa.
- BUERGER, Charles B. (1916), Cons. Engr., Atlantic Refining Co., 3144 Passyunk Ave., Philadelphia, Pa.
- BUFFINGTON, Harry C. (Associate-Member, 1913), Mech. Draftsman, Minneapolis Steel & Mchy. Co., and *for mail*, 3021 Fremont Ave., S., Minneapolis, Minn.
- BUKER, Henry (1907), Brown & Sharpe Mfg. Co., and 395 Wayland Ave., Providence, R. I.
- BULKELEY, Claude A. (1909), M. and E. E., 8 W. 40th St., New York, N. Y.
- BULKLEY, J. Norman (1902), Cons. Engr., 120 Broadway, New York, N. Y.
- BULLARD, Dudley B. (1889), M. E., Supt., The Bullard Mch. Tool Co., and 2429 North Ave., Bridgeport, Conn.
- BULLARD, Edward P., Jr. (1913), Pres., Genl. Mgr., The Bullard Mch. Tool Co., Bridgeport, Conn.
- BULLARD, John E. (Associate, 1913), Mgr. New Business Dept., Pub. Serv. Corp. of L. I., and *for mail*, 14 Adams St., Port Washington, L. I., N. Y.
- BULLEN, Arthur C. (Junior, 1911), M. E., The Holly Sugar Co., Swink, Colo.
- BULLOCK, Edwin R. (1890; 1904), M. E., 38 Brook St., Pawtucket, R. I.
- BULLOCK, William E. (Associate-Member, 1913), Asst. Editor, Am. Soc. M. E., 29 W. 39th St., New York, and 26 Maxweber Ave., Jamaica, N. Y.
- BUMP, Archie E. (1908; 1915), Mgr. Constr. and Mech. Depts. East. Dist., Swift & Co., 60 N. Market St., Boston, and *for mail*, 39 Melville Ave., Dorchester, Mass.
- BUMP, Burton N. (1892; 1904), Engr. of Tests, Solvay Process Co., Syracuse, N. Y.
- BUNGE, Ralph W. (Junior, 1915), Peekskill, Fleishman Co., N. Y.
- BUNKER, Raymond U. (Junior, 1910), M. E., The Natl. Sugar Refining Co. of N. J., Yonkers, and 158 W. 58th St., New York, N. Y.
- BUNN, Frank W. (1894), Care of John A. Roebling's Sons Co., Trenton, N. J.
- BUNNEL, Sterling H. (1894; 1903), Engr-in-Ch., Griscom-Russell Co., 90 West St., and 519 W. 121st St., New York, N. Y.

- BUNTING, Charles A. deK. (Junior, 1914), Asst. Engr., Ill. Soldiers and Sailors Home, and *for mail*, 1229 Kentucky St., Quincy, Ill.
- BUNTING, Douglas (1902), Ch. Engr., Lehigh & Wilkes-Barre Coal Co., and *for mail*, 93 W. Union St., Wilkes-Barre, Pa.
- BUNTON, F. L. (1914), 4741 Sheridan Rd., Chicago, Ill.
- BURBANK, Louis S. (1898), Asst. Ch. Draftsman, M. E. Draper Co., and *for mail*, Hopedale, Mass.
- BURCH, H. Kenyon (1910), Ch. Engr., Inspiration Consld. Copper Co., Miami, Ariz.
- BURCHARD, Anson W. (1888; 1891), 57 E. 64th St., New York, N. Y.
- BURDICK, Ellsworth J. (1913), Supt. of Power, Detroit United Ry., Interurban Bldg., Detroit, Mich.
- BURDICK, Geo. S. (Associate-Member, 1914), Sales and Estimating Engr., Allis-Chalmers Mfg. Co., Milwaukee, and *for mail*, 57 Chestnut St., Wauwatosa, Wis.
- BURDSALL, Ellwood (Junior, 1880), Secy., Designing Engr., Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, Westchester Co., N. Y.
- BUREAU, Arthur A. (Junior, 1913), Salesman, W. J. Hartman Co., 306 S. Canal St., and 6434 Woodlawn Ave., Chicago, Ill.
- BURGAN, A. L. (1897; 1899; 1903), Mill Supt., Tamarack Min. Co., Osceola Consld. Mfg. Co., Ahmeek Min. Co., Hubbell, Mich.
- BURGES, Charles W. (1914), Supt., Yost Typewriter Wks., and *for mail*, 519 Laurel Ave., Bridgeport, Conn.
- BURGESS, A. Bradley (1910; Associate-Member, 1913), Pres., Genl. Mgr., Stand. Plunger Elev. Co., 243 Stafford St., and 124 Brookline St., Worcester, Mass.
- BURGESS, Chas. M. (1897), Life Member; 358 W. Main St., New Britain, Conn.
- BURGESS, Edward W. (Junior, 1908), Engrg. Dept., J. I. Case Threshing Meh. Co., and *for mail*, 317 Park View, Racine, Wis.
- BURGHARDT, Henry D. (1913), Instr. Charge Meh. Shops, Wm. L. Dickinson H. S., and *for mail*, 129 Sip Ave., Jersey City, N. J.
- BURGOON, Charles E. (1907), Ch. M. and E.E., Carbolite Chem. Co., (Tenn. Copper Co.), Copperhill, Tenn.
- BURHORN, Edwin (1914), Pres., Edwin Burhorn Co., 71 Wall St., New York, N. Y.
- BURKE, Albert G., Jr. (1913), Genl. Sales Mgr., Green Engrg. Co., 28 E. Jackson St., and Chicago Auto. Club, Chicago, Ill.
- BURKE, Walter S. (1913), Harvard College, and 15 Lake View Ave., Cambridge, Mass.
- BURKHOLDER, Charles I. (1912), Genl. Mgr., So. Power Co., Charlotte, N. C.
- BURLEIGH, Chas. B. (1905), Dist. Mgr. Ltg. Dept. Genl. Elec. Co., 81 State St., Boston, and 11 Oak Terrace, Malden, Mass.
- BURLEIGH, Perry G. (Junior, 1913), Oswego, N. Y.
- BURLEIGH, Robert B. (Associate-Member, 1914), Rep., Quality Saw & Tool Wks., Springfield, Mass., and *for mail*, Norwood Sta., Delaware Co., Pa.
- BURLEIGH, William F. (1905), Genl. Supt., Murphy Varnish Co., and 48 Milford Ave., Newark, N. J.
- BURLEIGH, William H. (Junior, 1911), Liberal, Kan.
- BURLEIGH, William S. (Junior, 1913), Inspr., Underwriters' Labs., 87 Milk St., Boston, and *for mail*, 107 W. Central St., Natick, Mass.
- BURLING, Herbert S. (Junior, 1913), Inspr. Exide Battery Depots, Inc., 527-541 W. 23d St., New York, N. Y., and *for mail*, 333 Springfield Ave., Summit, N. J.

- BURLINGAME, Luther D. (1903), Industrial Supt., Brown & Sharpe Mfg. Co., and *for mail*, 15 Catalpa Rd., Providence, R. I.
- BURLINGAME, Wm. B. (1906), Arecibo Ice & Soda Water Co., Inc., Arecibo, P. R., and 18 Linden St., Exeter, N. H.
- BURNELL, Alfred E. (Junior, 1915), Draftsman, Balbach Smelting & Refining Co., 580 Market St., and 177 Orchard St., Newark, N. J.
- BURNET, Edgar E. (1913), Judson Mfg. Co., 16th and Rhode Island Sts., San Francisco, Cal.
- BURNET, Tom (1915), Engr. in Charge, Bulawayo Waterworks Co., Ltd., P. O. Box 220, Bulawayo, Rhodesia, S. A.
- BURNETT, Earle S. (Associate-Member, 1913), Exper. Engrg., Hyd. Air-Compression; Research Engr., Precious Metals Tempering Co., Whitestone, L. I., N. Y. and *for mail*, 40 Danforth Ave., Jersey City, N. J.
- BURNETT, R. W. (1914), V.P., Natl. Car Equip. Co., 339 Ry. Exch., and 921 E. 44th St., Chicago, Ill.
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- BURNS, Homer S. (1911), M. E., Freeport Sulphur Co., Freeport, Tex., and 1535 Third Ave., Huntington, W. Va.
- BURPEE, Frank E. (1914), Prof. M. E., Bucknell Univ., Lewisburg, Pa.
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- CARPENTER, Harold (1908), Res. Engr. Astoria Tunnel, Astoria Light, Heat & Power Co., 132d St. and Locust Ave., and *for mail*, 977 Whitlock Ave., Hunts Point, New York, N. Y.
- CARPENTER, Henry A. (1893; 1899), V. P., Riter-Conley Mfg. Co., Leetsdale, and R. F. D. 3, Sewickley, Pa.
- CARPENTER, Horace (1912), M. E., Sanitary Dist. of Chicago, 700 Karpen Bldg., Chicago, Ill., and 257 Beale St., Wollaston, Mass.

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- CARPENTER, Ralph E. (Associate, 1913), Sales Mgr., Taft-Peirce Mfg. Co., and 93 Spring St., Woonsocket, R. I.
- CARPENTER, Randle C. (1912), Prof. M. E., Supt. Power Plant, Miss. Agri. and Mech. College, Agricultural College, Miss.
- CARPENTER, Raymond (1911), Ch. Engr. with Walter J. Jones, 30 Church St., New York, N. Y., and *for mail*, 385 Park Ave., East Orange, N. J.
- CARPENTER, Rolla C. (1883), Vice-President, 1908-1910; Cons. Engr., Prof. Exper. Engrg., Sibley College, Cornell Univ., and 125 Eddy St., Ithaca, N. Y.
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- CARRIER, Willis H. (1905; 1912), Ch. Engr., Buffalo Forge Co., V. P., Cons. Engr., Carrier Air Conditioning Co., 490 Broadway, and *for mail*, 1350 Amherst St., Buffalo, N. Y.
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- CHASE, Leon W. (1907; 1912), Head Prof. Agri. Engrg., Univ. of Neb., Univ. Farm, and 1245 N. 33d St., Lincoln, Neb.
- CHASTENEY, Charles D. (Junior, 1904), Asst. Mgr., M. E., Louis Dejonge Co., and *for mail*, 170 Prichard St., Fitchburg, Mass.
- CHATARD, Wm. M. (1903; 1909), Mem. of Firm, Chatard & Norris, 304 Continental Bldg., Baltimore, Md.
- CHEETHAM, Joseph H. (Junior, 1913), M. E., McNab & Harlin Mfg. Co., Paterson, and 128 Union Ave., Clifton, N. J.
- CHEEVER, Markham (1910), Ch. Engr., Utah Power & Light Co., Kearns Bldg., and 1156 First Ave., Salt Lake City, Utah.
- CHENEY, Frank, Jr. (1915), Pres., Cheney Bros., South Manchester, Conn.
- CHENEY, H. W. (1897; 1905), Engr. Elec. Dept., Allis-Chalmers Mfg. Co., and *for mail*, 284 31st St., Milwaukee, Wis.
- CHENEY, Nathan (1906), Engr., Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass.
- CHENEY, Walter L. (1883), Sales Mgr., Lucas Mch. Tool Co., Cleveland, O.
- CHESNUTT, Ralph C. (Junior, 1915), Auto. Drafting Dept., Packard Motor Car Co., and *for mail*, 1562 Iroquois Ave., Detroit, Mich.
- CHESS, Harvey B., Jr. (1909; Associate-Member, 1914), Pres., The Consltd. Expanded Metal Cos., Braddock, and 2030 Beechwood Blvd., Pittsburgh, Pa.
- CHESTER, C. P. (Associate, 1908), Stone & Webster Engrg. Corp., Box 691, Galveston, Tex.
- CHESTER, John N. (1905), Chester & Fleming, Union Bank Bldg., Pittsburgh, Pa.
- CHESTER, Thomas (1915), Ch. Engr., Am. Blower Co., and *for mail*, 20 Alfred St., Detroit, Mich.
- CHEVALIER, La Rue B. (1914), Supt., United Iron Wks. Co., Iola, Kan.
- CHEYNEY, Algernon R. (1912), Pinellas Park, Pinellas Co., Fla.
- CHILD, Earnest T. (1903), Pres., Child & Scott Co., 112 Wooster St., New York, N. Y., and *for mail*, 70 Mt. Pleasant Ave., West Orange, N. J.
- CHILD, Stanley G. (1912), Foreman Mch. Shop, Baldwin Loco. Wks., and *for mail*, 1726 Spring Garden St., Philadelphia, Pa.
- CHILDS, Harold P. (Junior, 1903), Spec. Rep., Westinghouse Mch. Co., 165 Broadway, New York, and 149 Center St., Orange, N. J.
- CHILDS, John N. (Associate-Member, 1914), Mgr., Fred M. Prescott Steam Pump Co., 510 Mills Bldg., and 1138 E. Nevada St., El Paso, Tex.
- CHISHOLM, John J. (Associate, 1904), Supt. of Power, Tenn. Coal, Iron & R. R. Co., and 1823 29th St., Ensley, Ala.
- CHOATE, William E. (1912), Genl. Mgr., The Advance Mch. Co., 21 Bromfield St., Boston, and Asbury St., South Hamilton, Mass.
- CHORLTON, Alan E. L. (1918), Engrg. Mgr., Ruston Proctor & Co., Ltd., Sheaf Iron Wks., Lincoln, England.
- CHOWINS, Chas. E. (Associate, 1906), Supt. Bldgs., Grounds and Constr., Univ. of Neb., and 1802 Washington St., Lincoln, Neb.
- CHRISTEN, Armand B. (Junior, 1913), Engr., West Elec. Co., 463 West St., and *for mail*, 616 W. 137th St., New York, N. Y.
- CHRISTENSEN, Chas. C. (1890), Estimating Engr., Allis-Chalmers Mfg. Co., and *for mail*, 2944 Logan Blvd., Chicago, Ill.
- CHRISTIANSON, Andrew (1907), Ch. Engr. Engrg. Dept., Stand. Steel Car Co., and 108 W. Pearl St., Butler, Pa.

- CHRISTIE, Alexander G. (Associate, 1907), Assoc. Prof. M. E., Johns Hopkins Univ., Baltimore, Md.
- CHRISTIE, E. W. (1890), M. E., Wheeler Cond. & Engrg. Co., Carteret, and *for mail*, P. O. Box 74, Sewaren, N. J.
- CHRISTIE, William W. (1889), Cons. Engr., Citizens' Trust Co. Bldg., and *for mail*, 527 14th Ave., Paterson, N. J.; also, 177 Broadway, New York, N. Y.
- CHURCH, Austin (Junior, 1895), Pres., Church Quarry Co., Sibley, Mich.
- CHURCH, Edwin F., Jr. (1912), Prof. Mch. Design and Constr., W. Va. Univ., Morgantown, W. Va.
- CHURCH, Elihu C. (1908; 1913), Cons. Engr., 4 E. 130th St., New York, N. Y.
- CHURCH, Harold D. (1913), Truck Engr., Packard Motor Car Co., Detroit, Mich.
- CHURCH, Maynard D. (1912), Asst. Engr., Terry Steam Turbine Co., and *for mail*, 475 Edgewood St., Hartford, Conn.
- CHURCH, William L. (1880), Manager, 1884-1887; Cons. Engr., William Andrews, Inc., 120 Liberty St., New York, N. Y., and 583 Central Ave., East Orange, N. J.
- CHURCHILL, Charles O. (1906), Salesman, Lackawanna Steel Co., 40 Central St., Boston, and *for mail*, 16 Woodside Terrace, Springfield, Mass.
- CHUTE, James P. (1912), Supt. Floating Equip., Jay Street Term., and *for mail*, 635-11th St., Brooklyn, N. Y.
- CHUTE, Stanley J. (Junior, 1915), Asst. to M. E., Pa. Coal & Coke Corp., 17 Battery Pl., New York, and *for mail*, 635 11th St., Brooklyn, N. Y.
- CILLEY, Raymond (1915), Crown Cork & Seal Co., and *for mail*, 5210 Palmer Ave., Arlington Sta., Baltimore, Md.
- CLAPP, Geo. H. (1891), Cor. 7th and Bedford Aves., Pittsburgh, and Edgeworth, Pa.
- CLAPP, Richard B. (Junior, 1914), Sales Engr., City Garage, 1018 Morton St., and *for mail*, 108 W. Saratoga St., Baltimore, Md.
- CLAPP, Will H. (1914), Assoc. Prof. Mch. Design and Mechanism, Throop College of Tech., Pasadena, Engr., with Geo. A. Damon, Pac. Coast Rep. of Bion J. Arnold Co., Los Angeles, Cal.
- CLARK, Addison L. (1915), Supt. West. Foundries, Am. Brake Shoe & Fdy. Co., 1414 McCormick Bldg., Chicago, and La Grange, Ill.
- CLARK, Albert B. (1916), Efficiency Engr. Fisk and Quarry St. Stas., Commonwealth Edison Co., 22d and Fisk Sts., Chicago, Ill.
- CLARK, Charles P. (Junior, 1912), Clark & Norton Mfg. Co., Wellsville, N. Y.
- CLARK, David B. (1914), Providence Engrg. Wks., Providence, R. I., and 94 School St., Webster, Mass.
- CLARK, Dean (1912), Wks. Mgr., South Bend Watch Co., South Bend, Ind.
- CLARK, Edward H. (Junior, 1914), First Asst. Engr. Bldg. and Power Dept., Mass. Inst. of Tech., Boston, and *for mail*, 163 Woodside Ave., Winthrop, Mass.
- CLARK, Edward L. C. (1914), Asst. to Genl. Mgr., N. E. Westinghouse Co., and 169 Maple St., Springfield, Mass.
- CLARK, Edward Lord (Associate, 1905), Boston Mgr., Westinghouse Mch. Co., 201 Devonshire St., Boston, and 40 Griggs Rd., Brookline, Mass.
- CLARK, Farley G. (1907), Ch. Engr., Toronto Power Co., Toronto Elec. Light Co., Toronto St. Ry. Co., and *for mail*, 12 Adelaide St., E., Toronto, Ont., Canada.
- CLARK, Frank C. (1913), Supt. Pac. Locks, The Panama Canal, Pedro Miguel, Canal Zone.
- CLARK, Frank D. (1914), P. O. Box 567, Hicksville, L. I., N. Y.

- CLARK, Frank H. (1910), Genl. Supt. M. P., B. & O. R. R., Baltimore, Md.
- CLARK, Frank S. (1909; 1912), Engr., Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass.
- CLARK, Herbert H. (1908), Mgr., Chas. C. Moore & Co. Engrs., 424-425 I. N. Van Nuys Bldg., and 85 Victoria Park, Los Angeles, Cal.
- CLARK, Howard B. (1910), East Rep., The McNaull-Boiler Mfg. Co. of Toledo, O., 611 W. 137th St., New York, N. Y.
- CLARK, Lawrence A. (1914), Secy., Treas., Archer Iron Wks., 2438 W. 34th Pl., and *for mail*, 71 E. 46th St., Chicago, Ill.
- CLARK, Myron H. (1913), 1790 Broadway, New York, N. Y.
- CLARK, Peter J. (Associate-Member, 1915), Draftsman, Bureau of Fire Alarm Telegraph, Fire Dept., New York, and *for mail*, 157 Willoughby Ave., Brooklyn, N. Y.
- CLARK, W. Van Alan (Junior, 1910), The Brooklyn Union Gas Co., foot of N. 12th St., Brooklyn, N. Y.
- CLARK, Walter L. (1888), Westinghouse Elec. & Mfg. Co., 165 Broadway, New York, N. Y.
- CLARK, Walter R. (1908; 1914), M. E., Bridgeport Brass Co., and *for mail*, 1875 Park Ave., Bridgeport, Conn.
- CLARK, Walton (1890), Second V. P., United Gas Improvement Co., Broad and Arch Sts., and Chestnut Hill, Philadelphia, Pa.
- CLARK, William C. M. (1913), M. E., Rockefeller Bldg., and *for mail*, 1344 E. 85th St., Cleveland, O.
- CLARK, William E. (Associate-Member, 1914), Prin., Beach Manual Training Sch., Oshkosh, Wis.
- CLARK, William F. (Junior, 1914), Htg. and Vent. Engr., State Arch's. Office, and *for mail*, Apt. 4-K, 175 Jay St., Albany, N. Y.
- CLARK, William T. (1914), Genl. Mgr., Automatic Meh. Products Co., Bush Terminal Bldg., Brooklyn, N. Y.
- CLARKE, Alfred (1886), Walpole, N. H.
- CLARKE, Arthur F. (Associate, 1913), Priest, Page & Co., 145 Franklin St., Boston, and *for mail*, 5 Douce St., Brookline, Mass.
- CLARKE, C. Edwin (Junior, 1912), M. M. Steel Plant and Mills Cambria Wks., Cambria Steel Co., and *for mail*, 115 Venango St., Johnstown, Pa.
- CLARKE, Charles L. (1882), Cons. Engr., Genl. Elec. Co., and 109 Glenwood Blvd., Schenectady, N. Y.
- CLARKE, Charles W. E. (1907; 1913), M. E., Stone & Webster Engrg. Corp., 147 Milk St., Boston, and *for mail*, 197 Rawson Rd., Brookline, Mass.
- CLARKE, Edgar W. (1914), Ch. Engr., Cambria Steel Co., and *for mail*, 130 Tioga St., Johnstown, Pa.
- CLARKE, Leon L. (1912), Rm. 10, 106 N. La Salle St., Chicago, Ill.
- CLARKE, Philip L. (Junior, 1907), E. E., Violet Sugar Co., Aguada de Pasajeros, Province de Santa Clara, Cuba, and 3017 Kansas Ave., Los Angeles, Cal.
- CLARKE, Samuel J. (1884), 51 Wall St., and *for mail*, 309 W. 103d St., New York, N. Y.
- CLARKE, Walter J. (1914), Phila. Mgr., L. Sonneborn Sons, Inc., 421 Lafayette Bldg., and 1250 S. 45th St., Philadelphia, Pa.
- CLARKSON, Ralph P. (Associate-Member, 1915), Prof. Engrg., Acadia Univ., Wolfville, N. S., Canada.
- CLASSEN, Edward H. (Junior, 1912), The Am. Appraisal Co., Milwaukee, Wis.
- CLAYTON, J. Paul (Junior, 1911), Mgr. Commer. Dept., Central Ill. Pub. Serv. Co., and *for mail*, 3108 Prairie Ave., Mattoon, Ill.

- CLEGG, Robert I. (1902), Editor, V. P., *Wood Craft*, and *Castings*, Gardner Ptg. Co., Caxton Bldg., and 10,600 Hampden Ave., Cleveland, O.
- CLEGHORN, Mark P. (1914), Assoc. Prof. M. E., Ia. State College, 513 Ash Ave., Ames, Ia.
- CLEMENS, A. B. (1904), Prin. Sch. M. E., Internatl. Corr. Schs., and 1034 Woodlawn St., Scranton, Pa.
- CLERGUE, Bertrand J. (Associate, 1907), Canadian Express Bldg., Montreal, Que., Canada.
- CLEVELAND, Fred P. (Associate-Member, 1914), Secy., Treas., B. F. Perkins & Son, Inc., and *for mail*, 62 Taylor St., Holyoke, Mass.
- CLIFFORD, Ernest L. (1914), 803 Lake Ave., Wilmette, Ill.
- CLIFFORD, Oliver C. (1903), Assoc. Prof. E. E., Armour Inst. of Tech., 33d and Federal Sts., and *for mail*, 6053 Woodlawn Ave., Chicago, Ill.
- CLOUD, John W. (1880), V. P., West. B. Co., Ltd., 82 York Rd., King's Cross, London, N., England.
- CLOUDSLEY, David B. (Associate, 1908), Asst. to Ch. Engr., Bureau of Water, Dept. of Pub. Wks., and *for mail*, 903 Niagara St., Buffalo, N. Y.
- CLOUDSLEY, James B. (1892), Ch. Engr. Pumping Steam Power, Bureau of Water, and *for mail*, 903 Niagara St., Buffalo, N. Y.
- CLOUSER, George L. (Junior, 1913), Draftsman, Baldwin Loco. Wks., 500 N. Broad St., and *for mail*, 2125 Park Ave., Philadelphia, Pa.
- CLUCAS, George W. (Associate-Member, 1915), Engr., Am. Steam Pump Co., Secy., Stannard Power Equip. Co., 1220 Monadnock Bldg., Chicago, Ill.
- CLUETT, Albert E. (1900; 1903), M. E., Cluett Peabody & Co., and *for mail*, P. O. Box 666, Troy, N. Y.
- CLUETT, Sanford L. (1903; 1911), First V. P., Secy., Walter A. Wood Mowing & Reaping Mch. Co., Hoosick Falls, N. Y.
- CLYNE, Robert G. (1913), Mgr., The West. Cartridge Co., and *for mail*, 2400 Edward St., Alton, Ill.
- COATES, E. Osborne (Junior, 1913), Riverview Club House, Penns Grove, N. J.
- COBB, Charles C., Jr. (Junior, 1912), Asst. to M. E., Natl. Tube Co., and *for mail*, 233 Dwight St., Kewanee, Ill.
- COBB, Geo. H. (1891), V. P., Genl. Mgr., N. Y. Transit Co., 802 Kilmer Bldg., and 193 Front St., Binghamton, N. Y.
- COBB, Willard H. (Junior, 1912), Mfg. Dept., N. Y. Belting & Packing Co., 91 Chambers St., New York, and Babylon, N. Y.
- COBLEIGH, Henry R. (Junior, 1904), Managing Editor, Power, 10th Ave. and 36th St., New York, and 505 E. 8th St., Brooklyn, N. Y.
- COBURN, Frederic G. (1912; 1913), Naval Constr., U. S. N., U. S. Navy Yard, Boston, Mass.
- COBURN, Howard L. (1901), Secy., Ch. Engr., Ambursen Co., 61 Broadway, and *for mail*, 52 Irving Pl., New York, N. Y.
- COBURN, R. G. (Junior, 1901), 19 S. Central St., Chanute, Kan.
- COCHRANE, Robert B. (1908), 555 Frost Ave., Rochester, N. Y.
- COCKBURN, Francis B. (1910), Ch. Draftsman, Lodge & Shipley Mch. Tool Co., 3055 Colerain Ave., and 4225 Brookside Ave., Cincinnati, O.
- COCKS, Frank L. (Associate-Member, 1913), Spec. Mch. Designer, Arbuckle Bros., foot of Jay St., Brooklyn, and *for mail*, Sea Cliff, L. I., N. Y.
- COE, Harry L. (Associate-Member, 1915), M. E., Mem. of Firm, Harpham, Barnes & Stevenson Co., Rm. 615, 79 Milk St., Boston, Mass.
- COE, Ralph T. (Associate-Member, 1914), Dist. Mgr., Am. Blower Co., Warren Webster & Co., 519 Insurance Bldg., and 295 Sherwood Ave., Rochester, N. Y.

- COES, Harold V. (1907; 1913), V. P., Genl. Mgr., The Sentinel Mfg. Co., Drawer 37, and *for mail*, Route 58, New Haven, and 101 Davis St., Whitneyville, Conn.
- COFFIN, Frank M. (1907), Supt., Wheeler-McDowell Elev. Co., 417-421 Canal St., and *for mail*, 272 Manhattan Ave., New York, N. Y.
- COFFIN, Howard E. (1907), V. P., Hudson Motor Car Co., Detroit, and Grosse Pointe Shores, Mich.
- COFFIN, Mitchell (Junior, 1913), S. M. Ryder & Son, Niagara Falls, N. Y.
- COFFIN, Wm. C. (1894), Struc. Engr., Jones & Laughlin Steel Co., and *for mail*, 5930 Howe St., Pittsburgh, Pa.
- COFFMAN, Joseph P. (1914), Genl. Supt., Natl. Transit Co. Shops, and *for mail*, 207 Lincoln St., Oil City, Pa.
- COGHLIN, John P. (1901), Pres., Treas., Coghlin Elec. Co., 257 Main St., and *for mail*, Box 35, Worcester, Mass.
- COGSWELL, Wm. B. (1880), Manager, 1880-1882; V. P., Managing Dir., The Solvay Process Co., and 1234 James St., Syracuse, N. Y.
- COHEN, Abraham S. (Associate-Member, 1915), M. E., C. L. Howes, 514 Atlantic Ave., Boston, and *for mail*, 24 Canterbury St., Dorchester, Mass.
- COKER, James L., Jr. (1915), V. P., Carolina Fiber Co., Hartsville, S. C.
- COLBY, Albert L. (1893), Cons. Engr., Iron, Steel and Fuel Metallurgist, 447 Lehigh St., South Bethlehem, Pa., and 165 Broadway, New York, N. Y.
- COLDWELL, John S. (Junior, 1915), Spec. Organizing Wk. for Wks. Mgr., Alberger Pump & Cond. Co., and *for mail*, 44 Carson Ave., Newburgh, N. Y.
- COLE, Arthur W. (1904; 1911), Assoc. Prof. M. E., Purdue Univ., Lafayette, and *for mail*, 224 Waldron St., West Lafayette, Ind.
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- COLE, Charles S. (1912), Secy., Treas., Columbia Steel Co., Pittsburg, Cal.
- COLE, Dwight S. (1903), Mech. Expt., Solicitor of Patents, 623 Ashton Bldg., and *for mail*, 241 Lafayette Ave., S. E., Grand Rapids, Mich.
- COLE, Edward S. (1897; 1906), Pres., Mgr., The Pitometer Co., 25 Elm St., New York, N. Y., and 133 Bellevue Ave., Upper Montclair, N. J.
- COLE, Francis J. (1888), Ch. Cons. Engr., Am. Loco. Co., and *for mail*, 3 Avon Rd., Schenectady, N. Y.
- COLE, Frank B. (1912), Ch. Engr., R. & D. Cole Mfg. Co., and 79 E. Broad St., Newnan, Ga.
- COLE, Fred B. (1911), Prin. Asst. Engr., Chas. T. Main, 201 Devonshire St., Boston, Mass.
- COLE, J. Wendell (1883), Dist. Mgr., William Sellers & Co.'s Tool and Drill Grinders, and Detroit Emery Wheel Co., P. O. Box 84, Columbus, and *for mail*, Linworth, O.
- COLE, Winthrop (1891; 1904), M. E. Engrg. Exper. Sta., U. S. Naval Acad., and 217 Hanover St., Annapolis, Md.
- COLEMAN, Robert J. (Junior, 1914), Mgr., Ames Iron Wks., 820 Commercial Trust Bldg., Philadelphia, and *for mail*, 6336 Sherman St., Germantown, Philadelphia, Pa.
- COLEMAN, William W. (1908), Pres., Bucyrus Co., South Milwaukee, and *for mail*, 323 Juneau Ave., Milwaukee, Wis.
- COLLAMORE, Ralph (1914), Cons. Engr., Smith, Hinchman & Grylls, 710 Washington Arcade Bldg., Detroit, Mich.
- COLLES, Geo. W. (1895; 1901), Cons. E. and M. E., 301 Kress Bldg., Houston, and *for mail*, Rosharon, Tex.
- COLLETT, S. D. (1902), V. P., Elev. Supply & Repair Co., 105 W. 40th St., New York, and *for mail*, 365 Sterling Pl., Brooklyn, N. Y.

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- COLLINS, B. R. T. (1891; 1901), Ch. Engr., Spray Engrg. Co., 93 Federal St., Boston, and *for mail*, 29 Oxford Rd., Newton Centre, Mass.
- COLLINS, Francis A., Jr. (Junior, 1910), Sales Dept., Auburn Ball Bearing Co., 29 Elizabeth St., and *for mail*, 236 Rosedale St., Rochester, N. Y.
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- COLLINS, Hubert E. (1915), Cons. Engr., 132 Boyce Ave., Utica, N. Y.
- COLLINS, Richard C. (Associate-Member, 1914), Mech. Supt., Chelsea Fibre Mills, 1155 Manhattan Ave., and 66 Orange St., Brooklyn, N. Y.
- COLLISON, Thomas A. (1915), M. E., Mt. Vernon Car Mfg. Co., Mt. Vernon, Ill.
- COLLISTER, George F. (1915), Mgr. Crucible and Alloy Steel Sales, The Betz Pierce Co., 2230 E. 9th St., Cleveland, O.
- COLMAN, Howard D. (1912), Mem. of Firm, Barber-Colman Co., Rockford, Ill.
- COLPITTS, James V. (Junior, 1913), Power Plant Equip., 27 S. 18th St., and 3726 Spring Garden St., Philadelphia, Pa.
- COLVIN, Fred H. (1895; 1899), Managing Editor, Am. Machinist, 10th Ave. and 36th St., New York, N. Y., and *for mail*, 56 N. Maple Ave., East Orange, N. J.
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- COLWELL, James V. V. (1903), Life Member; Equip. Engr., 30 Church St., and *for mail*, 1765 Sedgwick Ave., New York, N. Y.
- COMLY, G. Norwood (1905; 1907), Soda Ash Dept., Solvay Process Co., Syracuse, N. Y.
- COMLY, Geo. N. (1880), 1816 W. Genesee St., Syracuse, N. Y.
- COMPTON, Robert W. (Associate, 1913), So. Rep., Hooven, Owens, Rentschler Co., 1528 Candler Bldg., and 548 N. Blvd., Atlanta, Ga.
- COMSTOCK, Charles Warren (Associate, 1906), Genl. Agt., Continental Casualty Co., 300-301 Central Bldg., Los Angeles, Cal.
- COMSTOCK, Charles Worthington (1908), Engrg. Mgr., The Goldsborough Co., 514 First Natl. Bank Bldg., and 76 Grant St., Denver, Colo.
- COMSTOCK, Louis K. (1902), Pres., L. K. Comstock & Co., Inc., 30 Church St., New York, N. Y., and *for mail*, 195 Fernwood Ave., Upper Montclair, N. J.
- CONANT, Wm. S. (1895; 1904), Cons. Engr., Bank Chambers, 80 Griswold St., and *for mail*, 186 Seminole Ave., Detroit, Mich.
- CONARD, Frederick U. (Junior, 1916), Jennings Lace Wks., Park Ave. and Hall St., and *for mail*, 361 Washington Ave., Brooklyn, N. Y.
- CONARD, Wm. R. (Associate, 1906), Inspec. Engr., Savings Institution Bldg., and 1104 High St., Burlington, N. J.
- CONE, Hutchinson I. (1910), Commander U.S.N., U.S.S. Dixie, care of Postmaster, New York, N. Y.
- CONKLIN, Harry R. (1915), Min. and E. E., 104 E. 15th St., Joplin, Mo.
- CONLEE, George D. (1906; 1914), Supt., The Chuctanunda Gas Light Co., 33 Market St., and 20 Grant Ave., Amsterdam, N. Y.
- CONNELL, John J. (1903), New Berlin, N. Y.
- CONNELLY, Laurence E. (Associate, 1915), V. P., The D. Connelly Boiler Co., Cleveland, O.
- CONNELLY, William C. (Associate, 1915), Pres., The D. Connelly Boiler Co., Cleveland, O.
- CONNER, B. Franklin, Jr. (Junior, 1915), 106 Barbey St., Brooklyn, N. Y.
- CONNET, Frederick N. (1908), Ch. Engr., Sales Mgr. Venturi Meter Dept., Builders Iron Fdy., and 67 Whitmarsh St., Providence, R. I.

- CONNETT, Lyndon R. (Junior, 1898), 30 Church St., and 59 E. 65th St., New York, N. Y.
- CONNOLLY, James H. (1913; 1913), M. E., Remington Arms & Ammunition Co., and *for mail*, 528 Clinton Ave., Bridgeport, Conn.
- CONNON, George W. (1907), Engr., Honolulu Iron Wks. Co., 29 Broadway, New York, N. Y., and 174 Watchung Ave., Montclair, N. J.
- CONNOR, Herbert R. (Junior, 1913), M. E., Meese & Gottfried Co., San Francisco, and *for mail*, 1634 San Antonio Ave., Alameda, Cal.
- CONRAD, Ernest B. (1903), Supt., Elec. Launch Co., and *for mail*, 127 Humphreys Ave., Bayonne, N. J.
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- CONRADER, Rudolph (1893), 708 Parade St., Erie, Pa.
- CONRAN, Fred M. (Associate-Member, 1914), Supt., The Torrington Mfg. Co., 70 Franklin St., and *for mail*, 37 E. Elm St., Torrington, Conn.
- CONRATH, George B. (1907), Genl. Mgr., Nagle Corliss Eng. Wks., and *for mail*, 443 E. 6th St., Erie, Pa.
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- CONSTANTINE, Joseph H. (1913), Instr. Industrial Arts, Teachers College, Columbia Univ., New York, N. Y.
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- CONVERSE, Bernard T. (1909), Engr. of Plant, Baldwin Loco. Wks., 500 N. 15th St., Philadelphia, and Rosemont, Pa.
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- COOK, Henry P. (Junior, 1914), Production Dept., Babcock & Wilcox Co., Bayonne, and *for mail*, 75 Lenox Ave., East Orange, N. J.
- COOK, J. F. (1902), Cons. M. E., S. Neuman & Co., The Consld. Mines Selec. Co., Ltd., 54 Cullinan Bldg., and *for mail*, P. O. Box 485, Johannesburg, S. A.
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- COOK, Robertson (1914), Prof. Exper. Engrg., S. D. State College, Brookings, S. D.
- COOK, Thomas R. (1911), Ch. Engr., Willard Storage Battery Co., Cleveland, O.
- COOK, William H. (Junior, 1910), Andrew J. Robinson Co., 123 E. 23d St., New York, N. Y., and *for mail*, 20 Vinton Rd., Madison, N. J.
- COOK, Wm. P., Jr. (1911; Associate-Member, 1913), Asst. to Ch. M. E., Thompson-Starrett Co., 51 Wall St., New York, and Bright-Waters, L. I., N. Y.
- COOKE, Fred W. (1903), 384 Broadway, Paterson, N. J.

- COOKE, George W. (1907), Supt., Pierce Arrow Motor Car Co., 1695 Elmwood Ave., and *for mail*, 100 Parkdale Ave., Buffalo, N. Y.
- COOKE, Harte (1897), M. E., McIntosh & Seymour Co., and *for mail*, 10 Jefferson St., Auburn, N. Y.
- COOKE, Horace G. (1914), East. Mgr., The Connersville Blower Co., 114 Liberty St., New York, N. Y.
- COOKE, Morris Llewellyn (1903; 1909), Manager, 1914-1915; Cons. Engr. in Management, Acting Dir., The Utilities Bureau, 1009 Finance Bldg., Philadelphia, and *for mail*, 401 W. Walnut Lane, Germantown, Philadelphia, Pa.
- COOKE, Thomas F. (Junior, 1904), Asst. Secy., Charity Organization Soc., 181 Franklin St., and 618 Delaware Ave., Buffalo, N. Y.
- COOLEY, Erwin S. (1910), Dist. Mgr. Power Apparatus, B. F. Sturtevant Co., 52 Vanderbilt Ave., New York, and Mersereau Ave., Mt. Vernon, N. Y.
- COOLEY, Hugh N. (Associate, 1910), 3414 Cedar St., Milwaukee, Wis.
- COOLEY, M. E. (1884), Vice-President, 1901-1903; Dean Depts. Engrg. and Arch., Univ. of Mich., and 1405 Hill St., Ann Arbor, Mich.
- COON, J. S. (1880), Prof. M. E., Supt. Shops, Ga. Sch. of Tech., and 26 Kimball St., Atlanta, Ga.
- COON, Thurlow E. (1908; 1914), M. E., The Coon-DeVisser Co., 1924-1925 Ford Bldg., and 196 Edison Ave., Detroit, Mich.
- COONEY, James L. (Associate-Member, 1915), Supt., Internatl. Salt Co., Myers, and 105 N. Aurora St., Ithaca, N. Y.
- COOPER, Elisha H. (Associate, 1915), Treas., Fafnir Bearing Co., and *for mail*, 169 Vine St., New Britain, Conn.
- COOPER, Ellis W. (1912), 1264 Amsterdam Ave., New York, N. Y.
- COOPER, Eugene S. (Junior, 1912), Draftsman Invention Dept., Natl. Cash Register Co., and *for mail*, 233 Chestnut St., Dayton, O.; also, 77 W. Muskegon Ave., Muskegon, Mich.
- COOPER, Frederick F. (1914), Genl. Mgr., Golden State & Miners' Iron Wks., 249 First St., and *for mail*, 316 Laurel St., San Francisco, Cal.
- COOPER, Geo. S. (1909), M. E., Buckeye Eng. Co., Salem, O.
- COOPER, Henry R. (1890; 1895), Solvay Process Co., and *for mail*, 1921 W. Genesee St., Syracuse, N. Y.
- COOPER, Howell C. (1912), 667 Mulberry St., Clarksburg, W. Va.
- COOPER, Hugh L. (1913), Cons. Engr., 101 Park Ave., New York, N. Y.
- COPE, Robert H. (Junior, 1912), Sales Engr., Taylor-Wharton Iron & Steel Co., 45 Bromfield St., Boston, and 47 Dunster Rd., Jamaica Plain, Mass.
- COPELAND, Frederick K. (1914), Pres., Sullivan Mchy. Co., 122 S. Michigan Ave., Chicago, Ill.
- COPELAND, Stuart B. (Junior, 1913), Mech. Supt., Katahdin Pulp & Paper Co., Lincoln, Me.
- COPLAND, Alexander W. (1913), Pres., Genl. Mgr., Detroit Gear & Mch. Co., and *for mail*, 127 Franklin St., Detroit, Mich.
- COPP, Wayland J. (Junior, 1912), Safety Inspr., 4246 N. Hermitage Ave., Chicago, Ill.
- COPPAGE, B. Denver (1915), Ch. Engr., The Pusey & Jones Co., and *for mail*, 14 Willard St., Wilmington, Del.
- CORBETT, Melvin C. (Junior, 1915), Spencer Heater Co., and *for mail*, 419 Washington Ave., Scranton, Pa.
- CORBETT, R. H. (1904), 335 Hartford Ave., Milwaukee, Wis.
- CORBIN, Albert F. (1913), Pres., Union Mfg. Co., and *for mail*, 99 Vine St., New Britain, Conn.

- CORDES, Paul H. (Junior, 1914), Engrg. Salesman, Internatl. Steam Pump Co., 810 Old Colony Bldg., Chicago, Ill.
- CORE, W. Wallace (1907; 1914), 123 N. 4th St., Newark, N. J.
- COREY, Fred B. (1894; 1900), Cons. Engr., 404 Arrott Bldg., Pittsburgh, and 245 Maple Ave., Edgewood Park, Pa.
- CORLETTE, Glen H. (Junior, 1910), Engr., Fairbanks, Morse & Co., 614 Calle Venezuela, Buenos Aires, Argentina, S. A.
- CORNELIUS, Henry R. (1888), Sales Engr., Mesta Mch. Co., and Darlington Rd., Pittsburgh, Pa.
- CORNISH, William R. (Junior, 1913), The Minn. Steel Co., 808 Wolvin Bldg., Duluth, Minn.
- CORNWELL, Hobart V. (Junior, 1915), Asst. to Mech. Engr., Pa. Coal & Coke Corp., 17 Battery Pl., New York, and *for mail*, 152 Greenwich St., Hempstead, L. I., N. Y.
- CORP, Charles I. (1904; 1915), Assoc. Prof. Hyd. Engrg., Univ. of Wis., Hyd. Lab., and 2114 W. Lawn Ave., Madison, Wis.
- CORREA, William H. (Junior, 1910), L. I. Refinery, Stand. Oil Co. of N. Y., West Ave. and 10th St., Long Island City, N. Y.
- CORRY, Wm. (1890), V. P., Chrome Steel Wks., 11 Pine St., New York, N. Y.
- CORY, George J., Jr. (Junior, 1912), Instr. Fdy. Wk., Pratt Inst., Brooklyn, N. Y., and *for mail*, 614 Summer Ave., Newark, N. J.
- CORY, Harry T. (1893; 1905), Cons. Engr., 802 Nevada Bank Bldg., and 1060 Bush St., San Francisco, Cal.
- COSTER, Edward L. (Associate, 1896), Life Associate; 25 Broad St., New York, and *for mail*, Katonah, N. Y.
- CÖSTER, Eric H. (1910), Engr., E. I. du Pont de Nemours & Co., and *for mail*, 1066 N. Franklin St., Wilmington, Del.
- COSTER, Maurice (1904), Managing Dir., Westinghouse Elec. Export Co., 165 Broadway, and 350 W. 85th St., New York, N. Y.
- COTTMAN, Lewis W. (1912), Supt., Ch. Engr., The Palmetto Phosphate Co., Keyser Bldg., and *for mail*, P. O. Box 782, Baltimore, Md.
- COTTON, Geo. G. (1902), Supt. Constr., Solvay Process Co., Syracuse, and *for mail*, Fairmount, Camillus P. O., N. Y.
- COUCH, A. D. (Junior, 1915), Boiler House Supvr., Hercules Powder Co., Kenil, and *for mail*, Hotel Dover, Dover, N. J.
- COULTER, James (1913), V. P., The Automatic Mch. Co., Bridgeport, Conn., Providence Engrg. Wks., Providence, R. I., and 51 Hough Ave., Bridgeport, Conn.
- COURTENAY, Charles R. (1914), Ch. Draftsman, N. Y. Eng. Co., and *for mail*, 351 Arsenal St., Watertown, N. Y.
- COUSINS, George T. (1915), M. E. Rock Drill Dept., Ingersoll-Rand Co., 11 Broadway, New York, and *for mail*, 31 Boulevard, New Rochelle, N. Y.
- COUTANT, Jay G. (1913; 1916), Cons. Engr., 140 Park Pl., Schenectady, N. Y.
- COVE, James R. (Associate-Member, 1915), M. M., Mass. Cotton Mills, Lowell, Mass.
- COVELL, Harry N. (1891), Supt., Lidgerwood Mfg. Co., Dikeman St., and 7 E. 19th St., Brooklyn, N. Y.
- COWELL, Wm. A. (Junior, 1913), 29 Morris St., Auburn, N. Y.
- COWEN, Harry (Junior, 1913), Asst. in Office Engr. Car Equip., I. R. T. Co., 98th St. and 3d Ave., and *for mail*, 999 Aldus St., New York, N. Y.
- COWPERTHWAIT, Allan (Junior, 1899), A. B. See Elec. Elev. Co., 220 Broadway, New York, N. Y., and Hyewood Park, Plainfield, N. J.
- COX, Abraham B. (1914), Asst. Engr., Genl. Reduction, Gas & By-Products Co., 55 Liberty St., New York, and Cherry Valley, N. Y.

- COX, Claude E. (Associate, 1907), Dir., Commer. Engrg. Labs., 88 Congress St., E., Detroit, Mich.
- COX, Frank G. (1905; Associate, 1908), Edge Moor Iron Co., Edge Moor, Del.
- COX, Frederick W. (1908), Andersen, Meyer & Co., Ltd., Shanghai, China.
- COX, Jacob D. (1881), Pres., The Cleveland Twist Drill Co., cor. Lakeside Ave. and E. 49th St., and 3411 Euclid Ave., Cleveland, O.
- COX, Millard F. (1913), Asst. Supt. Mchy., Louisville & Nashville R. R. Co., and *for mail*, 2136 Park Pl., Louisville, Ky.
- COYLE, Andrew M. (1913), M. E., Coast Defense, Bd. of Engrs., U. S. A., Rm. 700, 39 Whitehall St., and 16 Jumell Terrace, New York, N. Y.
- COZZENS, Henry A., Jr. (Junior, 1914), Lab. Asst., Pub. Serv. Elec. Co., 102 River St., and *for mail*, 22 Pennington St., Newark, N. J.
- CRAGG, Walston S. (Junior, 1914), Constr. Supt., Hollinger Gold Mines, Ltd., Timmins, Ont., Canada, and *for mail*, 8364 Curzon Ave., Cincinnati, O.
- CRAIG, Charles H., Jr. (1908), Mem. of Firm, McClintock & Craig, 33 Lyman St., Springfield, Mass.
- CRAIG, Howard B. (Junior, 1899), Solvay Process Co., Syracuse, N. Y.
- CRAIG, James (1897), M. E., 807-841 Garfield Ave., Jersey City, N. J.
- CRAIGLOW, Harry H. (Junior, 1911), Plant Engr., The Buckeye Steel Castings Co., and 717 Wilson Ave., Columbus, O.
- CRAIN, John J. (1896; 1908), Sales Engr., The Waterbury Tool Co., New Britain, and *for mail*, Wallingford, Conn.
- CRAIN, L. D. (1914), Asst. Prof. M. E., State Agri. College, and 121 N. Sherwood St., Fort Collins, Colo.
- CRAMER, Robert (1914), Engr., Designer, Motor Engrg. Co., 4600 W. Harrison St., and *for mail*, care of Hecla-Winslow Co., Inc., P. O. Box 803, Chicago, Ill.
- CRANE, Arthur M. (Associate, 1913), The N. Y. Continental Jewell Filtration Co., 15 Broad St., New York, N. Y.
- CRANE, Eugene C. (Junior, 1915), Asst. Engr., Minn. State Farm, St. Paul, and *for mail*, 2610 W. 41st St., Minneapolis, Minn.
- CRANE, Frederick L. (Junior, 1912), West Penn Traction Co., Pittsburgh, Pa.
- CRANE, J. B. (1914), Genl. Supt., Great No. Power Co., Box 779, and 2308 Vermillion Rd., Duluth, Minn.
- CRANSTON, Robert E. (1907), Min. Engr., 437 Holbrook Bldg., San Francisco, Cal.
- CRAWFORD, Charles C., Jr. (Junior, 1906), Houston Mgr., A. M. Lockett & Co., Ltd., Brazos Hotel Bldg., Houston, Tex., and 612 Royal St., New Orleans, La.
- CRAWFORD, C. W. (1905), Pres., Crawford & M'Crimmon Co., and 147 Ridge St., Brazil, Ind.
- CRAWFORD, David F. (1899), Manager, 1910-1913; Genl. Supt. M. P., Pa. Lines, Union Sta., and Rittenhouse, Pittsburgh, Pa.
- CRAWLEY, George E. (Junior, 1908), The Francisco Sugar Co., Francisco, Provincia de Camaguey, Cuba.
- CREELMAN, Frank (1894), 203 W. 117th St., New York, N. Y.
- CRESSLER, Alfred D. (1910), Pres., Cons. Engr., The Kerr Murray Co., 122 S. Michigan Ave., and 607 Rush St., Chicago, Ill.
- CREWSON, G. G. (Associate-Member, 1915), M. E., Roessler & Hasslacher Chem. Co., Perth Amboy, N. J., and *for mail*, 222 Wood St., Tottenville, S. I., N. Y.
- CRICQUI, Albert A. (1914), Htg., Vent. and Fan Engr., Buffalo Forge Co., 490 Broadway, and *for mail*, 222 Bissell Ave., Buffalo, N. Y.
- CRISSEY, Clarence P. (1912), 600 W. 114th St., New York, N. Y.

- CROCKARD, Frank H. (1909), V. P., Tenn. Coal, Iron & R. R. Co., 1524 Brown-Marx Bldg., and 2708 Highland Ave., Birmingham, Ala.
- CROCKER, A. G. (Junior, 1911), Salesman Prime Mover Div., Westinghouse Elec. & Mfg. Co., 1212 Dime Savings Bank Bldg., Detroit, Mich.
- CROCKER, Allen S. (1905), Supt. Industrial Arts Dept., Mechanics Inst., Cons. Engr., 55 Plymouth Ave., and 15 Audubon St., Rochester, N. Y.
- CROFOOT, George E. (1907; 1913), Instr. M. E., Univ. of Pa., and 223 S. Farragut St., Philadelphia, Pa.
- CROGHAN, John T. (1909; 1914), Constr. Supt., Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass., and *for mail*, 1204 Electric Bldg., Buffalo, N. Y.
- CROLL, A. G. (Associate, 1901), Genl. Supt., The Atlas Portland Cement Co., 30 Broad St., New York, N. Y., and Marlborough Hotel, East Orange, N. J.
- CROMWELL, J. C. (1892; 1900), 1410 New England Bldg., and 1781 E. 89th St., Cleveland, O.
- CROMWELL, Oliver C. (1914), M. E., The B. & O. R. R. Co., Mt. Clare, Baltimore, Md.
- CRONEMEYER, Henry C. (1912), Efficiency Engr., Jones & Laughlin Steel Co., Woodlawn, Pa.
- CROOK, Geo. L. (1905), Wks. Mgr. Tractor Wks., M. Rumely Co., and 1227 Michigan Ave., La Porte, Ind.
- CROOKER, Paul R. (Junior, 1912), Asst. M. E., Beech Nut Packing Co., and *for mail*, 16 Orchard St., Canajoharie, N. Y.
- CROOKER, Ralph (1890), Acton, Mass.
- CROSBY, Edward H. (1913), Genl. Supt., Veeder Mfg. Co., and *for mail*, 252 Edgewood St., Hartford, Conn.
- CROSBY, Oliver (1911), Managing Partner, Engr., Am. Hoist & Derrick Co., and *for mail*, 63 S. Robert St., St. Paul, Minn.
- CROSBY, William W. (1900; 1902), 40 Central St., Boston, and 8 Old Mystic St., Arlington, Mass.
- CROSS, Charles N. (1911), Asst. Prof. M. E., Leland Stanford Jr. Univ., Stanford Univ. P. O., Cal.
- CROSS, Garrett P. S. (1913), Designing Draftsman, Genl. Elec. Co., and *for mail*, 14 Haigh Ave., Schenectady, N. Y.
- CROSS, Henry B. (1913), Secy., Genl. Fire Extinguisher Co., 275 W. Exchange St., Providence, R. I.
- CROSS, Wallace J. (Associate-Member, 1914), The Bartlett Hayward Co., and *for mail*, 4407 Garrison Ave., Baltimore, Md.
- CROTHERS, Charles E., Jr. (Junior, 1905), M. E., 1663 Cambridge St., Cambridge, Mass.
- CROUCH, Calvin H. (1898; 1908), Dean College M. and E. E., Univ. of N. D., Grand Forks, N. D.
- CROWELL, Henry W. (1912), Pres., Treas., Eureka Air Compressor Co., Inc., and *for mail*, 160 Willard Ave., Bloomfield, N. J.
- CROWELL, William J., Jr. (1908; 1916), Ch. Chem., Am. Iron & Steel Mfg. Co., Lebanon, Pa.
- CROZIER, Herbert W. (1914), Engr., Sanderson & Porter, Nevada Bank Bldg., and *for mail*, 14 Montgomery St., San Francisco, Cal.
- CRUIKSHANK, Dr. Barton (1913), Designing Engr. Ordnance Dept., E. W. Bliss & Co., foot of 53d St., and 38 Martense St., Brooklyn, N. Y.
- CRUTE, William R. (Junior, 1910), Operating Engr., Electrification Power House, Norfolk & West. Ry. Co., Branwell, W. Va.
- CULLEN, James K. (1886), Pres., The Niles Tool Wks., and Franklin and D St., Hamilton, O.

- CULLINGWORTH, Geo. R. (1884), M. E., Garvin Mch. Co., Spring and Varick Sts., New York, N. Y.
- CUMMINGS, Byron (1910), Supt. Inspec. Dept., Ocean Accident & Guarantee Corp., 59 John St., and *for mail*, 560 W. 180th St., New York, N. Y.
- CUMMINGS, Edgar C. (1906), V. P., Mgr., The Crawford-Cummings Co., Erie, Pa., and 608 Wellington St., Waterloo, Ia.
- CUMMINGS, Orrie P. (1899), Supt. of Constr., A. B. See Elec. Elev. Co., 220 Broadway, and 48 W. 51st St., New York, N. Y.
- CUMMINGS, Wm. W. (1905), Cons. and Contr. Engr., Hanover, N. H.
- CUMMINS, Thomas C. (Associate, 1915), Sales Engr., The N. Y. Continental Jewell Filtration Co., 15 Broad St., and *for mail*, 202 E. 68th St., New York, N. Y.
- CUMMISKEY, William M. (1914), 265 High St., Newark, N. J.
- CUMNER, Matthew S. (1912), Mgr., Nestor Mfg. Co., 40 W. 13th St., and 82 W. 12th St., New York, N. Y.
- CUNNINGHAM, Charles G. (Associate, 1908), Engr., N. Y. C. & H. R. R. R. Co., Yonkers Power Sta., Yonkers, and *for mail*, 7 Perot St., Kingsbridge, New York, N. Y.
- CUNNINGHAM, Christopher (1916), Pres., The Christopher Cunningham Co., Greenpoint Ave. and Newtown Creek, Brooklyn, and Radnor Rd. and Doncaster Blvd., Jamaica Estates, Jamaica, N. Y.
- CUNNINGHAM, George H. (1910; 1914), Asst. Supt. Constr. Washoe Reduction Wks., Anaconda Copper Min. Co., and *for mail*, Box 501, Anaconda, Mont.
- CUNNINGHAM, Robert H. (Junior, 1907), Sales Engr., Ingersoll-Rand Co., 11 Broadway, New York, N. Y.
- CUNNINGHAM, Thos. (1899), Wenham, Mass.
- CURLEY, Robert S. (Junior, 1912), M. E. Kitson Plant, Saco Lowell Co., and *for mail*, 11 Grace St., Lowell, Mass.
- CURRIE, Robert J. (1913), 30 E. 42d St., New York, N. Y.
- CURTIS, Edma H., Jr. (Junior, 1901), M. E., 1981 Cleneay Ave., Norwood, O.
- CURTIS, Greely S. (1897; 1904), Treas., Burgess Co. & Curtis, Marblehead, and 360 Essex St., Salem, Mass.
- CURTIS, Lewis E. (1914), Cons. Engr., Kenilworth, Ill.
- CURTIS, Ralph E. (1888; 1901), Edison Elec. Ill. Co. of Boston, 39 Boylston St., Boston, and *for mail*, 15 Allen St., West Roxbury, Mass.
- CURTIS, Walter M. (1912), Mgr. Engrg. Dept., N. E. Audit Co., Springfield, and *for mail*, care of The Fiberloid Co., Indian Orchard, Mass.
- CURTISS, Charles B. (Associate-Member, 1915), The Wickes Boiler Co., Saginaw, Mich.
- CUSHING, Geo. H. (1891), Genl. Supt., H. B. Smith Co., and *for mail*, 37 Broad St., Westfield, Mass.
- CUSHING, Ralph A. (1913), M. E., Estimator, Easton Mch. Co., South Easton, and *for mail*, 74 Thurber Ave., Brockton, Mass.
- CUSHMAN, Arthur W. (Junior, 1905), Supt., Parker Webb & Co., Michigan and 20th Sts., Detroit, Mich.
- CUSHMAN, Frank, Jr. (1916), Head of Dept. Mech. Arts and Applied Science, Kansas City Poly. Inst., and *for mail*, 2918 E. 29th St., Kansas City, Mo.
- CUSHMAN, Herbert E. (Associate, 1898), Treas., Genl. Mgr., Morse Twist Drill & Mch. Co., and 144 Hawthorne St., New Bedford, Mass.
- CUSTER, Levitt L. (Junior, 1913), Test Dept., The Natl. Cash Register Co., and *for mail*, 23 N. Wilkinson St., Dayton, O.
- CUTLER, Arthur E. (1910), M. E., Ashton Valve Co., 271 Franklin St., Boston, and *for mail*, 17 Chetwynd Rd., Tufts College, Mass.

- CUTLER, Frank G. (1914), Ch. Bureau of Steam Engrg., Tenn. Coal, Iron & R. R. Co., and *for mail*, 2651 Pike Ave., Ensley, Ala.
- CUTTER, George A. (1896; 1904), Genl. Mgr., Cell Drier Mch. Co., and 144 Dighton Ave., Taunton, Mass.
- CUTTER, Lawrence E. (1914), Asst. Prof. M. E., Leland Stanford Jr. Univ., Stanford Univ. P. O., and *for mail*, 627 Webster St., Palo Alto, Cal.
- CYPHER, Orren G. (1913), M. E., Matthiessen & Hegeler Zinc Co., and *for mail*, 553 11th St., La Salle, Ill.
- CYPHERS, James F. (Associate-Member, 1914), Supvg. Engr., Merck & Co., and 7 Darmstadt Ave., Rahway, N. J.
- CZAJKOWSKI, Alexander (1915), Ch. Draftsman, Byron Jackson Iron Wks., West Berkeley, and *for mail*, 1909 San Pablo Ave., Oakland, Cal.
- DABNEY, John C., Jr. (Junior, 1916), Supt., Glamorgan Pipe & Fdy. Co., and 316 Harrison St., Lynchburg, Va.
- DADLEY, James W. (Associate-Member, 1915), Efficiency Engr., The Celluloid Co., 290 Ferry St., Newark, and *for mail*, 11 Holly St., Cranford, N. J.
- DAGGETT, Herbert C. (1907), N. E. Mgr., S. Morgan Smith Co., 176 Federal St., Boston, Mass.
- DAHLSTRAND, Hans (1910), M. E., Steam Turbine Engrg. Dept., Allis-Chalmers Mfg. Co., Milwaukee, Wis.
- DAILEY, Fred A. (1915), Pres., Treas., Union Mch. Co., 191 W. University Ave., and *for mail*, 1931 Portland Ave., St. Paul, Minn.
- DALAS, Frank L. (Junior, 1914), Insp. Elec. and Mech. Dept., Youngstown Sheet & Tube Co., Genl. Delivery, Youngstown, O.
- DALE, Orton G. (1894; 1909), Mgr., Mead-Morrison Mfg. Co., 149 Broadway, New York, N. Y., and Plainfield, N. J.
- DALLETT, Elijah (1900), M. E., Midvale Steel Co., and *for mail*, Chestnut Hill, Philadelphia, Pa.
- DALLETT, W. P. (1888), Life Member; Hyd. Engr., Contr., 49 N. 7th St., Philadelphia, and Media, Pa.
- DALLEY, A. H. Charles (Associate, 1914), Assoc. Mgr., Heine Safety Boiler Co., Harrisburg Fdy. & Mch. Wks., 1410 Lytton Bldg., Chicago, and 777 Burr Ave., Hubbard Woods, Ill.
- DALLIS, Park A. (1911), Mill Arch., Engr., Park A. Dallis Co., 913 Candler Bldg., and 319 Grand Opera House Bldg., Atlanta, Ga.
- DALLY, John H. (1903), Ch. Engr., N. Y. Stock Exch., 10 Broad St., New York, N. Y., and 77 Glenwood Ave., East Orange, N. J.
- DALRYMPLE, Philip W. (Junior, 1915), Ch. Engr. Factory 10, The Singer Mfg. Co., Bridgeport, Conn.
- DALTON, William (1902), Ch. Engr., Am. Loco. Co., and R. F. D. 2, Schenectady, N. Y.
- DAM, William V. (1906), Genl. Mgr., Thompson & Co., and *for mail*, "Kalimna," Hall St., Castlemaine, Victoria, Australia.
- DAMON, John H. (1908; 1910), M. M., Plymouth Cordage Co., North Plymouth, and 258 Court St., Plymouth, Mass.
- DAMON, Walter H. (1909), Supt. of Generating, United Elec. Light Co., 32 Bancroft St., Springfield, Mass.
- DANFORTH, N. Loring (1903; 1914), Pres., John W. Danforth Co., 70-72 Elliott St., Buffalo, N. Y.
- DANFORTH, Raymond H. (1912), Case Sch. of Applied Science, Cleveland, O.
- DANFORTH, T. Dwight (Junior, 1916), M. E., U. S. Radiator Corp., West Newton, Pa., and Marysville, O.
- DANIEL, Allan P. (Associate-Member, 1915), Ch. Designing and Cons. Engr., Bituminized Road Co., 405-406-407 Reliance Bldg., Kansas City, and 1702 Arlington Ave., R. F. D. 6, Independence, Mo.

- DANIEL, Thomas L. (Associate-Member, 1913), Industrial Engr., C. L. Pillsbury Co., 805 Metropolitan Life Bldg., Minneapolis, and Robbinsdale, Minn.
- DANIELS, George C. (Associate-Member, 1914), Supt. Power Plant, Central Ill. Light Co., Fort Liberty St., and *for mail*, 407 Ellis St., Peoria, Ill.
- DANKS, Alfred C. (Junior, 1907), Gas Engr., Ch. Engr., Elec. Power Sta., Edgar Thomson Wks., Carnegie Steel Co., Braddock, and *for mail*, 331 West St., Wilkesburg Sta., Pittsburgh, Pa.
- DANNER, Emil C. (Junior, 1912), Cambria Steel Co., and *for mail*, 526 Y. M. C. A., Johnstown, Pa.
- DANZIGER, Jacob C. (1914), Secy., Treas., Detroit Motor Casting Co., 209-303 Beaufait Ave., Detroit, Mich.
- DARBEE, William (1900; 1912), Elec. Bond & Share Co., 71 Broadway, New York, N. Y.
- DARBY, John (1907), Cons. and Designing Engr., 7 E. 42d St., New York, N. Y., and *for mail*, 111 Summit Ave., Summit, N. J.
- DARGERT, Henry D. (Associate-Member, 1913), Secy., Mgr., Salamanca Eng-Iron Co., Salamanca, N. Y.
- DARLING, Albert W. (1913), M. E., Graton & Knight Mfg. Co., 356 Franklin St., Worcester, Mass.
- DARLING, Philip G. (1906; 1912), Ch. Engr. Exper. Sta., E. I. du Pont de Nemours & Co., and 1712 Washington St., Wilmington, Del.
- DARLINGTON, Philip J. (1904), Pres., The Roto Co., and 235 Sisson Ave., Hartford, Conn.
- DARLOW, A. M. (Junior, 1912), Supt. M. P., Buffalo & Susquehanna R. R., Galeton, Pa.
- DARRIN, David H. (1892; 1900), Pres., Automatic Switch Co., 4-6 White St., New York, N. Y., and Maywood, N. J.
- DARROW, Herbert V. W. (Junior, 1914), Constr. Engr., N. Y. & N. J. Constr. Co., 1507 Hudson Blvd., and *for mail*, 1124 Ave. C, Bayonne, N. J.
- DART, William C. (Associate, 1907), Pres., R. I. Tool Co., and 16 Stimson Ave., Providence, R. I.
- DASHIELL, W. W. (1890), Pres., Genl. Mgr., N. Y. Lubricating Oil Co., V. P., Bayway Refining Co., 116 Broad St., and 848 St. Nicholas Ave., New York, N. Y.
- DASSO, David (Junior, 1912), Mgr., The Vulcan Iron Wks. Co., Apartado 137, Callao, and Apartado 1171, Lima, Peru, S. A.
- DAUCHY, Samuel E. (Junior, 1903), Industrial Engr. with F. A. Waldron, 37 Wall St., New York, N. Y., and *for mail*, 205 Benson Pl., Westfield, N. J.
- DAUGHERTY, Frank (Junior, 1909), V. P., Scofield Engrg. Co., 1324 Arcade Bldg., and *for mail*, 2109 Chestnut St., Philadelphia, Pa.
- DAUGHERTY, Samuel B. (1905), Ch. Engr. Gas Eng. Dept., Snow Steam Pump Wks., and *for mail*, 129 Claremont Ave., Buffalo, N. Y.
- DAVENPORT, Wm. S. (1913), Treas., Davenport Mch. Tool Co., 90 S. 6th St., and *for mail*, 124 Cottage St., New Bedford, Mass.
- DAVEY, Warren (Junior, 1899), Ch. Engr., Colgate & Co., 105 Hudson St., and 123 Sip Ave., Jersey City, N. J.
- DAVID, William H. (Associate-Member, 1913), Mech. Draftsman, S. S. White Dental Mfg. Co., Prince Bay, S. I., and *for mail*, 175 Fisher Ave., Tottenville, N. Y.
- DAVIDSON, Archer (Associate, 1907), Dist. Engr., Westinghouse Mch. Co., 1326 Candler Bldg., Atlanta, Ga.
- DAVIDSON, Charles J. (1904), Manager, 1911-1914; Mem. of Firm, Woodmansee & Davidson, 1048 First Natl. Bank Bldg., Chicago, Ill.

- DAVIDSON, J. Brownlee (1905; 1912), Prof. Agri. Engrg., Agri. Exper. Sta., Univ. Farm, Univ. of Cal., Davis, Cal.
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- DAVIDSON, Marshall T. (1886), Pres., M. T. Davidson Co., 43-53 Keap St., and 108 St. James Pl., Brooklyn, N. Y.
- DAVIDSON, Morgan W. (1912), Prof. M. E., Univ. of S. D., Vermillion, S. D.
- DAVIES, Clarence E. (Junior, 1915), Smith Premier Wks., Remington Type-writer Co., and *for mail*, 723 E. Genesee St., Syracuse, N. Y.
- DAVIS, A. C. (1909), V. P., Mgr., Am. Mfg. Concern, Jamestown, and Main and Homestead Sts., Falconer, N. Y.
- DAVIS, Albion R. (Junior, 1913), Ch. Draftsman, Gray & Davis, Inc., Boston, and *for mail*, 9 Gardner Terrace, Allston, Mass.
- DAVIS, Charles B. (1915), Engr., Mch. Salesman, C. B. Davis Engrg. Co., 734 Brown Marx Bldg., Birmingham, Ala.
- DAVIS, Charles Ethan (1886), Mgr., Am. Loco. Co., and P. O. Box 275, Providence, R. I.
- DAVIS, Charles H. (1890), 18 Old Slip, New York, N. Y., and *for mail*, South Yarmouth, Mass.
- DAVIS, Edwin H. (Junior, 1907), Ch. Draftsman, Am. Steam Pump Co., and *for mail*, 76 Chestnut St., Battle Creek, Mich.
- DAVIS, Francis P. (Junior, 1913), Am. Tel. & Tel. Co., 15 Dey St., New York, N. Y.
- DAVIS, Fred R. (1914), Ch. Engr. Power Plant, Pittsburgh Plate Glass Co., and *for mail*, 601 S. Webster St., Kokomo, Ind.
- DAVIS, George C. (1915), Pres., G. M. Davis Regulator Co., 422 Milwaukee Ave., Chicago, Ill.
- DAVIS, George Henry (1913), Mem. of Firm, Ford, Bacon & Davis, 921 Canal St., and 2134 Napoleon Ave., New Orleans, La.
- DAVIS, George Howard (Junior, 1907), Secy., J. J. Kenyon Mfg. Co., and 18 Kossuth St., Pawtucket, R. I.
- DAVIS, Herbert R. (1901; 1914), Quapaw Gas Co., Bartlesville, Okla.
- DAVIS, Herman H. (1913), Boston Mgr., Fuller Bros. & Co., 24 Milk St., and *for mail*, 8 Irvington St., Boston, Mass.
- DAVIS, James H. (Associate-Member, 1913), Engr., Mgr., William S. Haines & Co., 280 Broadway, New York, and 255 E. 23d St., Brooklyn, N. Y.
- DAVIS, John F. (Junior, 1912), Supt., Beckett Paper Co., Hamilton, O.
- DAVIS, Joseph P. (1880), 332 Palisade Ave., Yonkers, N. Y.
- DAVIS, Leon K. (1911), 841 David Whitney Bldg., Detroit, Mich.
- DAVIS, Lewis K. (1892), Cons. Engr., 15 E. 40th St., New York, N. Y.
- DAVIS, Oliver M. (1914), Constr. M. E. Oil Mill, Swift & Co., Augusta, Ga.
- DAVIS, Robt. G. (1900; 1902), Supt. Ins. Bldg., German Am. Ins. Co., 19 W. Main St., and 222 Plymouth Ave., Rochester, N. Y.
- DAVIS, William J., Jr. (1910), Pac. Coast Engr., Genl. Elec. Co., 720 Rialto Bldg., San Francisco, Cal.
- DAVISON, Clarence M. (Junior, 1909), Genl. Mgr., Westbrook Elev. Co., Danville, Va.
- DAVISON, Gregory C. (1913), V. P., Elec. Boat Co., Groton, Conn.
- DAVISSON, Woodford (Associate-Member, 1915), Ch. Engr., Rancho La Brea Oil Co., 908 Merchants Natl. Bank Bldg., Los Angeles, Cal.
- DAVOL, George K. (1901), M. E., 503 Market St., San Francisco, Cal.
- DAVOUD, Vahram Y. (1906; 1909; 1913), E. and M. E., Utah Power & Light Co., Salt Lake City, Utah.

- DAWES, Herbert N. (1902), V. P., Nightingale & Childs Co., Pres., Cerro Gordo Fruit Co., V. P., Putnam-Morrill Co., 205 Congress St., Boston, and 100 Orange St., Chelsea, Mass.
- DAWES, Robert (1890; 1896), V. P., Supt., Haskell, Dawes Mch. Co., Erie and Trenton Aves., Philadelphia, and 5014 Penn St., Frankford, Philadelphia, Pa.
- DAWLEY, Clarence A. (1904; 1912), Cons. Engr., 90 West St., New York, N. Y., and 904 Watchung Ave., Plainfield, N. J.
- DAWSON, George H. (1916), Engr., Charge Equip. New Wks., Remington Arms & Ammunition Co., Ilion, N. Y.
- DAWSON, Val S. (Junior, 1914), Supt., Fidelity Cotton Oil Co., Box 1793, and 400 Emerson St., Houston, Tex.
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- DAY, Charles I. (Junior, 1910), Genl. Mgr., So. Utilities Co., 916 Heard Bldg., Jacksonville, Fla.
- DAY, George H. (1912), Asst. Supt., Am. Optical Co., and *for mail*, 52 Chapin St., Southbridge, Mass.
- DAY, Irvin W. (Junior, 1908), 100 Broadway, and 119 W. 71st St., New York, N. Y.
- DAY, Leonard A. (1909), Ch. M. E., St. Louis Water Dept., 34 E. Grand Ave., and *for mail*, 4015a Greer Ave., St. Louis, Mo.
- DAY, Paul (1909), Treas., Federal Lumber Co., 920-921 Rogers Bldg., Vancouver, and Kerrisdale, B. C., Canada.
- DAY, Percy C. (1913), Engr., Mgr. Helical Gear Dept., The Falk Co., and *for mail*, 3209 Cedar St., Milwaukee, Wis.
- DEACON, Ralph W. (Associate, 1907), Supt., U. S. Metals Refining Co., Chrome, and 559 Westminster Ave., Elizabeth, N. J.
- DEAN, Ambrose B. (1913), E. Keeler Co., 50 Church St., New York, N. Y., and 277 Lafayette Ave., Passaic, N. J.
- DEAN, Arthur M. (1907; 1913), M. E. Motor Dept., Ferro Mch. & Fdy. Co., Hubbard Ave. and 65th St., and *for mail*, 1466 E. 109th St., Cleveland, O.
- DEAN, Dion K. (Junior, 1912), Dist. Sales Mgr., Alberger Pump & Cond. Co., 88 Broad St., Boston, and 85 Faun Bar Ave., Winthrop, Mass.
- DEAN, Edmund W. (1905), Ch. Draftsman, Duplex Ptg. Press Co., and 67 Calhoun St., Battle Creek, Mich.
- DEAN, Francis W. (1883), Vice-President, 1895-1897; Mill Engr., Arch., 53 State St., Boston, Mass.
- DEAN, Peter P. (1914), Cons. Engr., 103 Park Ave., New York, N. Y.
- DEARBORN, William L. (Junior, 1913), Res. Engr., Barclay, Parsons & Klapp, Port of Havana Docks Co., Apartado 1289, Havana, Cuba.
- DEATS, William (1913), Factory Supt., Mem. of Firm, The Edgar O. Clark Co., New York, and *for mail*, 34 Carrol St., Yonkers, N. Y.
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- DECHEFD, Constant K. (1914), M. M., Charge of Plant, Factory E., Internatl. Silver Co., Meriden, Conn.
- DECKER, Edward P. (1906), Brighton, Livingston Co., Mich.

- DECKER, George A. (1915), Wks. Engr., Warner & Swasey Co., Cleveland, and 129 Carlyon Rd., East Cleveland, O.
- DECKER, James H. (Associate, 1913), care of Engr. of Docks, Panama R. R., Cristobal, Canal Zone.
- DEDRICK, Benjamin W. (1914), Instr. Flour Mill Engrg., Pa. State College, and *for mail*, Lock Box 442, State College, Pa.
- DEEDS, Edward A. (Associate, 1900), V. P., Natl. Cash Register Co., Pres., The Dayton Engr. Labs. Co., and *for mail*, Moraine Farm, Dayton, O.
- DEILY, Arthur T. (Junior, 1913), Erector, Allis-Chalmers Mfg. Co., and *for mail*, Y. M. C. A., West Side, Cleveland, O.
- DEINERT, Edmund F. (1914), Ch. Engr. Pumping Plants, Hawaiian Commercial & Sugar Co., Punene, Maui, Hawaii.
- DeLAMATER, Oakley R. (1902), Partner, Chadick-DeLamater Co., 238 W. 53d St., New York, and Elm Cottage, Bronxville, N. Y.
- DeLAMATER, V. N. (1913), Asst. Sales Mgr., Hyatt Roller Bearing Co., 3066 W. Grand Blvd., and 804 Second Ave., Detroit, Mich.
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- De LANY, George S. (1912), Genl. Mgr., Rivett Lathe & Grinder Co., Brighton, Boston, and 59 Corinne Rd., Faneuil, Mass.
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- DEMAREST, Henry S. (Associate, 1914), Sales Mgr., Greene, Tweed & Co., 109 Duane St., New York, and *for mail*, 147 St. James Pl., Brooklyn, N. Y.
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- DENT, John A. (Junior, 1911), Assoc. M. E., Univ. of Ill., 307 Engrg. Hall, and 1104 W. Illinois St., Urbana, Ill.
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- DEPPELER, John H. (Associate-Member, 1915), Supt., Goldschmidt Thermit Co., 92 Bishop St., Jersey City, N. J.

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- DETRICK, Jacob S. (1892), Pres., Detrick & Harvey Mch. Co., 508 E. Preston St., and 205 E. Preston St., Baltimore, Md.
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- DEVENS, Richard (1913), East. Mgr., Brown Hoisting Mch. Co., 50 Church St., New York, N. Y.
- DEVERELL, Harry (1911), Pres., Deverell, Spencer & Co., Garrett Bldg., Baltimore, Md.
- DeVISSER, John H. (Associate-Member, 1915), Treas., The Coon-DeVisser Co., 1924 Ford Bldg., and 70 Euclid Ave., W., Detroit, Mich.
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- DeWOLF, Paul C. (Associate, 1915), Asst. Treas., Brown & Sharpe Mfg. Co., and *for mail*, 14 Cole Ave., Providence, R. I.
- DeWOLF, Roger D. (1914), M. E., Rochester Ry. & Light Co., 34 Clinton Ave., N., Rochester, N. Y.
- DeWOLFE, Edward C. (1899; Associate, 1906), DeWolfe Catalog Serv., 608 S. Dearborn St., and 3805 Grand Blvd., Chicago, Ill.
- DEWSON, Edward H. (1889; 1898), Res. Engr., Westinghouse Brake Cos., 105 Broadway, and 622 W. 114th St., New York, N. Y.
- DIAMOND, George A. (1914), Mgr., Scheid & Co., Nome, Alaska.
- DICKERMAN, Albert C. (1911), Warren B. Lewis, Cons. Engr., 10 Weybosset St., Providence, and *for mail*, 98 Columbia Ave., Edgewood, Providence, R. I.
- DICKERMAN, William C. (1899; 1907), V. P., Am. Car & Fdy. Co., 165 Broadway, New York, N. Y.
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- DICKIE, George W. (1892), Manager, 1895-1898; Vice-President, 1914-1916; Cons. Engr., Naval Arch., 24 California St., San Francisco, and 117 Griffith Ave., San Mateo, Cal.
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- DICKINSON, William N. (1906), Genl. Elev. Co., 29 Broadway, New York, and 38 De Koven Court, Brooklyn, N. Y.
- DIEDERICHS, Herman (1904; 1913), Prof. Exper. Engrg., Sibley College, Cornell Univ., Ithaca, N. Y.
- DIEFENDORF, Willis H. (1904), Ch. Engr., New Process Gear Corp., and *for mail*, 115 Baker Ave., Syracuse, N. Y.
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- DIEPENBROCK, Joseph F. (1912), Ch. Engr., Henry R. Worthington, Harrison, and *for mail*, 25 Kingsley St., West Orange, N. J.

- DIERMAN, William (1915), Mgr. Purchasing Dept., Eclairage Electricque of Paris, 44 Whitehall St., and Hotel Vanderbilt, New York, N. Y.
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- DIETZ, Carl F. (1903; 1910), Advis. Engr., Asst. Sales Mgr., Norton Co., and *for mail*, 8 Westland St., Worcester, Mass.
- DILL, Thomas C. (1913), Pres., Genl. Mgr., T. C. Dill Mch. Co., Inc., Somerset, Mascher and Mutter Sts., and 2834 N. 6th St., Philadelphia, Pa.
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- DILLON, Frederick N. (1902), Treas., D. M. Dillon Steam Boiler Wks., and 16 Prospect St., Fitchburg, Mass.
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- DINKEL, Geo. (1890; 1897), Cons. Engr., Am. Sugar Refining Co., 117 Wall St., New York, N. Y., and *for mail*, 35 Highland Ave., Jersey City, N. J.
- DINKEY, A. C. (1902), Pres., Midvale Steel Co., Pres., Worth Bros. Co., V. P., Midvale Steel & Ordnance Co., 1614 Widener Bldg., and Bellevue-Stratford, Philadelphia, Pa.
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- DIRKS, Henry B. (Junior, 1907), Instr. Engrg. Drawing and Mch. Design, Princeton Univ., and *for mail*, 24 Mercer St., Princeton, N. J.
- DISERENS, Paul (Junior, 1908), Engr. of Tests, Laidlaw-Dunn-Gordon Co., Cincinnati, and *for mail*, Wilhelm Apt., Avondale, Cincinnati, O.
- DISSEL, Theodore A. (1916), Mgr., Cameron Appliance Co., 48 Waters Ave., Everett, Mass.
- DIXON, Charles F. (1903; 1911), Asst. Engr., I. R. T. Co., 600 W. 59th St., New York, and *for mail*, 1424 E. 14th St., Brooklyn, N. Y.
- DIXON, Robert M. (1884), Pres., Safety Car Htg. & Ltg. Co., 2 Rector St., New York, N. Y., and 21 Walnut St., East Orange, N. J.
- DIXON, Walter F. (1889; 1894), Mgr., Singer Mfg. Co.'s Wks., Podolsk, Moscow Govt., Russia.
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- DOBLE, Ralph N. (Associate-Member, 1911), M. E., Pneu. Scale Corp., Ltd., Norfolk Downs, Mass.
- DOBLE, William A. (1891), Ch. Engr., Pelton Water Wheel Co., 19th and Harrison Sts., and 76 Sea Cliff, San Francisco, Cal.
- DOBSON, Frank (1906), 319-321 E. 53d St., New York, N. Y.
- DOBSON, W. J. M. (1881), Cons. M. E., 398 Adelphi St., Brooklyn, N. Y.
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- DOHERTY, Henry L. (1903), Pres., Denver Gas & Elec. Co., 60 Wall St., New York, N. Y.
- DOLE, Ira B. (Junior, 1914), Retort Foreman, Federal Creosoting Co., Paterson, N. J.
- D'OLIER, William L. (1911), Pres., D'Olier Centrifugal Pump & Mch. Co., Morris Bldg., and 1533 Girard Ave., Philadelphia, Pa.
- DOLLAR, William M. (1896; 1903), Cons. Engr., Bierbaum-Dollar, Inc., 929-935 Marine Bank Bldg., Buffalo, and Springbrook, N. Y.
- DOMBROWSKY, Walter F. (Junior, 1913), Testing Engr. Proposition Dept., The Babcock & Wilcox Co., Bayonne, and *for mail*, 117 Littleton Ave., Newark, N. J.
- DOMONOSKE, Arthur B. (1912; Associate-Member, 1914), Holt Mfg. Co., and *for mail*, 835 E. Channel St., Stockton, Cal.
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- DONALDSON, Stuart A. (1909; Associate-Member, 1916), Mech. Asst. to Operating Mgr., Equitable Office Bldg. Corp., 120 Broadway, New York, N. Y., and *for mail*, 106 Donaldson Ave., Rutherford, N. J.
- DONNELLY, James A. (1911), Cons. Htg. and Vent. Eng., Pres., Positive Differential System Co., 132 Nassau St., New York, N. Y.
- DONNELLY, William T. (1903), Cons. Engr., 17 Battery Pl., New York, N. Y.
- DONOVAN, William J. (Associate-Member, 1913), Supt., Ch. Engr., Hotel Manhattan, 17 E. 42d St., New York, N. Y.
- DOOLITTLE, Harold L. (Junior, 1910), Asst. Constr. Engr., So. Cal. Edison Co., 329 San Fernando Bldg., Los Angeles, and *for mail*, 127 N. Catalina Ave., Pasadena, Cal.
- DOOLITTLE, Warren P. (1912; Associate-Member, 1914), Designing Engr., The Waterbury Mfg. Co., Waterbury, and *for mail*, 130 S. Main St., Naugatuck, Conn.
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- DORMAN, Neal W. (Junior, 1913), Mch. Designer, The Toledo Mch. & Tool Co., and *for mail*, 1067 Oakwood Ave., Toledo, O.
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- D'ORNELLAS, T. V. (Associate, 1907), Cons. E. E., Peruvian Govt., Calle de Lima 15, Chorrillos, Peru, S. A.

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- DOWNE, Henry S. (1886), Dir., Compagnie Nationale des Radiateurs, 149 Blvd. Haussmann, and 22 Ave. Raphaël, Paris, France.
- DOWNES, Nate W. (Junior, 1911), M. E., Bd. of Dir., Kansas City Sch. Dist., 517 Finance Bldg., and 4349 Campbell St., Kansas City, Mo.
- DOWST, F. B. (1892), West Roxbury, Boston, Mass.
- DOYING, William A. E. (1907), Inspc. Engr., The Panama Canal, 1709 G St., N. W., and 3220 17th St., N. W., Washington, D. C.
- DOYLE, Joseph A. (Junior, 1911), W. S. Rockwell Co., 50 Church St., New York, N. Y.
- DOYLE, Martin A. (1915), Second Lieut. Engr., U. S. Coast Guard, U. S. S. Mohawk, Sta. N, New York, N. Y.
- DRAKE, Charles F. (1914), The Babcock & Wilcox Co., 1207 Marquette Bldg., Chicago, Ill.
- DRAVO, Geo. P. (1899; 1906), Pres., Power Improvement Co., 1927 First Natl. Bank Bldg., and R. N. 8, Box 231, Sta. E., Milwaukee, Wis.
- DREFFFEIN, Henry A. (1913), Pres., Flinn & Drefffein Co., 1403 Manhattan Bldg., Chicago, and 217 S. Lombard Ave., Oak Park, Ill.
- DRESES, Henry (1914), Prop., Mgr., Dreses Mch. Tool Co., and *for mail*, 225 W. McMicken Ave., Cincinnati, O.
- DREW, Wilbert S. (1911), Supvr. of Industrial Wk., Olean High Sch., and *for mail*, 129 S. 8th St., Olean, N. Y.

- DREW, William N. (Junior, 1914), Chem. Engr., West. Precipitation Co., 1016 W. 9th St., Los Angeles, Cal.
- DREWETT, William A. (1888), 180 Quincy St., Brooklyn, N. Y.
- DREYER, Charles F. (Junior, 1912), M. E., West. Elec. Co., 463 West St., New York, N. Y., and *for mail*, 47 Seventh St., Ridgefield Park, N. J.
- DREYFUS, Edwin D. (1905; 1911), West Penn Traction & Water Power Co., First Natl. Bank Bldg., Pittsburgh, and 116 Linden Ave., Edgewood Park, Swissvale Sta., Pa.
- DRIVER, Arthur (Junior, 1913), Tool Designer, Gray & Davis, Inc., Boston, and 158 Warren St., Allston, Boston, Mass.
- DU BARRY, Ed. G. (Junior, 1910), Draftsman, Wabash Pittsburgh Terminal Ry. Co., Rook, and *for mail*, 435 Pacific Ave., Pittsburgh, Pa.
- DU BOSQUE, F. L. (1892), Pa. R. R., Pa. Sta., New York, N. Y.
- DU BRUL, Ernest F. (Associate, 1900), Pres., Pyro Clay Products Co., 507 E. Pearl St., and cor. Beecher and Melrose Ave., Cincinnati, O.
- DU BRUL, Napoleon (1900), Pres., Miller, Du Brul & Peters Mfg. Co., 507-519 E. Pearl St., and Colerain Ave., Sta. A., Cincinnati, O.
- DUCAS, Charles (Junior, 1903), Cons. Engr., Jacobs-Shupert U. S. Firebox Co., Rm. 321, 30 Church St., and 427 Fort Washington Ave., New York, N. Y.
- DuCOMB, William C., Jr. (1913), Sales Mgr., Engr., Barthel & Daly, 1216 Dime Bank Bldg., Detroit, and 162 Monterey Ave., Highland Park, Detroit, Mich.
- DUCOMMUN, Edwd. (1898; 1903), Asst. Ch. Engr., Am. Sugar Refining Co., and *for mail*, 179 Harrison Ave., Jersey City, N. J.
- DUDEN, Emil G. (Junior, 1907), Ch. Engr., W. B. Scaife & Sons Co., Oakmont, Pa.
- DUERNER, Henry L., Jr. (1901), M. E., 84 Fremont St., Battle Creek, Mich.
- DUFF, Howard (Associate-Member, 1915), First Asst. Ch. Testing Bureau, B. R. T. Co., Kent and Division Aves., Brooklyn, and *for mail*, 346 Burns St., Forest Hills, L. I., N. Y.
- DUFTY, Arthur (1915), M. E., Supt. of Bldgs., Purdue Univ., Lafayette, and 861 N. Main St., West Lafayette, Ind.
- DUGAN, C. M., Jr. (1913), 367-369 Washington Ave., Newark, N. J.
- DULL, Raymond W. (1908), Pres., The Raymond W. Dull Co., 718 Chamber of Commerce Bldg., Chicago, and *for mail*, 133 S. 6th Ave., La Grange, Ill.
- DuMOULIN, Walter L. (1911; Associate-Member, 1913), Supt., Morenci Water Co., Morenci, Ariz.
- DUNBAR, James H. (1907), M. E., Grasselli Chem. Co., Cleveland, and 1104 Forest Rd., Lakewood, O.
- DUNBAR, William O. (1904), Asst. Engr. Test Dept., Pa. R. R., and 1216 13th St., Altoona, Pa.
- DUNCAN, Albert G. (1909), Treas., Harmony Mills, 77 Franklin St., P. O. Box 1895, Boston, and Brookline, Mass.
- DUNCAN, Harry L. (1913), Pat. Lawyer, Expt., Rms. 2407-2408, 55 Liberty St., New York, and 1410 Union St., Brooklyn, N. Y.
- DUNCAN, John C. (1914), Prof. Business Administration and Accountancy, Univ. of Cincinnati, 320 Engrg. Bldg., Cincinnati, and 411 Ludlow Ave., Clifton, Cincinnati, O.
- DUNCAN, Lindsay (1912), M. E., Nev. Consld. Copper Co., McGill, Nev.
- DUNCAN, William M. (1911), V. P., Ill. Stoker Co., Genl. Mgr., Duncan Fdy. Co., Secy., Treas., Am. Coal Washing Co., Alton, Ill.
- DUNHAM, Byron W. (1914), Ch. Draftsman, Inter-Ocean Wks., Ry. Steel Spring Co., and *for mail*, 1614 Thorne St., Chicago Heights, Ill.

- DUNHAM, George W. (1908), V. P., Cons. Engr., Chalmers Motor Co., and 375 Iroquois Ave., Detroit, Mich.
- DUNHAM, Walter E. (1914), Supvr. M. P. and Mchy., Chicago & North West. Ry., Winona, Minn.
- DUNKIN, William Van (1909), Ch. Draftsman Exper. Dept., Deere & Co., and *for mail*, 1656 30th Ave., Moline, Ill.
- DUNKLE, H. Edw. (1907; 1915), Draftsman, Semet-Solvay Co., and *for mail*, Solvay Club House, Syracuse, N. Y.
- DUNLAP, George W. (1911), Supt. of Equip., Internatl. Ry. Co., and 15 Manchester Pl., Buffalo, N. Y.
- DUNLOP, William C. (1914), Asst. E. and M. E., Barclay Parsons & Klapp, 60 Wall St., New York, N. Y.
- DUNN, Chas. W. (1897), Robert W. Hunt & Co., and *for mail*, 38 Linnean St., Cambridge, Mass.
- DUNN, Edward L. (1913), Ch. Engr., Stand. Plunger Elev. Co., and *for mail*, 21 Catalpa St., Worcester, Mass.
- DUNN, Gano (1911), Life Member; Pres., J. G. White Engrg. Corp., 43 Exch. Pl., and *for mail*, 117 W. 58th St., New York, N. Y.
- DUNN, Kingsley G. (Associate, 1907), V. P., Hunt, Mirk & Co., Inc., 141 Second St., San Francisco, Cal.
- DUNN, William R. (1910), Wks. Mgr., Vulcanite Portland Cement Co., Easton, Pa., and *for mail*, Phillipsburg, N. J.
- DUNTON, Philip R. (Associate-Member, 1915), Supt., Municipal Water and Light Plant, Ponca City, Okla.
- du PONT, Coleman (1906), Pres., Equitable Office Bldg. Corp., 876 du Pont Bldg., and 808 Broome St., Wilmington, Del.; also 120 Broadway, New York, N. Y.
- DuPRIEST, John R. (1911), Head of M. E. Dept., Univ. of Idaho, and 821 Elm St., Moscow, Idaho.
- DURAND, Nelson C. (1889), Third V. P., Thomas A. Edison, Inc., Orange, and 380 Roseville Ave., Newark, N. J.
- DURAND, Wm. F. (1883), Vice-President, 1911-1913; Prof. M. E., Leland Stanford Jr. Univ., Stanford University P. O., Cal.
- DURANT, Aldrich (1906; 1913), MacArthur, Perks & Co., Ltd., 11 Pine St., New York, N. Y.
- DURBAN, Thomas E. (1912), Genl. Mgr., Erie City Iron Wks., Erie, Pa.
- DURFEE, Walter C. (1908; 1913), Cons. and Mfg. Chem., 516 Atlantic Ave., Boston, and *for mail*, 1 Dane St., Jamaica Plain, Mass.
- DURLEY, Richard J. (1899), Mem. of Firm, MacMullen, Riley & Durley, 4 Beaver Hall Sq., and 20 Summerhill Ave., Montreal, Que., Canada.
- DURWARD, Eric S. (Associate-Member, 1915), Asst. Supt., Cal. Oilfields, Ltd., Oilfields, Fresno Co., Cal.
- DUSOSSOIT, Octave (Associate, 1911), Res. Agt., Hohmann & Maurer Mfg. Co., Boston, and *for mail*, 156 Mason Terrace, Brookline, Mass.
- DUTCHER, Charles H., Jr. (Junior, 1915), Draftsman, Westinghouse Church, Kerr & Co., 37 Wall St., New York, N. Y., and *for mail*, 458 Fairmount Ave., Jersey City, N. J.
- DUTCHER, E. H. (Junior, 1912), 120 N. 4th St., Minneapolis, Minn.
- DUVENECK, Francis B. (Junior, 1913), 3530 Stettinius Ave., Cincinnati, O.
- DU VILLARD, Henry A. (1884), M. E., 173 George St., East Side Sta., Providence, R. I.
- DuVIVIER, Ernest H. (1911), Engr., 30 Church Street, New York, N. Y.
- DWIGHT, Ralph W. (Junior, 1913), Sales Dept., Walsh & Weidner Boiler Co., and *for mail*, 599 Mable St., Chattanooga, Tenn.

- DWYER, Emmet (Junior, 1907), Asst. Supt., Mich. Stove Co., and 679 Jefferson Ave., Detroit, Mich.
- DYE, Ira W. (Associate-Member, 1913), Supt. Dry Dock Pumps, The Panama Canal, Balboa, C. Z., and Panama, Rep. of Panama.
- DYER, Frank L. (Associate, 1901), 31 Nassau St., New York, N. Y., and Head of Parkhurst Pl., Montclair, N. J.
- DYER, Robert A., Jr. (1908), Asst. Genl. Mgr., Rochester, Syracuse & East. R. R. Co., and *for mail*, 2 Sheridan St., Auburn, N. Y.
- DYER, Robert M. (1892; 1904), V. P., Treas., Puget Sound Bridge & Dredging Co., 432-441 Central Bldg., and 3002 Cascadia Ave., Seattle, Wash.
- DYER, William J. (1912), Cons. Engr., Channing Apts., Berkeley, Cal.
- DYSON, Eugene E. (Junior, 1913), Draftsman, United Shoe Mch. Co., and *for mail*, 32 Prospect St., Beverly, Mass.
- EAGER, William G. (1913; Associate-Member, 1914), Second V. P., Valdosta Ltg. Co., Valdosta, Ga.
- EARLE, Frederic E. (Associate-Member, 1915), Pres., Treas., F. E. Earle Co., 50 N. 2d St., New Bedford, Mass.
- EARLE, Samuel B. (1905; 1908; 1914), Dir. Engrg. Dept., Prof. M. E., Clemson College, Clemson College, S. C.
- EARLL, Charles I. (1892), 11 Broadway, and 159 W. 105th St., New York, N. Y.
- EASBY, Francis H. (1888), 3316 Powelton Ave., Philadelphia, Pa.
- EASTHOPE, Joseph (1906), M. M. South Wks., Ill. Steel Co., and *for mail*, 7534 Saginaw Ave., Chicago, Ill.
- EASTMAN, Samuel G. (Associate, 1914), West. Sales Mgr., Pratt & Whitney Co., and *for mail*, 16-18 Fremont St., San Francisco, Cal.
- EASTWOOD, Everett O. (1915), Prof. M. E., Univ. of Wash., and 4702 12th Ave., N. E., Seattle, Wash.
- EASTWOOD, Sidney K. (Junior, 1913), Cons. Engr., Contr., 260 Main St., Owego, N. Y.
- EATON, Charles E. (1905), Eaton & Brownell, 70 Smith Bldg., and 1157 State St., Watertown, N. Y.
- EATON, Henry C. (Associate, 1908), Second Asst. Supt., Waltham Watch Co., and 62 Lyman St., Waltham, Mass.
- EATON, Russell W. (1894), Agt., Cabot Mfg. Co., and 17 Federal St., Brunswick, Me.
- EAYRS, Thomas C. (Junior, 1905), Mgr. Ry. and Ltg. Dept., Westinghouse Elec & Mfg. Co., 27 Woodward Ave., and *for mail*, 311 Montclair Ave., Detroit Mich.
- EBELING, Frederic O. (Junior, 1915), Engr., Draftsman, Robins Conveying Belt Co., 13 Park Row, and *for mail*, 128 Manhattan Ave., New York, N. Y.
- EBERHARDT, Frank E. (Junior, 1907), V. P., Treas., Newark Gear Cutting Mch. Co., 69 Prospect St., and 61 Hedden Terrace, Newark, N. J.
- EBERHARDT, Frederick L. (1899; 1902), Pres., Genl. Mgr., Gould & Eberhardt, and *for mail*, 17 Hillside Ave., Newark, N. J.
- EBERHARDT, H. Ezra (Junior, 1913), Gould & Eberhardt, Newark, and *for mail*, Mountain View Terrace, Maplewood, N. J.
- EBERHARDT, Henry J. (1902; 1906; 1913), Secy., Designer, Newark Gear Cutting Mch. Co., 69 Prospect St., and 326 Sanford Ave., Newark, N. J.
- ECHOLS, Francis G. (1913), Mgr. Small Tools Dept., Pratt & Whitney Co., Hartford, Conn.
- ECKART, W. R., Jr. (1904), Prof. M. E., Leland Stanford Jr. Univ., Stanford University P. O., and *for mail*, 1445 Bryant St., Palo Alto, Cal.

- ECKERT, Arthur C. (Associate-Member, 1913), Counselor at Law, Pat. and Trade Mark Causes, 1401-1407 Internat. Life Bldg., and 5200 Ridge Ave., St. Louis, Mo.
- ECKFELDT, John J. (1913), M. E., Ry. Steel Spring Co., and *for mail*, 724 Weldon St., Latrobe, Pa.
- EDDISON, W. Barton (Junior, 1913), Asst. Instr. M. E. Dept., Columbia Univ., New York, and *for mail*, Irvington, N. Y.
- EDDY, Harold F. (Associate-Member, 1915), Ch. Engr., Au Sable Elec. Co., and *for mail*, 107 S. Blackstone St., Jackson, Mich.
- EDEEN, Louis E. (Associate, 1909), Mech. and Advis. Engr. with Cass Gilbert, 11 E. 24th St., New York, N. Y., and Washington Park, Hasbrouck Heights, N. J.
- EDGAR, Charles L. (1910), Pres., Genl. Mgr., Edison Elec. Ill. Co. of Boston, 70 State St., Boston, Mass.
- EDGERTON, Lloyd B. (Associate-Member, 1913), M. E., Philadelphia Quartz Co., 17th and Kansas Ave., Kansas City, Kan.
- EDISON, Thos. A. (1880; Honorary, 1904), Inventor, West Orange, N. J.
- EDMONDSON, Ralph S. (1916), V. P., Am. Abrasive Metals Co., 50 Church St., New York, N. Y., and 1065 S. Grove St., Irvington, N. J.
- EDMUNDS, Louis L. (Associate-Member, 1914), Asst. Supt. Factory, Am. Beet Sugar Co., Chino, Cal.
- EDWARDS, Jacques H. (Junior, 1913), Stanley G. Flagg & Co., Ltd., 37 Hatton Garden, London, E. C., England.
- EDWARDS, Samuel H. (1912), Genl. Supt., Tide Water Oil Co., and *for mail*, 76 W. 35th St., Bayonne, N. J.
- EDWARDS, Victor E. (1889; 1890), Life Member; V. P., Morgan Constr. Co., 21 Lincoln St., Sta. A, Worcester, Mass.
- EDWARDS, William B. (1911), M. E., The S. O. & C. Co., Ansonia, and *for mail*, 17 E. 9th St., Derby, Conn.
- EDWARDS, William W. (Junior, 1913), Instr. in Charge Steam Power Plant Lab., Wentworth Inst., Boston, and *for mail*, 51 Oakland Rd., Brookline, Mass.
- EGAN, Thomas P. (1903), Pres., J. A. Fay & Egan Co., and *for mail*, Edge Cliff Rd., Cincinnati, O.
- EGBERT, Charles C. (1906), Cons. Engr., 99 Gluck Bldg., and 401 Jefferson Ave., Niagara Falls, N. Y.
- EGBERT, Harry D. (Junior, 1915), Asst. Engr., Research Corp., 63 Wall St., New York, N. Y., and *for mail*, 626 Lenox Ave., Westfield, N. J.
- EGLIN, William C. L. (1916), Second V. P., Ch. Engr., The Philadelphia Elec. Co., 1000 Chestnut St., and 235 S. 42d St., Philadelphia, Pa.
- EBBETS, C. J. (1890), M. E., Pat. Expt., Colt's Pat. Fire Arms Mfg. Co., and 12 Vernon St., Hartford, Conn.
- EHLERS, Henry E. (1912), Prof. Exper. Engrg., Univ of Pa., Asst. Ch. Engrg. Bureau, Pub. Serv. Com. of Pa., Philadelphia, Pa.
- EHLERS, Peter (1890), Ch. Engr., Wm. I. McCahan Sugar Refining Co., foot of Tasker St., and *for mail*, 3227 N. 17th St., Philadelphia, Pa.
- EHRHART, Raymond N. (1914), Engr. Cond. Dept., Westinghouse Mch. Co., East Pittsburgh, and 217 Vine St., Edgewood Park, Pittsburgh, Pa.
- EHRlich, M. William (Junior, 1915), Assoc. Editor, Metal Worker, Plumber & Steam Fitter, 239 W. 39th St., and *for mail*, 891 Forest Ave., New York, N. Y.
- EHRMAN, Edwin H. (1914), Secy., Factory Mgr., Chicago Screw Co., Engr., Stand. Screw Co., Homan Ave. and Fillmore St., Chicago, and *for mail*, 460 N. Kenilworth Ave., Oak Park, Ill.
- EHRMANN, Carl (1911; 1913), Sales Engr., 52 Broadway, New York, N. Y.

- EHRMANN, John P. (Junior, 1903), Collins House, Watervliet, N. Y.
- EICHLER, Walter G. (Junior, 1912), Asst. M. E. Worsted Dept., Pacific Mills, and *for mail*, 203 Haverhill St., Lawrence, Mass.
- EIDMANN, Frank L. (Associate-Member, 1915), Box 151, Elmira, N. Y.
- EIFFEL, Gustave (Honorary, 1889), 1 Rue Rabelais, Paris, France.
- EILERS, Karl (1890; 1904), Am. Smelting & Refining Co., 120 Broadway, and 435 Riverside Drive, New York, N. Y.
- EILERSGAARD, Asger (1913), Engr. Loco. Crane Dept., Link-Belt Co., 39th St. and Stewart Ave., Chicago, Ill.
- EINIG, Alvin B. (Junior, 1912), The Motch & Merryweather Mch. Co., and *for mail*, 2278 E. 87th St., Cleveland, O.
- EINSTEIN, Alfred C. (Associate, 1905), V. P., Genl. Mgr., Union Elec. Light & Power Co., 315 N. 12th St., and 5042 Washington Ave., St. Louis, Mo.
- EINSTEIN, Sol (1913), Ch. Designer, Cincinnati Milling Mch. Co., Oakley, Cincinnati, O.
- EISENHART, Harry W. (Associate, 1914), Sales Agt., Bethlehem Steel Co., First Natl. Bank Bldg., and *for mail*, P. O. Box 1039, Pittsburgh, Pa.
- EKSTRAND, Charles (1898; 1903), Cons. Engr., Warner Sugar Refining Co., Warner Quinlan Asphalt Co., Malt Diastase Co., 79 Wall St., and 348 W. 121st St., New York, N. Y.
- EKSTRAND, L. M. (1907), Engr. Chicago Dist., Am. Steel & Wire Co., and *for mail*, 131 Lenox Ave., Waukegan, Ill.
- ELAM, Arthur M. (Associate-Member, 1915), Charge of Drawing, Columbus Trade Sch., and *for mail*, 312 W. 4th Ave., Columbus, O.
- ELDER, Edward H. (Associate, 1916), Cons. Engr., Elder & Elder, Court Square Theatre Bldg., Springfield, and 67 Washington St., Chicopee Falls, Mass.
- ELDER, Hugh M. (1912), Genl. Power Engr., Am. Loco. Co., and 1704 Park Ave., Richmond, Va.
- ELDRED, Byron E. (1899; 1903), Pres., Commer. Research Co., Pres., Johnson Elec. Smelting, Inc., 18 E. 41st St., and 170 W. 73d St., New York, N. Y.
- ELDREDGE, A. H. (1894), Cons. Engr., N. E. States Office, North Packing & Provision Co., Boston, Mass.
- ELLENWOOD, Frank O. (1913), Asst. Prof. Heat-Power Engrg., Sibley College, Cornell Univ., Ithaca, N. Y.
- ELLICOTT, Edward B. (1903), E. E., Sanitary Dist. of Chicago, 1500 Am. Trust Bldg., and *for mail*, 6229 Winthrop Ave., Chicago, Ill.
- ELLINGHAM, Robert W. (1913), Asst. Supt., Remington Arms & Ammunition Co., and *for mail*, 450 Mill Hill Ave., Bridgeport, Conn.
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- ELLIOTT, Ben. G. (Junior, 1911), Assoc. Prof. M. E., Univ. of Neb., Sta. A, Lincoln, Neb.
- ELLIOTT, Elmer G. (1907), Engr., River Smelting & Refining Co., Kcokuk, Ia.
- ELLIOTT, Thomas (1904), Ch. Engr., 1312 Traction Bldg., and 354 Shiloh St., Cincinnati, O.
- ELLIOTT, W. E. (1889), Suptg. Engr., Goodrich Transit Co., Chicago, Ill.
- ELLIOTT, William, Jr. (Associate-Member, 1915), Boiler Mfr., Leslie & Elliott Co., Paterson, N. J.
- ELLIOTT, William S. (1915), Pres., Elliott Co., 6905 Susquehanna St., and 4723 Wallingford St., Pittsburgh, Pa.
- ELLIS, Frank I. (1907), 5817 Callowhill St., E. E., Pittsburgh, Pa.

- ELLIS, Halcolm (1911), Supt., Ellis Adding-Typewriter Co., Elizabeth and Hawthorne Aves., Newark, and 17 S. Arlington Ave., East Orange, N. J.
- ELLIS, Henry G. (Junior, 1913), Supt., Torrington Mfg. Co., and *for mail*, 118 Migeon Ave., Torrington, Conn.
- ELLIS, Humphrey A. (1912), Pres., Light Ry. Equip. Co., Chester, and Ridley Park, Pa.
- ELLIS, Weldon T. (1908; 1912), Asst. Prof. M. E., N. C. College of Agri. and Mech. Arts, West Raleigh, N. C.
- ELLISON, Lewis M. (1911; 1913), Engr., Mfr., 214 W. Kinzie St., and 3721 Pine Grove Ave., Chicago, Ill.
- ELMER, Nixon W. (1915), Engr., The Lamson Co., 100 Boylston St., Boston, and *for mail*, 106 Greenleaf St., Quincy, Mass.
- ELMER, William (1896; 1913), Supt. M. P. No. Div., Pa. R. R., 622 Brisbane Bldg., Buffalo, N. Y.
- ELMES, Chas. W. (1904), Pres., Chas. F. Elmes Engrg. Wks., Morgan and Fulton Sts., and 2922 Prairie Ave., Chicago, Ill.
- ELROD, H. E. (1911), 905 Southwestern Life Bldg., Dallas, Tex.
- ELSAS, Oscar (1914), Pres., Fulton Bag & Cotton Mills, and Ponce de Leon Apts., Atlanta, Ga.
- ELSTER, Gurdon G. (Associate-Member, 1913), Supt. Fort William Wks., Canadian Car & Fdy. Co., Ltd., P. O. Box 548, Fort William, Ont., Canada.
- ELY, Harold F. (Associate-Member, 1915), Mech. Draftsman, Alberger Pump & Cond. Co., 140 Cedar St., New York, and *for mail*, 862 Kenmore Pl., Brooklyn, N. Y.
- ELY, Sumner B. (1896; 1901), V. P., Chester B. Albee Iron Wks. Co., and 5122 Pembroke Pl., Pittsburgh, Pa.
- ELY, Theo. N. (1880), Manager, 1880-1881; Vice-President, 1882; Ch. of M. P., Pa. R. R., Ret., Bryn Mawr, Pa.
- ELY, William G. (1893; 1901), Supt. Constr., Genl. Elec. Co., and *for mail*, Lenox Rd., Schenectady, N. Y.
- EMENY, Frederick J. (Associate, 1899), Ch. Engr., The Deming Co., and *for mail*, 459 Cleveland Ave., Salem, O.
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- EMERSON, Harrington (1899), Pres., The Emerson Co., 30 Church St., and 125 Riverside Drive, New York, N. Y.
- EMERY, Albert H. (1880), C. and M. E., 788 Main St., Stamford, and Glenbrook, Conn.
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- EMMET, W. L. R. (1902), Cons. Engr., Gen. Elec. Co., and 48 Washington Ave., Schenectady, N. Y.
- EMORY, Frederick L. (1894), Life Member; Prof. Mech. and Applied Math., W. Va. Univ., Morgantown, W. Va.
- EMSWILER, John E. (Junior, 1908), Asst. Prof. M. E., Univ. of Mich., New Engrg. Bldg., and 1009 Church St., Ann Arbor, Mich.
- ENDICOTT, George (Junior, 1915), The Morgan Spring Co., and *for mail*, 18 Downing St., Worcester, Mass.
- ENDSLEY, Louis E. (1913), Prof. Ry. M. E., Univ. of Pittsburgh, and *for mail*, 516 East End Ave., Pittsburgh, Pa.
- ENGBLOM, Alexander (Associate-Member, 1914), M. E., Sidney Blumenthal & Co., and *for mail*, 116 Howe Ave., Shelton, Conn.
- ENGEL, Godfrey (1892), Constr. Engr., Am. Sugar Refining Co., of N. Y., foot of S. 4th St., and 126 Winthrop St., Brooklyn, N. Y.

- ENGEL, Louis G. (1887), 22 E. 47th St., New York, N. Y.
- ENGEL, Philip N. (Associate, 1913), V. P., Internatl. Filter Co., 38 S. Dearborn St., and 5048 Woodlawn Ave., Chicago, Ill.
- ENGLERT, Alfred (1915), M. E., Lidgerwood Mfg. Co., 96 Liberty St., New York, and *for mail*, 445 75th St., Brooklyn, N. Y.
- ENGLISH, Harry K. (Associate, 1908), V. P., Blue Grass Coal Corp., Hazard, Ky.
- ENGLISH, William T. (1902), Pres., Walworth-English-Flett Co., 100 Pearl St., Boston, and 1377 River St., Hyde Park, Mass.
- ENNIS, Herbert V. (Junior, 1910), Engrg. Dept., Am. Car & Fdy. Co., New York, N. Y., and *for mail*, 543 Broadway, Paterson, N. J.
- ENNIS, J. B. (1909), Ch. M. E., Am. Loco. Co., 30 Church St., New York, N. Y., and *for mail*, 615 E. 24th St., Paterson, N. J.
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- EPPLE, Edward C. (Junior, 1908), Ch. Draftsman, Turner Constr. Co., 11 Broadway, New York, N. Y., and *for mail*, 15 Fleet St., Jersey City, N. J.
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- ERICSON, Edward O. (Junior, 1913), Engr., Firestone Tire & Rubber Co., and *for mail*, 11 Ambrose Pl., Akron, O.; also Helmetta, N. J.
- ERICSON, John E. (1909), City Engr., Mem. Harbor and Subway Com., City of Chicago, 402 City Hall, and 848 Lakeside Pl., Chicago, Ill.
- ERLANDSON, E. W. (Junior, 1912), Traveling Sales Engr., The Annex Co., Knoxville, Tenn., and *for mail*, 570 44th St., Brooklyn, N. Y.
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- ERNSBERGER, Millard C. (1910), Prof. M. E., Univ. of Rochester, and 90 Park Ave., Rochester, N. Y.
- ERNST, Alfred F. (1909; 1914), M. M., Brighton Mills, and *for mail*, 157 Meade Ave., Passaic, N. J.
- ERRINGTON, Franklin A. (1906), Cons. M. E., Mfr. Mch. Tools, 39 Cortlandt St., New York; Lab., 24 Norwood Ave., and *for mail*, 31 Townsend Ave., Stapleton, S. I., N. Y.
- ERSKINE, John S. (Junior, 1912), Asst. Ch. Engr., Internatl. Harvester Co., and *for mail*, 151 13th St., Milwaukee, Wis.
- ERWIN, William W. (1910), Supt. Constr., The N. Y. Edison Co., Irving Pl. and 15th St., and 203 W. 81st St., New York, N. Y.
- ESHERICK, George, Jr. (Junior, 1915), Test Engr., Am. Engrg. Co., and *for mail*, 3926 Locust St., Philadelphia, Pa.
- ESHERICK, Joseph (Junior, 1914), M. E., Yarnall-Waring Co., Chestnut Hill, Philadelphia, and *for mail*, 161 W. Durham St., Philadelphia, Pa.
- ESSELSTYN, Horace H. (1909), Constr. Engr., The Edison Ill. Co. of Detroit, Whitney Bldg., and *for mail*, 65 Pingree Ave., Detroit, Mich.
- ESTABROOK, Harry M. (1913), Pres., The Barney & Smith Car Co., and 210 W. Monument Ave., Dayton, O.
- ESTABROOK, Mansfield (Junior, 1903), Niles-Bement-Pond Co., 111 Broadway, New York, N. Y.
- ESTEP, H. Cole (Junior, 1914), Engrg. Editor, The Penton Publishing Co., 12th and Chestnut Sts., Cleveland, and 1081 Summit Ave., Lakewood, O.

- ESTES, William W. (1891; 1904), Life Member; Designer, Genl. Fire Extinguisher Co., and *for mail*, 245 Waterman St., East Side Sta., Providence, R. I.
- ESTRADA, E. Duque (1893), Ch. Engr., Div. of Shops and Mchy., Maestranza, Havana, Cuba.
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- EVANS, Cadwallader, Jr. (1913), Asst. Genl. Supt. Coal Dept., Del. & Hudson Co., 37 Lackawanna Ave., and 1602 Munroe Ave., Scranton, Pa.
- EVANS, George B. (1914), Asst. Genl. Mgr., Ch. Engr., The Laclede Gas Light Co., 11th and Olive Sts., St. Louis, Mo.
- EVANS, Holden A. (1913), V. P., Genl. Mgr., Baltimore Dry Docks & Ship Bldg. Co., Locust Point, Baltimore, and 200 Edgevale Rd., Roland Park, Md.
- EVANS, Howard W. (1913), Mgr. Power Piping Dept., Walworth Mfg. Co., Boston, and 5 Fairbanks St., Brookline, Mass.
- EVANS, Wellington F. (1912), Pres., Stand. Screw Products Co., Bellevue and Warren Aves., Detroit, Mich.
- EVANS, William A. (1913), The Whitlock Coil Pipe Co., 149 Broadway, New York, N. Y.
- EVELETH, Charles E. (1914), Commer. Engr. Car Equip., Genl. Elec. Co., and *for mail*, 111 Parkwood Blvd., Schenectady, N. Y.
- EWEN, John M. (1887), 4 W. 31st St., New York, N. Y.
- EYERMANN, Peter (1908), Genl. Supt., Austrian Steel Industry Co., Brux, Bohemia, Austria.
- EYNON, Thomas M. (1902), Pres., Eynon-Evans Mfg. Co., 15th and Clearfield Sts., and 1426 Allegheny Ave., Philadelphia, Pa.
- EYRE, Thomas T. (1915), Asst. Prof. M. E., Purdue Univ., Lafayette, Ind.
- FABENS, Andrew L. (Junior, 1911), Supt., The U. S. Aluminum Co., Edgewater, N. J.
- FABER, John P. (Junior, 1908), Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y., and *for mail*, Dunellen, N. J.
- FABER du FAUR, Adolph (1880), Life Member; 58 Seymour Ave., and 17 Farley Ave., Newark, N. J.
- FAIG, John T. (1897; 1905), Prof. M. E., Univ. of Cincinnati, and 3315 Whitfield Ave., Cincinnati, O.
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- FAIR, Charles (1913), Engr. Power and Min. Engrg. Dept., Genl. Elec. Co., Schenectady, N. Y.
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- FAIRFIELD, Howard P. (1901), Asst. Prof. Mch. Constr., Worcester Poly. Inst., and *for mail*, 1 Dayton St., Worcester, Mass.
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- FALES, George L. (Associate-Member, 1914), Ch. Engr., Raritan Copper Wks., and 42 Market St., Perth Amboy, N. J.
- FALES, Henry H. (1913), Genl. Supt., Champlain Silk Mills, 377 Fourth Ave., New York, N. Y.
- FALKENAU, Arthur (1886), Industrial and Cons. Engr., 165 Broadway, and *for mail*, 911 Park Ave., New York, N. Y.
- FALLON, John (Junior, 1910), Genl. Mgr., British Mills, Cornwall Rd., Smethwick, England.
- FALLON, John B. (Junior, 1905), Treas., Stickney & Poor Spice Co., 184 State St., and 138 Marlboro St., Boston, Mass.
- FANNON, Wm. A. (1907), V. P., Mgr., Inter-Lake Pulp & Paper Co., and *for mail*, 460 Alton St., Appleton, Wis.
- FARKELL, George C. (1913), Supt. Rail Mill and Mech. Dept., The Natl. Tube Co., Lorain, and *for mail*, 31 The Colonial, Elyria, O.
- FARLEY, Ernst W. (1913), Pres., Richmond Engrg. Co., 12 S. 8th St., Richmond, and 707 Brook Turnpike, Ginter Park, Richmond, Va.
- FARMER, F. Malcolm (1915), Ch. Engr., Elec. Testing Labs., 80th St. and East End Ave., New York, N. Y.
- FARMER, John T. (1902; 1913), Mech. and Hyd. Engr., 314 Coristine Bldg., Montreal, and 334 Lansdowne Ave., Westmount, Que., Canada.
- FARMER, Thomas (1891), Warner & Swasey Co., 1614 Ford Bldg., Detroit, Mich.
- FARNHAM, Thaddius L. (1914), The Scranton Pump Co., Scranton, Pa.
- FARQUHAR, Edmund H. (1910), Supt., Genl. Elec. Co., Schenectady, N. Y.
- FARQUHAR, Francis (1907), Genl. Mgr., A. B. Farquhar Co., Ltd., York, Pa.
- FARR, Arthur V. (Junior, 1913), M. E., Engrg. Supv. Co., 366 Fifth Ave., New York, N. Y., and *for mail*, 39 Clinton Ave., Maplewood, N. J.
- FARR, Roy S. (Junior, 1913), Instr. Drawing and Design, Univ. of Pa. and *for mail*, 3905 Walnut St., Philadelphia, Pa.
- FARRAND, Dudley (1895; 1905), Genl. Mgr., Pub. Sêrv. Elec. Co., 759 Broad St., and 49 Lincoln Park, Newark, N. J.
- FARRAR, Chas. O. (1902), Supt. Constr., Otis Elev. Co., 34 India St., and *for mail*, 10 Thurston St., Winter Hill Sta., Boston, Mass.
- FARRAR, Edward (1907), Cons. M. E., Genl. Min. and Finance Corp., and *for mail*, Box 1242, Johannesburg, Transvaal, S. A.
- FARRELL, Frederick L. (Junior, 1913), N. Y. Mgr., The Green Fuel Economizer Co., 90 West St., New York, N. Y.
- FARRELL, Morgan G. (Junior, 1913), Willard Case & Co., Whitehall Bldg., New York, and *for mail*, 128 Primrose Ave., Mt. Vernon, N. Y.
- FARRELL, W. Elliston (1900), Pres., Easton Car & Constr. Co., and cor. Pierce and Broadhead Sts., Easton, Pa.; also, Pres., Am. Die & Tool Wks., Reading, Pa.
- FARRINGTON, Thomas H. (1912; Associate-Member, 1913), C. and M. E., Owego, Tioga Co., N. Y.
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- FAST, Jacob J. (Associate, 1912), Internatl. Harvester Co., P. O. Box 1131, Moscow, Russia.
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- FAULL, Richard (1907), M. E., Tenn. Coal, Iron & R. R. Co., and 1501 Minnesota Ave., Bessemer, Ala.

- FAWCUS, Thomas (1913), Pres., Fawcus Mch. Co., 2828 Smallman St., and *for mail*, 6118 Jackson St., E. E., Pittsburgh, Pa.
- FEAGLES, Ralph L. (1912), Deister Mch. Co., E. Wayne St., Fort Wayne, Ind.
- FEELEY, Frank G. (1916), Chicago Mgr., M. D. Knowlton Co., 856 W. Adams St., Chicago, Ill.
- FEHR, Roy B. (Junior, 1914), Asst. Prof. M. E., Pa. State College, State College, Pa.
- FEICHT, Edward R. (Junior, 1907), Ch. Engr., Sacramento Valley Sugar Co., Hamilton City, Cal.
- FEICHT, Russell S. (1914), Mgr. of Engrg., Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.
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- FEKETE, Stephen I. (Junior, 1910), 743 Waterloo St., Detroit, Mich.
- FELDMAN, Abram M. (1900), Cons. Engr., 120 Liberty St., and 201 W. 107th St., New York, N. Y.
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- FELKER, George F. (1913; Associate-Member, 1915), N. Y. Rep., Pittsburgh Valve, Fdy. & Constr. Co., Inc., 30 Church St., New York, N. Y.
- FELL, Hugh P. (Associate-Member, 1916), Mech. Div. Ch., Elec. Bond & Share Co., 71 Broadway, New York, N. Y., and Morse Pl., Englewood, N. J.
- FELLMETH, J. W. (1913), Asst. Engr., The Marion Steam Shovel Co., Marion, O.
- FELLOWS, Edwin R. (1898), Mgr., The Fellows Gear Shaper Co., Springfield, Vt.
- FELTON, Edgar C. (1885), Manager, 1898-1901; Pres., Penn Steel Co., Morris Bldg., Philadelphia, and *for mail*, Haverford, Pa.
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- FENN, Robert H. (Associate-Member, 1916), Engr., Pur. Agt., Kent Mill Co., 10 Rapelyea St., Brooklyn, and *for mail*, Suffern, N. Y.
- FENNER, David C. (1906), Genl. Vehicle Co., Inc., 42d St. Bldg., New York, N. Y., and 1200 Denmark Rd., Plainfield, N. J.
- FENSTERMAKER, Sidney E. (1914), Junior Partner, Weinshank & Fenstermaker, 821 Hume-Mansur Bldg., Indianapolis, Ind.
- FERGUS, William L. (1903; 1906), W. L. Fergus & Co., 1509 Fisher Bldg., and 4030 Clarendon Ave., Chicago, Ill.
- FERGUSON, Hardy S. (1899), Cons. Engr., 200 Fifth Ave., New York, N. Y.
- FERGUSON, Hugh M. (1916), M. E., Missoula Light & Water Co., and *for mail*, 414 Edith St., Missoula, Mont.
- FERGUSON, J. W. (1891), Engr., Bldg. Contr., 152 Market St., and 12th and 28th St., Paterson, N. J.; also 253 Broadway, New York, N. Y.
- FERGUSON, Milford B. (1912), 2491 Bedford Ave., Brooklyn, N. Y.
- FERGUSON, Richard (1915), Mgr., The Grant-Lees Gear Co., and *for mail*, 2053 E. 88th St., Cleveland, O.
- FERGUSON, Smith F. (1915), Cons. Engr., Mem. of Firm, Nicholas S. Hill, Jr. & S. F. Ferguson, 100 William St., New York, N. Y.
- FERGUSON, W. Craig (1912; Associate-Member, 1914), V. P., Treas., Asst. Mgr., Walla Walla Iron Wks., Walla Walla, Wash.
- FERGUSON, David (1915), M. E., Pierce-Arrow Motor Car Co., Buffalo, N. Y.
- FERMIER, Emile J. (1908), Prof. M. E., Agri. and Mech. College of Tex., College Sta., Tex.

- FERNALD, Robt. H. (1900; 1903), Whitney Prof. Dynamical Engrg., Univ. of Pa., Cons. Engr., U. S. Bureau of Mines, Philadelphia, and 6386 Woodbine Ave., Overbrook, Philadelphia, Pa.
- FERRARI, Carl (1916), M. E., Erie City Iron Wks., and *for mail*, Route 8, Erie, Pa.
- FERRIER, Walter (1908), Asst. Supt., Am. Vanadium Co., Bridgeville, and 4 Maple Ave., Carnegie, Pa.
- FERRIS, Charles E. (1904), Prof. M. E., Dean of Engrg., Univ. of Tenn., and 1312 White Ave., Knoxville, Tenn.
- FERRIS, Walter (1907), Ch. Engr., Bucyrus Co., South Milwaukee, and *for mail*, 710 Prospect Ave., Milwaukee, Wis.
- FERRY, Ralph M. (Junior, 1912), U. S. Aluminum Co., New Kensington, Pa.
- FESSENDEN, Charles H. (Junior, 1909), Asst. Prof. M. E., Univ. of Mich., 333 New Engrg. Bldg., and 721 S. Ingalls St., Ann Arbor, Mich.
- FESSENDEN, Edwin A. (1908; 1914), Assoc. Prof. M. E., Univ. of Mo., 112 Engrg. Bldg., and *for mail*, 1517 Ross St., Columbia, Mo.
- FEYBUSCH, Martin (1914), V. P., Treas., Jagenberg Mch. Co., Inc., 131 W. 24th St., New York, N. Y.
- FICHTER, Clarence (Associate-Member, 1915), Combustion Engr., The Toledo Sugar Co., Toledo, and *for mail*, 8368 Burns Ave., Hartwell, Cincinnati, O.
- FICKES, Edwin S. (Associate, 1902), Engr., Pur. Agt., Aluminum Co. of Am., and *for mail*, 1269 Murray Hill Ave., Pittsburgh, Pa.
- FICKINGER, P. J. (1888), M. E., P. & C. Dock Co., Conneaut, O.
- FIELD, Alfred F., Jr. (Associate, 1914), Asst. to Mgr., The Stanley Wks., Bridgewater, Mass.
- FIELD, Allan Bertram (1913), Municipal Sch. of Tech., Whitworth St., Manchester, and "Kingslea," Strines Rd., Marple, Cheshire, England.
- FIELD, Freeman (Associate, 1910), Pres., The Field-Olds Co., 1618 Walnut Ave., and 8314 Euclid Ave., Cleveland, O.
- FIELD-FRANK, Crosby (Junior, 1915), Stand. Aniline Products, Inc., Wappingers Falls, N. Y.
- FIFER, A. J. J. (1914), Cons. Engr., 3 St. Helen's Pl., London, E.C., England.
- FILLINGHAM, Myles P. (1908), Cons. and Contr. Engr., 50 Church St., New York, N. Y., and 104 N. Cliff St., Ansonia, Conn.
- FINCH, Ellis J. (Junior, 1911), 260 W. 136th St., New York, N. Y.
- FINDLEY, William D. (Associate, 1913), Ch. Engr., Webster Mfg. Co., and 276 E. Market St., Tiffin, O.
- FINE, Bernard M. (Junior, 1914), Ch. Tool Designer, Am. Steam Gage & Valve Mfg. Co., 220 Camden St., and 144 Huntington Ave., Boston, Mass., and *for mail*, 1913 Christian St., Philadelphia, Pa.
- FINK, Emil C. (1913; 1914), V. P., Internatl. Motor Co., 64th St. and West End Ave., New York, N. Y., and *for mail*, 1339 Watchung Ave., Plainfield, N. J.
- FINKLE, Frederick C. (1914), Cons. Engr., Mech., Hydro-Elec. and Water Wks., 448-449 I. W. Hellman Bldg., and 407 W. 31st St., Los Angeles, Cal.
- FINLAYSON, Edward H., Jr. (Junior, 1913), Asst. Engr., The Am. Stoker Co., 11 Broadway, and *for mail*, 102 W. 84th St., New York, N. Y.
- FINLEY, A. D. (1898; Associate, 1903), Designing Engr., Russell, Burdsall & Ward Bolt & Nut Co., and *for mail*, 206 Leicester St., Fairmont Park, Port Chester, N. Y.
- FIRESTONE, Sigmund (1912), Cons. M. and E. E., Granite Bldg., and 293 Dartmouth St., Rochester, N. Y.
- FIRMSTONE, Frank (1880), Easton, Pa.

- FIRTH, William E. (1893), Safety Engr., Midvale Steel Co., Box 1606, Philadelphia, and 523 Hansberry St., Germantown, Philadelphia, Pa.
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- FISH, Edwards R. (1914), Secy., Heine Safety Boiler Co., 2449 E. Marcus Ave., St. Louis, and 229 Rosemont Ave., Webster Groves, Mo.
- FISII, Matthew R. (Junior, 1914), Cost Estimator, Am. Steel & Wire Co., 94 Grove St., and *for mail*, 24 Clearview Ave., Worcester, Mass.
- FISHER, Elbert Clement (1913), Ch. Draftsman, Barrett Mfg. Co., 17 Battery Pl., New York, N. Y.
- FISHER, Elbert Curtiss (1891; 1913), V. P., Genl. Mgr., Wickes Boiler Co., and 308 N. Jefferson Ave., Saginaw, Mich.
- FISHER, Francis P. (1915), Asst. Genl. Mgr., Wichita Natural Gas Co., First Natl. Bank Bldg., Bartlesville, Okla.
- FISHER, Henry D. (1907; 1914), M. E., Bailey Meter Co., 141 Milk St., Boston, and 338 Lake Ave., Newton Highlands, Mass.
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- FISIHER, James P. (1914), Ch. Engr., Quapaw Gas Co., Bartlesville, Okla.
- FISIHER, John (1910), Ch. Engr., Hartford Dist., The Conn. Co., and *for mail*, 45 Webster St., Hartford, Conn.
- FISHER, Robert R. (Junior, 1915), Factory Clerk, Albaugh-Dover Co., Marshall Blvd. and 21st St., and *for mail*, 3210 Arthington St., Chicago, Ill.
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- FITCH, Walter S. (1914), Constr. Engr., Dennison Mfg. Co., and *for mail*, 13 Dennison Ave., Framingham, Mass.
- FITTS, Edwin (1915), Engr., Detroit Stoker Co., Detroit, Mich.
- FITTS, James L. (1913), Factory Mgr., Warren Webster & Co., Point and Pearl Sts., Camden, and *for mail*, 103 W. Cedar Ave., Merchantville, N. J.
- FITZ, Erwin M. (Junior, 1901), E. E. M. P. Dept., Pa. Lines West of Pittsburgh, New First Natl. Bank Bldg., and 35 N. 9th St., Columbus, O.
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- FLAD, Edward (1891), Cons. Engr., De Menil Bldg., and 5575 Waterman Ave., St. Louis, Mo.
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- FLAGG, Charles N., Jr. (1915), Secy., The Taylor-Flagg Co., 27 State St., and 23 Lambert Ave., Meriden, Conn.
- FLAGG, Samuel B. (Junior, 1907), Engr., U. S. Bureau of Mines, 40th and Butler Sts., Pittsburgh, and Savoy Apts., Coal St. and Rebecca Ave., Wilkensburg, Pa.
- FLAGG, Stanley G., Jr. (1891), Manager, 1910-1913; S. G. Flagg & Co., 1421 Chestnut St., Philadelphia, Pa.
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- FLANDERS, Warren B. (1915), Supt. of Power, Havana Elec. Ry., Light & Power Co., Monte 1, Havana, Cuba.
- FLANIGAN, Edwin B. (Junior, 1913), Asst. to M. M. Spring Wks., Sheldon Axle Co., and 65 W. South St., Wilkes-Barre, Pa.
- FLANNER, Douglas D. (1915), Treas., Genl. Mgr., Flanner Water Tube Co., 518-519 Second Natl. Bank Bldg., Akron, O.
- FLANNERY, John M. (1907), Solvay Process Co., and *for mail*, 1628 W. Genesee St., Syracuse, N. Y.
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- FLEMING, Robert F. (Junior, 1913), Sterrett & Fleming, 707 Evans Bldg., Washington, D. C.
- FLEMING, Wills M. (1905; 1909), Engr. Charge Drawing Rm., Deane Steam Pump Co., and *for mail*, 370 Maple St., Holyoke, Mass.
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- FLETCHER, Fred (1914), 602 W. Walnut St., Lancaster, Pa.
- FLETCHER, James R. (1906), Genl. Supt., P. & F. Corbin Mfg. Co., and *for mail*, 6 Cedar St., New Britain, Conn.
- FLETEMEYER, Louis H. (Junior, 1906), Sales Dept., A. R. Williams Mch. Co., Ltd., and *for mail*, 163 Grenadier Rd., Toronto, Ont., Canada.
- FLEXER, Samuel E. (1914), 642 N. 9th St., Allentown, Pa.

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- FOGARTY, Michael (1915), Pres., Owner, Michael Fogarty, Inc., 527-535 W. 33d St., New York, and 119 Russell St., Brooklyn, N. Y.
- FOGARTY, Michael J. (1915), Mgr., Prop. Mch. Shop, 38-40 Harrison St., and *for mail*, 560 Henry St., Brooklyn, N. Y.
- FOGARTY, William J. (1911), M. E., Barney & Smith Car Co., and *for mail*, 74 Fountain Ave., Dayton, O.
- FOGG, Oscar H. (1907; 1913), Engr. of Utilization, Consld. Gas Co. of N. Y., 128 E. 15th St., New York, N. Y.
- FOGLER, Ben B. (Junior, 1912), Efficiency Engr., Ludlow Mfg. Associates, Lock Box 88, and 52 North St., Ludlow, Mass.
- FOLEY, Leonard H. (Junior, 1912), Stone & Webster Engrg. Corp., 147 Milk St., Boston, and *for mail*, 52 W. Central St., Natick, Mass.
- FOLEY, Walter J. (Junior, 1910), M. E., San Francisco Bridge Co., 1005 Nevada Bank Bldg., and *for mail*, 166 23d Ave., San Francisco, Cal.
- FOLLER, Chas. S. (1906), Mgr. of Sales, Union Spring & Mfg. Co., 2408 First Natl. Bank, and *for mail*, 6609 Dalzell Pl., E.E., Pittsburgh, Pa.
- FOLSOM, Eugene L. (1913), Supt. Statistics, Waltham Watch Co., and *for mail*, 101 Washington Ave., Waltham, Mass.
- FONDA, Burton C. (Junior, 1912), Thomas Crimmins Contr. Co., 444 E. 69th St., New York, and *for mail*, 118 Division St., New Rochelle, N. Y.
- FOORD, James L. (1915), Ch. Insp., Hartford Steam Boiler Inspc. & Ins. Co., Rm. 800, 160 W. Jackson Blvd., and 5413 Dorchester Ave., Chicago, Ill.
- FOOTE, Andrew W. (1900), Pres., Foote Burt Co., 4100-4109 St. Clair St., Cleveland, and Gates Mills, Cuyahoga Co., O.
- FORAN, George J. (1887; 1893), Mgr. Condenser Dept., Internatl. Steam Pump Co., and *for mail*, 471 Central Park W., New York, N. Y.
- FORBES, Harry R. (Associate, 1911), East. Rep., Lumen Bearing Co., Rm. 573, 50 Church St., New York, N. Y.
- FORBES, W. D. (1886), 236 Hempstead St., New London, Conn.

- FORBUSH, Franklin L. (1915), State Inspr. of Boilers, Examiner of Engrs., Commonwealth of Mass., 68 Main St., and *for mail*, 93 Brooklyn St., North Adams, Mass.
- FORD, Bruce (1907), Fourth V. P., The Elec. Storage Battery Co., 19th St. and Allegheny Ave., Philadelphia, and 25 Summit St., Chestnut Hill, Philadelphia, Pa.
- FORD, Henry (1915), Pres., Ford Motor Co., Detroit, Mich.
- FORD, Henry R. (1914), V. P., Charge of Engrg., McCarthy Bros. & Ford, 41-43 E. Eagle St., and *for mail*, 114 Windsor Ave., Buffalo, N. Y.
- FORD, John D. (1884), Rear Admiral, U. S. N., 2319 Maryland Ave., Baltimore, Md.
- FORD, William L. (1911), N. E. Sales Mgr., Murphy Iron Wks., 201 Devonshire St., Boston, Mass.
- FORD, Winthrop D. (Associate-Member, 1914), Mech. and Sales Engr., Internatl. Steam Pump Co., 200 Devonshire St., Boston, Mass.
- FORDYCE, John R. (1899), Cons. Engr., Cotton Ginning Conveying and Compressing Mchy., Box 346, Hot Springs, Ark.
- FORFAR, Donald M. (Junior, 1913), M. E., Minneapolis Mgr., Charles L. Pillsbury Co., 805 Metropolitan Life Bldg., and 3121 Lyndale Ave., S., Minneapolis, Minn.
- FORGY, J. Edmonds (1906; 1913), Ch. Engr., Charles Warner Co., Du Pont Bldg., and 1314 Van Buren St., Wilmington, Del.
- FORNEY, J. Raymond (Associate-Member, 1915), Sales Engr., The Ralston Steel Car Co., 1521 Munsey Bldg., and *for mail*, Canterbury Hall, 39th and Oak Sts., Baltimore, Md.
- FORREST, George M. (1912), Remington Typewriter Co., 293 Broadway, and 454 Riverside Drive, New York, N. Y.
- FORSBURG, Henry A. (1911), Genl. Supt. Trunk Lines, Stand. Oil Co. of Cal., San Pablo, and 1616 Josephine St., Berkeley, Cal.
- FORSTALL, Alfred E. (1899), Cons. Engr., 84 William St., New York, N. Y., and Montclair, N. J.
- FORSYTH, James M. (Junior, 1914), Allis-Chalmers Mfg. Co., Milwaukee, and *for mail*, Allis-Chalmers University Club, 5031 National Ave., West Allis, Wis.
- FORSYTH, Robert (1881), Manager 1891-1894; Cons. Engr., 1159 The Rookery, Chicago, Ill.
- FORSYTH, William (1883), Manager, 1888-1891; M. E., 112 Moreland Ave., Chestnut Hill, Pa.
- FORTÉ, Harry P. (1912; Associate-Member, 1913), M. E., Beech-Nut Packing Co., Canajoharie, N. Y.
- FORTMANN, Edward (Junior, 1914), M. E., N. Y. Transit Co., Press Bldg., Binghamton, N. Y.
- FORTNEY, Camden P. (Associate-Member, 1913), Asst. Engr., U. S. A. Engrs., Box 72, Louisville, Ky., and 10 Grow Ave., Montrose, Susquehanna Co., Pa.
- FORTUIN, Morris (1914), Wks. Mgr., Pa. Cement Co., Nazareth, Pa.
- FORTUNE, John R. (1912), 185 Boston Blvd., W., Detroit, Mich.
- FOSDICK, Frederick (1914), Pres., Fitchburg Steam Eng. Co., and 98 Pleasant St., Fitchburg, Mass.
- FOSTER, C. H. (1886), Life Member; Treas., Tolhurst Mch. Wks., and *for mail*, 31 Belle Ave., Troy, N. Y.
- FOSTER, Charles C. (Junior, 1915), Spec. Agt., Fidelity & Casualty Co., 406 Ellicott Sq., Buffalo, N. Y., and *for mail*, 37 Van Houten Pl., Belleville, N. J.
- FOSTER, Ernest H. (1885; 1894), V. P., Power Spec. Co., 111 Broadway, New York, N. Y.

- FOSTER, Frank A. (1915), Instr. Manual Training and Drawing, Chihli Higher Normal College, Paotingfu, Chihli, China.
- FOSTER, Jed S. (1891; 1903), Engr., Lidgerwood Mfg. Co., 96 Liberty St., New York, N. Y., and Stoneleigh Park, Westfield, N. J.
- FOSTER, John M. (1900), Pres., Genl. Mgr., Foster Engrg. Co., 109 Monroe St., Newark, N. J., and Hotel Marie Antoinette, New York, N. Y.
- FOSTER, Robert J. (Junior, 1915), M. E., Eberhard Faber Pencil Co., 39 Greenpoint Ave., and *for mail*, 1114 Lorimer St., Brooklyn, N. Y.
- FOSTER, Rufus J. (Associate, 1890), V. P., Internatl. Text Book Co., Managing Editor, The Colliery Engineer, 434 Wyoming Ave., and 807 Clay Ave., Scranton, Pa.
- FOSTER, William B. (1908), V. P., Ch. Engr., Foster Bros. Mfg. Co., and 79 Oneida St., Utica, N. Y.
- FOURNIER, Thomas F. (Associate-Member, 1915), Genl. Mgr., The Stand. Mch. Co., Mystic, Conn.
- FOWDEN, William (1913), Supt., Dewey Portland Cement Co., and Dewey Hotel, Dewey, Okla.
- FOWLER, Geo. L. (1886), Cons. M. E., 83 Fulton St., New York, N. Y.
- FOWLER, Wallace S. (Junior, 1912), Draftsman, McIntosh & Seymour Co., and *for mail*, 38 Chedell Pl., Auburn, N. Y.
- FOX, Charles H. (1909), Pres., Ahrens-Fox Fire Eng. Co., Alfred and Cook Sts., Cincinnati, and *for mail*, 3547 Shaw Ave., Hyde Park, Cincinnati, O.
- FOX, Sir Douglas (Honorary, 1900), Head of Firm, Messrs. Sir Douglas Fox and Partners, 56 Moorgate St., London, E. C., and Kippington Grange, Sevenoaks, Kent, England.
- FOX, John H. (1904), Ch. Engr., Pittsburgh Plate Glass Co., Frick Bldg., Pittsburgh, Pa.
- FOX, Royal E., Jr. (1901; 1911), V. P., The Engr. Co., 50 Church St., and 324 W. 84th St., New York, N. Y.
- FOX, Rudolph H. (Junior, 1913), Exper. Engr., Fafnir Bearing Co., New Britain, and *for mail*, 54 Oak St., Hartford, Conn.
- FOX, William (1900), Prof. Physics, College of the City of N. Y., 139th St. and Convent Ave., and *for mail*, 575 W. 183d St., New York, N. Y.
- FRAIM, Samuel R. (1913), Secy., M. E., The E. T. Fraim Lock Co., and *for mail*, 551 N. Lime St., Lancaster, Pa.
- FRALICH, John S. Y. (Associate-Member, 1916), Asst. Res. Engr., The Westinghouse Air Brake Co., 827 Ry. Exch., and 1411 Arthur Ave., Chicago, Ill.
- FRANCE, Laurel E. (Junior, 1912), 1008 Santee St., Los Angeles, Cal.
- FRANCIS, Charles A. (Associate, 1906), Genl. Elec. Co., Pittsfield, Mass.
- FRANCIS, Ira J. (Associate, 1915), Sales Agt., John A. Roebling's Sons Co., 216 S. Alameda St., Los Angeles, Cal.
- FRANCIS, Isaac H. (1911), Cons. Engr., 1508 Commonwealth Trust Bldg., Philadelphia, and Grant and Milnor Sts., Torresdale, Philadelphia, Pa.
- FRANCIS, W. H. (1884), Union League, Philadelphia, Pa.
- FRANCISCO, Ferris L. R. (1906; 1912), Cons. Engr., Rm. 1252, 200 Fifth Ave., New York, N. Y., and 416 Bergen Ave., Jersey City, N. J.
- FRANK, Edwin (Junior, 1909), Instr. M. E., Univ. of Ill., Urbana, and *for mail*, 1113 Arbor St., Champaign, Ill.
- FRANKENBERG, George T. (Associate, 1907), Contr., Normandie Hotel, Columbus, O.
- FRANKLIN, Benjamin A. (1913), V. P., Strathmore Paper Co., Mittineague, and 36 Bellevue Ave., Springfield, Mass.

- FRANKLIN, Edward J. (1913), Cons. M. E., Ray Consltd. Copper Co., Chino Copper Co., Box 878, Hayden, Ariz., and *for mail*, 1610 W. 10th St., Los Angeles, Cal.
- FRANKLIN, Paul A. (Junior, 1915), Supt. Newark Warehouse, Am. Sanitary Wks., Harrison, N. J., and *for mail*, 281 Westminster Rd., Brooklyn, N. Y.
- FRANKS, Fredk. B. (1904), Mgr. Operating and Constr. Cement Plant, Bath Portland Cement Co., Bath, Pa.
- FRANZ, Walter G. (1907), Cons. Engr., Union Trust Bldg., and 2613 Eden Ave., Cincinnati, O.
- FRASER, D. Ross (1907; 1916), V. P., Supt., Chicago Portland Cement Co., Oglesby, Ill.
- FRASER, Norman D. (1886), Pres., Chicago Portland Cement Co., 30 N. La Salle St., and *for mail*, 2928 Washington Blvd., Chicago, Ill.
- FRAZAR, Everett W. (1914), Frazar & Co., 50 Church St., New York, N. Y., and *for mail*, Sale & Frazar, Ltd., P. O. Box 18, Tokio, Japan.
- FREAR, Jenness B. (Associate-Member, 1914), College of Engrg., Univ. of Minn., Minneapolis, Minn.
- FRECHTLING, Arthur G. (Junior, 1906), 216 N. C St., Hamilton, O.
- FREDETTE, John (1915), Supt. Tools and Equip., Westinghouse Mch. Co., East Pittsburgh, and 1304 Center St., Wilkimsburg, Pa.
- FREEMAN, Benjamin W. (Junior, 1916), Mgr., The Benjamin W. Freeman Co., 16th and Morgan Sts., and 5798 Berlin Ave., St. Louis, Mo.
- FREEMAN, Clarke F. (Junior, 1915), Dorchester Dist., Boston Insulated Wire & Cable Co., Boston, Mass., and 235 Arlington Ave., Providence, R. I.
- FREEMAN, Frederick C. (Junior, 1911), United Gas Improvement Co., Broad and Arch Sts., Philadelphia, Pa.
- FREEMAN, Frederick S. (1915), Supt. Power Operation, Boston Elev. Ry. Co., 439 Albany St., Boston, Mass.
- FREEMAN, Herbert A. (1915), Mech. and Designing Engr., Local Mgr., G. M. Davis Regulator Co., 123 Liberty St., New York, and *for mail*, 45 Rutland Rd., Brooklyn, N. Y.
- FREEMAN, Herbert S. (Junior, 1915), 1515 W. Monroe St., Chicago, Ill.
- FREEMAN, J. Porter (1908), Constr. Engr., Alex. Smith & Sons, and *for mail*, 225 Woodworth Ave., Yonkers, N. Y.
- FREEMAN, John R. (1887), Vice-President, 1902-1904; President, 1905; Pres., Mfrs. Mut. Fire Ins. Co., 815 Grosvenor Bldg., and 235 Arlington Ave., Providence, R. I., and Cons. Engr., N. Y. Bd. of Water Supply, Municipal Bldg., New York, N. Y.
- FREEMAN, Lewis D. (Junior, 1913), Shop Supt., Seaboard Air Line Ry., and 33 Dinwiddie St., Portsmouth, Va.
- FREEMAN, Perry J. (1908; Associate-Member, 1914), Asst. Prof. Applied Mech. Engrg. Div., Kan. State Agri. College, Manhattan, Kan.
- FREEMAN, Roger M. (Junior, 1913), Turner Constr. Co., 11 Broadway, New York, N. Y., and 235 Arlington Ave., Providence, R. I.
- FREEMAN, William J. (1913), Mem. of Firm, Sloan Huddle Feustel & Freeman, Madison, Wis.
- FREER, William G. (1914), Power Engr., Am. Loco. Co., and *for mail*, 104 Jay St., Schenectady, N. Y.
- FRENCH, Edward V. (1905), V. P., Engr., Arkwright Mut. Fire Ins. Co., 31 Milk St., Boston, and Andover, Mass.
- FRENCH, Lester G. (1899; 1912), Editor, Am.Soc.M.E., 29 W. 39th St., New York, and 70 Fisher Ave., White Plains, N. Y.
- FRESHNEY, Samuel A. (1913), Genl. Mgr., Grand Rapids-Muskegon Power Co., Grand Rapids, Mich.

- FREUND, Walter F. W. (Junior, 1913), India Rubber Co., Washington and Peace Sts., New Brunswick, N. J.
- FREVERT, H. F. (Associate, 1893), Pres., Treas., Frevert Mchy. Co., 38 Vesey St., New York, N. Y.
- FREYN, Heinrich J. (1906), M. E., 348 Peoples Gas Bldg., and *for mail*, 5201 Harper Ave., Chicago, Ill.
- FRICK, Abraham O. (1885), Pres., The Frick Co., and *for mail*, Clayton Ave., Waynesboro, Pa.
- FRICK, John (Associate-Member, 1914), M. E., Supt. Mchy. Dept., Horn & Hardart Baking Co., 21 S. 11th St., and *for mail*, 1808 W. Camac St., Philadelphia, Pa.
- FRIED, Jerome A. (Junior, 1914), M. E., 203 Highland Ave., Ithaca, N. Y.
- FRIEDLANDER, Max (Associate-Member, 1915), 243 E. 48th St., New York, N. Y.
- FRIEDMAN, Ferdinand J. (Junior, 1913), Engr., Contr., 357 St. Catherine St., W., and 144 Drummond St., Montreal, Que., Canada.
- FRINK, Francis G. (1913), Secy., Wash. Iron Wks., and 140 40th Ave., Denny Blaine Park, Seattle, Wash.
- FRINK, Gerald (1913), V. P., Mgr., Wash. Iron Wks., and 403 31st Ave., S., Seattle, Wash.
- FRITTS, Charles E. (1915), E. E., Metro. St. Ry. Co., 1500 Grand Ave., Kansas City, Mo.
- FRITZ, Aimé L. G. (Junior, 1907), Supt. Constr. New Burlington Power Sta., Pub. Serv. Elec. Co., Burlington, N. J., and *for mail*, 99 Elmwood St., Woodhaven, N. Y.
- FROELICH, Freddy (1913), Secy., Vercin deutscher Maschinenbau Anstalten, Hardenbergstr. 3, and Reichskanzlerplatz 4, Charlottenburg, Germany.
- FROHRIEB, Louis C. (1913), Federal Engrg. Co., 1116 House Bldg., and 1107 Peermont Ave., Dormant Boro, Pittsburgh, Pa.
- FROMMEYER, R. Erich (1913), Pres., Genl. Mgr., The Schaeffer & Budenberg Mfg. Co., and *for mail*, 338 Berry St., Brooklyn, N. Y.
- FROST, Edward J. (1908), Pres., Genl. Mgr., Frost Gear & Mch. Co., Horton and Tyson Sts., and 301 First St., Jackson, Mich.
- FROST, Frank G. (1913), Genl. Supt., Houston Ltg. & Power Co., 1201 Capitol Ave., and 305 Hathaway Ave., Houston, Tex.
- FROST, Harwood (1910), Pres., Brown Portable Elev. Co., 10 S. La Salle St., and 4756 Kenmore Ave., Chicago, Ill.
- FROST, Vincent M. (1914), Engr., Plant Dept., Pub. Serv. Elec. Co., Broad and Bank Sts., Newark, and *for mail*, 30 Emerson St., East Orange, N. J.
- FRY, Alfred B. (1892), Ch. Engr., U. S. Treas. Serv., Cons. Engr., Asso. for Protection of the Adirondaeks, U. S. Custom House Bldg., New York, N. Y.
- FRY, H. Skillman (Associate-Member, 1915), Div. Supt., H. C. Fry Glass Co., P. O. Box 247, and 334 Deer Lane, Rochester, Pa.
- FRY, Lawford H. (1905), Supt. of Product, Stand. Steel Wks. Co., Burnham, Pa.
- FRY, Thomas W. (1904), Secy., Wks. Mgr., Sullivan Mchy. Co., Claremont, N. H.
- FRYER, Geo. G. (1891), Cons. Engr., 203 Onondaga Ave., Syracuse, N. Y.
- FUCHS, Herman (1909), Mgr. Mexican Dept., Fairbanks, Morse & Co., 801 Clark Ave., and *for mail*, 3910 Cleveland Ave., St. Louis, Mo.
- FULLER, Allen J. (1901), Supt., Bureau of Water, City Hall, and *for mail*, 3406 Baring St., Philadelphia, Pa.
- FULLER, Arthur A. (1912), 19 Hawthorne Ave., East Providence, R. I.

- FULLER, Benjamin D. (1910), Supt. of Foundries Cleveland and Allegheny City Wks., Westinghouse Elec. & Mfg. Co., Box 382, Cleveland, and 1511 Ellbur Ave., Lakewood, O.
- FULLER, Charles E. (1915), Supt. M. P. and Mch., Union Pac. R. R. Co., 505 U. P. Headquarters Bldg., Omaha, Neb.
- FULLER, Charles Edward (1912), Prof. Theoretical and Applied Mech., Mass. Inst. of Tech., Boston, and Wellesley, Mass.
- FULLER, Floid M. (Junior, 1907), Cons. Engr., 812-814 Torrey Bldg., and Y. M. C. A., Duluth, Minn.
- FULLER, George W. (1910), Cons. Engr., 170 Broadway, New York, N. Y.
- FULLER, Henry J. (1913), V. P., Fairbanks-Morse & Co., Rm. 615, 30 Church St., New York, N. Y., Pres., Canadian Fairbanks-Morse Co., Ltd., 444 St. James St., Montreal, Que., Canada.
- FULLER, Col. James W., Jr. (1910), Pres., Lehigh Car, Wheel & Axle Wks., and *for mail*, cor. Bridge St. and Howertown Ave., Catasauqua, Pa.
- FULLER, Ray W. (Associate, 1909), E. E., 1530 Wyoming Ave., Scranton, Pa.
- FULLER, Walter D. (Associate, 1913), Mgr. Acctg. Dept., Curtis Publishing Co., Philadelphia, Pa., and Woodbury, N. J.
- FULLERTON, William J. (1914), Supt., Helderberg Cement Co., Howes Cave, N. Y.
- FULTON, Arthur O. (Junior, 1911), Mgr. Hy Ten Steel Dept., Wheelock Lovejoy & Co., 35 Oliver St., Boston, and *for mail*, 14 Oxford Rd., Newton Center, Mass.
- FULWEILER, John E. (1908; 1913), M. E., 4335 Chestnut St., Philadelphia, Pa.
- FUNK, Nelson E. (1909), 243 Washington St., Jersey City, and 31 Forest St., Montclair, N. J.
- FUNK, William F. (1892; 1905), Secy., La Crosse Boiler Co., Gould and Mill Sts., and 1407 Main St., La Crosse, Wis.
- FURMAN, Franklin De R. (1902), Prof. Mechanism and Mch. Design, Stevens Inst. of Tech., Hoboken, N. J., and 31 W. 11th St., New York, N. Y.
- FUSSELMAN, Paul A. (Junior, 1914), Genl. Shop Foreman, Kansas City Gas Co., 908-910 Grand Ave., Kansas City, Mo.
- GABRIEL, Charles R. (1901), Cons. and Designing Engr., E. W. Bliss Co., and *for mail*, 1810 Glenwood Rd., Ave. G, Brooklyn, N. Y.
- GABRIEL, Wm. A. (1891), Ch. Draftsman, Designer, Elgin Natl. Watch Co., and *for mail*, 570 Chicago St., Elgin, Ill.
- GAEBELEIN, Arno W. (Junior, 1913), Ch. Engr., Clarence N. Peacock & Co., 1790 Broadway, New York, and *for mail*, 228 N. Fulton Ave., Mt. Vernon, N. Y.
- GAEHR, David (1902; 1909), Designing and Contr. Engr., 950-952 Rockefeller Bldg., Cleveland, O.
- GAGER, Edwin B., Jr. (Junior, 1912), Scientific Management Engr., Farrel Fdy. & Mch. Co., Ansonia, and 49 Atwater Ave., Derby, Conn.
- GAINES, Frederic F. (1901), Supt. M. P., Central of Ga. R. R., and 203 W. 36th St., Savannah, Ga.
- GALBRAITH, Geo. W. (Associate, 1899), Sales Mgr., Internatl. Steam Pump Co., 1504 First Natl. Bank Bldg., and *for mail*, P. O. Box 639; also 453 Riddle Rd., Cincinnati, O.
- GALE, Horace B. (1886), Ch. Engr., Simplex Electric Heating Co., Cambridge, and *for mail*, Natick, Mass.
- GALE, Walter L. (1916), Engr., Tool Designer, Hopkins & Allen Arms Co., and *for mail*, 22 Lincoln Ave., Norwich, Conn.
- GALE**, Warren D. (Junior, 1914), Exper., Waterville, Que., Canada.
- GALLAGHER, Robert T. (1906), Ch. Draftsman Engrg. Dept., Am. Steel & Wire Co., and *for mail*, 12 Huntington Ave., Worcester, Mass.

- GALLAHER, Alvan H. (Junior, 1914), Asst. Engr., Barrett Mfg. Co., 17 Battery Pl., New York, N. Y., and *for mail*, 103 34th St., Woodcliff-on-Hudson, via West New York, N. J.
- GALLOUPE, Francis E. (1880), M. E., 335 Old South Bldg., Boston, and 69 Puritan Rd., Swampscott, Mass.
- GALLOWAY, Charles D. (1913), Asst. to Factory Engr., The Elec. Storage Battery Co., Philadelphia, and 37 W. Upsal St., Germantown, Philadelphia, Pa.
- GALLOWAY, Thomas (1912), M. E., 18 Wendell St., Battle Creek, Mich.
- GALLUP, David L. (1910), Cons. Auto. Engr., Prof. Gas Engrg., Worcester Poly. Inst., and 12 Shaffner St., Worcester, Mass.
- GAMBLE, William J., Jr. (Junior, 1911), M. E., Vulcan Steam Forging Co., 241-257 Rano St., and 295 Ontario St., Buffalo, N. Y.
- GAMMETER, Harry C. (1913), Mech. Expt., The Am. Multigraph Co., Cleveland, O.
- GAMON, Ernest E. (Junior, 1904), V. P., Genl. Mgr., Gamon Meter Co., 282 South St., and *for mail*, 100 Murray St., Newark, N. J.
- GANNON, Thomas J. (1913), Cons. Mech. and Hyd. Engr., 143 Liberty St., New York, and *for mail*, 69 Monroe St., Brooklyn, N. Y.
- GANSCHOW, Lloyd W. (Junior, 1915), Electrolysis Engr., Central Union Telephone Co., and *for mail*, 42 13th Ave., Columbus, O.
- GANSTER, Joseph A. (Associate-Member, 1914), Asst. Supt., Stand. Roller Bearing Co., 49th and Lancaster Ave., Philadelphia, Pa.
- GANTT, Henry L. (1888), Manager, 1908-1911; Vice-President, 1913-1915; Cons. Engr., 2915 Singer Bldg., New York, N. Y., res., 18 Hoburg Pl., Montclair, N. J.
- GANZ, Albert F. (1910), Prof. E. E., Stevens Inst. of Tech., Hoboken, N. J.
- GARBETT, Benjamin C. (1912), Secy., Twin City Mch. Co., and *for mail*, 416 Oak St., S. E., Minneapolis, Minn.
- GARDINER, Andrew J., Jr. (1906), M. E., 312 Central Ave., Fredonia, N. Y.
- GARDINER, Walter B. (1913), Production Engr., 418 W. 11th St., Erie, Pa.
- GARDNER, Archibald (1915), Asst to Pres., Ambursen Co., 61 Broadway, New York, N. Y.
- GARDNER, G. Clinton, Jr. (1903), Asst. Engr. M. P., Pa. R. R., 623 Brisbane Bldg., and 118 Hodge Ave., Buffalo, N. Y.
- GARDNER, Henry (1904; 1913), Supvr. Material Reclamation, B. & O. R. R. Co., B. & O. Bldg., Baltimore, and *for mail*, 405 Edgevale Rd., Roland Park, Md.
- GARDNER, Horace C. (1904), Mem. of Firm, Gardner & Lindberg, Marquette Bldg., and 4711 Greenwood Ave., Chicago, Ill.
- GARDNER, Kirtland C. (Associate, 1909), Sales Engr., United Engrg. & Fdy. Co., 2313 Farmers Bank Bldg., and 6727 Thomas Blvd., Pittsburgh, Pa.
- GARDNER, Thomas M. (1903), Cons. Engr., Anna, Ill.
- GARDNER, William M. (1914), Asst. Engr., U. S. Engr. Office, and *for mail*, P. O. Box 1027, Memphis, Tenn.
- GARFIELD, Alexander S. (1907), Ch. Engr., Cie. Francaise pour l'Exploitation des Procédés Thomson-Houston, and *for mail*, 67 Ave. de Malakoff, Paris, France.
- GARFIELD, Lyman M. (Associate, 1893), Supt., Miami Powder Co., and *for mail*, 428 N. Galloway St., Xenia, O.
- GARLAND, Claude M. (1906; 1912), M. E., Woodmansee & Davidson, 1018 First Natl. Bank Bldg., and *for mail*, 1049 Ardmore Ave., Chicago, Ill.
- GARRAHAN, F. B. (Junior, 1911), John Royle & Sons, Paterson, N. J., and 63 W. South St., Wilkes-Barre, Pa.

- GARRATT, Ernest A. (1907), Dir., Jacobs & Barringer, Ltd., 78 Gracechurch St., London, E. C., England.
- GARRED, Ulysses A. (1904; 1912), Nichols Copper Co., Laurel Hill, L. I., N. Y.
- GARRIGUES, Edmund (1900), Ch. Engr., The Russell & Co., and *for mail*, 223 S. Cedar St., Massillon, O.
- GARTLEY, Alonzo (1911), Cons. Engr., C. Brewer & Co., Ltd., Honolulu, Hawaii.
- GARVIN, George K. (1909), Pres., Garvin Mch. Co., Spring and Varick Sts., New York, N. Y.
- GAST, George F. (Junior, 1910), Res. Engr., Sayre Elec. Co., 232 Spring St., Sayre, Pa., and *for mail*, Jones Point, Rockland Co., N. Y.
- GASTON, Newton D. (1914), Efficiency Engr., Adams & Westlake Co., 319 W. Ontario St., Chicago, and *for mail*, 439 S. Madison Ave., La Grange, Ill.
- GATELY, Philip J. (Associate, 1904), Ch. Engr., R. Webber's Packing House & Cold Storage Plant, 2191 Third Ave., and *for mail*, 125 E. 54th St., New York, N. Y.
- GATELY, William A. (Junior, 1912), 125 E. 54th St., New York, N. Y.
- GATES, Grandon D. (Associate-Member, 1914), M. E., A. Y. McDonald Mfg. Co., Dubuque, Ia.
- GATES, Philetus W. (1902), Vice-President, 1906-1908; Pres., Hanna Engrg. Wks., 2059 Elston Ave., Chicago, Ill.
- GATES, Thayer P. (1906; 1913), Glenlyon Dye Wks., and *for mail*, Orchard Ave., Saylesville, R. I.
- GATH, Andrew L. (Associate, 1906), Pres., Treas., Gath Mch. Tool Co., 61 Terrace, and *for mail*, 30 Ardmore Pl., Buffalo, N. Y.
- GAUSE, Fred T. (1893), Lubricating Oil, Foreign Dept., Stand. Oil Co. of N. Y., 26 Broadway, New York, N. Y.
- GAUTHIER, George J. (1912), 1920 Aldrich Ave., S., Minneapolis, Minn.
- GAY, Frederick W. (1913), M. E., The J. G. White Engrg. Corp., and *for mail*, 310 Sansome St., San Francisco, Cal.
- GAY, Harry (1907; 1911), Equip. Engr., Stone & Webster Engrg. Corp., New Technology Bldgs., Charles River Rd., Cambridge, and 249 Crafts St., Newtonville, Mass.
- GAYLORD, William W. (Junior, 1914), Ch. Draftsman Coe Brass Branch, Am. Brass Co., and *for mail*, 169 Albert St., Torrington, Conn.
- GAYMAN, Bert A. (1914), Ch. Engr., Link-Belt Co., 39th St. and Stewart Ave., and 6232 Woodlawn Ave., Chicago, Ill.
- GAZZAM, Joseph P. (1902), Life Member; 5027 Westminster Pl., St. Louis, Mo.
- GEBHARDT, George F. (1904), Prof. M. E., Armour Inst. of Tech., and 5302 Blackstone Ave., Chicago, Ill.
- GEER, James H. (1884), Engr. of Constr., Cambria Steel Co., and *for mail*, 431 Somerset St., Johnstown, Pa.
- GEERLINGS, Henry J. (1913), Asst. to M. E., Pfister & Vogel Leather Co., Milwaukee, and *for mail*, R. F. D. 13, Box 32, Wauwatosa, Wis.
- GEIER, Frederick A. (Associate, 1900), Pres., The Cincinnati Milling Mch. Co., Oakley, and 2301 Grandview, Cincinnati, O.
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- GENTZEL, Perry H. (Associate-Member, 1914), V. P., Genl. Mgr., Unit Ry. Car Co., Hunt St., Newton, Mass.
- GENUNG, Nelson H. (1912), V. P., N. Y. Mgr., Coatesville Boiler Wks., 30 Church St., New York, N. Y.

- GEORG, Theo. (1915), Ch. Draftsman, Alberger Pump & Cond. Co., Newburgh, N. Y.
- GEORGE, Jerome R. (1899), Ch. Engr., Morgan Constr. Co., 21 Lincoln St., and *for mail*, 6 Bowdoin St., Worcester, Mass.
- GERBER, Samuel R. (Junior, 1913), Industrial Engr., De Laval Separator Co., and 14 Gray St., Poughkeepsie, N. Y.
- GERDAU, Barthold (1911), Ch. Engr., Managing Dir., Haniel & Lueg, and *for mail*, Neanderstr. 13, Düsseldorf, Germany.
- GERHARD, Dr. William P. (1904), Cons. Sanitary Expt., Hyd. Engr., Rm. 1213, 42d St. Bldg., New York, and Scarsdale, N. Y.
- GERMAIN, Joseph N. (1911), Asst. Overseer of Production Drafting Dept., Winchester Repeating Arms Co., and *for mail*, 7 Trumbull St., New Haven, Conn.
- GERNER, George C. (Junior, 1913), Instr. Testing Materials, S. S. S., Yale Univ., 260 Mason Lab., and *for mail*, 20 Compton St., New Haven, Conn.
- GERRY, Edward M. (1912), Commer. E. E., Allis-Chalmers Mfg. Co., and 2018 Grand Ave., Milwaukee, Wis.
- GERSONI, Louis J. (Associate-Member, 1913), M. E., Bureau of Sewers, 215 Montague St., and *for mail*, 711 Sterling Pl., Brooklyn, N. Y.
- GETTS, Frank E. (1913), Genl. Mgr., Elec. Engrs. Equip. Co., 711 Meridian St., Res., 4849 Vincennes Ave., Chicago, Ill.
- GFRÖRER, Albert H. (Junior, 1913), M. E., West New Brighton, and 20 Albion Pl., Port Richmond, S. I., N. Y.
- GERARDI, Bancroft (1915), Engr. of Plant, Am. Tel. & Tel. Co., 15 Dey St., New York, N. Y.
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- GIBBS, George (1890), Cons. Engr., Gibbs & Hill, Pa. Sta., New York, N. Y.
- GIBBS, George W., Jr. (Associate-Member, 1915), Mfr., Gibbs Gas Eng. Co. of Fla., Jacksonville, Fla.
- GIBBS, Harold E. (1914), Testing Engr., Snow Steam Pump Wks., Buffalo, N. Y.
- GIBBS, Paul H. (Junior, 1915), Asst. Supt., The Bridgeport Chain Co., 964 Crescent Ave., and *for mail*, 348 Park Ave., Bridgeport, Conn.
- GIBERT, Ralph W. (Associate-Member, 1914), Efficiency Engr., Buick Motor Co., 938½ Detroit St., Flint, Mich.
- GIBNEY, James W. (1909), Mgr., Taylor Iron Wks., 575 Howard St., and *for mail*, 416 Woodward Ave., Buffalo, N. Y.
- GIBSON, Arthur (1892), Cons. Engr., 1022 Haight St., San Francisco, Cal.
- GIBSON, Charles D. (1913), The Cleveland Mch. & Supply Co., Cleveland, O.
- GIBSON, Elmer E. (Associate-Member, 1915), Asst. Supt., The Jones Speedometer, and *for mail*, 194 Main St., New Rochelle, N. Y.
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- GIBSON, George H. (1900; 1907; 1914), Cons. Engr., Tribune Bldg., New York, N. Y., and 70 Oakwood Ave., Upper Montclair, N. J.
- GIBSON, James E. (1896; 1901; 1910), Prin. Asst. Engr., Am. Pipe & Constr. Co., 112 N. Broad St., Philadelphia, and 419 Yale Ave., Swarthmore, Del. Co., Pa.
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- GIFFORD, George N. (Junior, 1913), Asst. M. E., Am. Ptg. Co., and 1160 Robeson St., Fall River, Mass.
- GIFFORD, Robt. L. (1902), Pres., Illinois Engrg. Co., 540 W. Harrison St., Chicago, Ill., and Oak Knoll, Pasadena, Cal.
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- GILBERT, E. E. (1911), Sales Mgr. Turbine Dept., Genl. Elec. Co., and 223 Union St., Schenectady, N. Y.
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- GILBERT, Huntly H. (Associate-Member, 1914), Sales Agt., Pressed Steel Car Co., West. Steel Car & Fdy. Co., 1470 Old Colony Bldg., Chicago, Ill.
- GILBERT, Lloyd D. (1912), M. E., 704-705 I. W. Hellman Bldg., and 2261 W. 29th Pl., Los Angeles, Cal.
- GILBRETH, Frank B. (1903), Pres., Frank B. Gilbreth, Inc., 30 Church St., New York, N. Y., and *for mail*, 77 Brown St., Providence, R. I.
- GILDEHAUS, Richard F., Jr. (Junior, 1909), Supvg. Engr., Busch Interests in Tex., 922 Busch Bldg., Dallas, Tex.
- GILES, C. E. (1891), Agt., Am. & British Mfg. Co., and *for mail*, 44 Halsey St., Providence, R. I.
- GILL, Author H. (1913), Supt. Perth Amboy Plant, Am. Smelting & Refining Co., Maurer, and *for mail*, 228 High St., Perth Amboy, N. J.
- GILL, Lester W. (1908), Prof. E. E., Queen's Univ., Kingston, Ont., Canada.
- GILLAM, William H., Jr. (Junior, 1914), Supt. Jas. Boyd & Bros., Inc., 25th and Wharton St., Philadelphia, and Langhorne, and *for mail*, 2004 Mt. Vernon St., Philadelphia, Pa.
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- GILLIES, Wm. F. (1905; 1913), Mgr., Ingersoll-Rand Co., Farmers Bank Bldg., Pittsburgh, Pa.
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- GILMORE, John W. (1914), V. P., Factory Mgr., Crouch & Fitzgerald Co., 352 W. 41st St., and 118 W. 91st St., New York, N. Y.
- GILMORE, Thomas N. (1915), Ch. Engr., Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y.

- GILMOUR, George (1909), Ch. Engr., Travelers Ins. Co., Hartford, Conn., and 170 Stratford Rd., Flatbush, Brooklyn, N. Y.
- GILSON, Harry W. (Junior, 1909), Engrg. Mgr., Blaisdell Canady Co., 90 West St., New York, N. Y., and *for mail*, 21 Park St., Jersey City, N. J.*
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- GLADDEN, Charles S. (Junior, 1901), Asst. Engr., E. I. du Pont de Nemours & Co., Penns Grove, N. J., and Chestnut and Rodney Sts., Wilmington, Del.
- GLADDING, Wanton M. (1907), Mech. Supt., Morse Twist Drill & Mch. Co., 170 Pleasant St., and 338 Pleasant St., New Bedford, Mass.
- GLADECK, Frederick C. (Associate-Member, 1916), Ballistic Engr., Am. Ammunition Co., Inc., 25 Broad St., New York, N. Y., and *for mail*, 4431 Richmond St., Philadelphia, Pa.
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- GLEASON, Gilbert H. (1906; 1912), Dodge Mfg. Co., 137 Purchase St., Boston, and *for mail*, 9 Central Ave., Newtonville, Mass.
- GLEASON, Kate (1914), Secy., Gleason Wks., Rochester, and *for mail*, Clonos, East Ave., Pittsford, Rochester, N. Y.
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- GODFREY, Eli S. (1891), Tannersville, N. Y.

- GODFREY, Dr. Hollis (1912), Pres., Drexel Inst., Cons. Engr., 32d and Chestnut Sts., Philadelphia, and Cynwyd, Pa.
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- GOETZ, Fred W. (Associate, 1909), V. P., Goetz Co., Clybourn Ave. and Willow St., and for mail, 5960 Kenmore Ave., Chicago, Ill.
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- GOETZE, Frederick A. (1895; 1900), Dean Sch. of Mines, Engrg. and Chemistry, Columbia Univ., and 601 W. 110th St., New York, N. Y.
- GOING, Charles B. (1911), Editor Wks. Management Library, V. P., The Engrg. Magazine Co., 140 Nassau St., New York, N. Y.
- GOLDBERG, Monroe S. (Junior, 1913), Pres., No. Waterproofing Co., 195 Lexington Ave., New York, and 585 E. 22d St., Flatbush, Brooklyn, N. Y.
- GOLDEN, M. J. (1892), Prof. Practical Mech., Purdue Univ., Lafayette, Ind.
- GOLDIE, Alexander R. (Junior, 1902), Mgr., Goldie & McCulloch Co., Ltd., Galt, Ont., Canada.
- GOLDINGHAM, Arthur H. (1907), De La Vergne Mch. Co., foot of E. 138th St., and for mail, 552 Riverside Drive, New York, N. Y.
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- GOLDSCHMIDT, Otto E. (1912), Cons. Engr., 105 W. 40th St., New York, N. Y.
- GOLDSMITH, Clarence (1911), Hyd. Engr., Natl. Bd. of Fire Underwriters, 76 William St., New York, N. Y., and 60 Elm St., Andover, Mass.
- GOLDSMITH, Nathaniel O. (1900), Genl. Mgr., Weir Frog Co., East Norwood, Cincinnati, and for mail, 2319 Monroe Ave., Norwood, O.
- GOLDTHWAITE, Harry W. (1913), Ch. Draftsman, Edison Portland Cement Co., Stewartsville, N. J., and for mail, 705 Ferry St., Easton, Pa.
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- GOODENOUGH, Walter (1912), Mgr. Keokuk Div., Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass.
- GOODING, Chas. S. (1904), M. E., Solicitor of Patents, 27 School St., Boston, and for mail, 116 Marion St., Brookline, Mass.
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- GOODRICH, E. Raymond (Junior, 1914), Asst. Engr., Wheeler Condenser & Engrg. Co., Carteret, N. J.
- GOODRICH, Robert R. (1903), Univ. of Idaho, Moscow, Idaho.
- GOODSPEED, Charles B. (Associate-Member, 1916), V. P., The Buckeye Steel Castings Co., 619 Ry. Exch., Chicago, Ill.
- GOODWIN, E. Clayton (1915), Supt., Hart & Cooley Co., and for mail, 4 Forest St., New Britain, Conn.
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- GORDON, William J. (1914), Mech. Supt., Internatl. Milling Co., New Prague, Minn.
- GORE, Warren W. (1908), Ch. Engr., Fuller & Johnson Mfg. Co., and *for mail*, 436 Marston Ave., Madison, Wis.
- GORHAM, William R. (Junior, 1912), Supt., Gorham Engrg. Co., Oakland, Cal.
- GORTON, J. C. (1897; 1899), Cons. Engr., 210 Olive St., Warren, O.
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- GOSS, Harry T. (1907), Cons. M. E., Goss & Bryce, 76 William St., New York, N. Y., and 78 Chestnut St., Rutherford, N. J.
- GOSS, Stanley T. (1914), Mch. and Automatic Dept., New Britain Mch. Co., New Britain, Conn.
- GOSS, W. F. M. (1886), Manager, 1900-1903; Vice-President, 1909-1911; President, 1913; Life Member; Dean College of Engrg., Dir. Engrg. Exper. Sta., Univ. of Ill., and 1103 W. Nevada St., Urbana, Ill.
- GOTTFRIED, Carl M. (Associate, 1913), Genl. Mgr., Secy., Gottfried Brewing Co., 337 Alexander St., and 40 Cedar St., Chicago, Ill.
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- GOULD, Norman J. (1900; 1908), Pres., Goulds Mfg. Co., and 28 Cayuga St., Seneca Falls, N. Y.
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- GOWIE, William (1905), 157 Warren Ave., Youngstown, O.
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- GRAFF, Charles E. (1914), Mgr. Eagle Wks., Stand. Oil Co., Inc. of N. J., Rm. 707, 26 Broadway, New York, N. Y.
- GRAFFAM, Walter S. (1914), Mfr., W. S. Graffam & Co., and *for mail*, 85 Locust St., Northampton, Mass.

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- GRANTIER, Leslie V. (1915), Dist. M. P. Inspr., B. & O. R. R., Pittsburgh, Pa.
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- GRAY, John Lathrop (1901; 1905), Mgr. Mfg. and Producing Depts., Pieree Oil Corp., 420 Olive St., St. Louis, and Jackson and Berry Rds., Webster Groves, Mo.
- GRAY, John R. (Associate-Member, 1915), Genl. Supt., La. State Rice Milling Co., New Orleans, La.
- GRAY, John W. (Junior, 1895), Asst. to Genl. Mgr., Newport News Shipbuilding & Dry Dock Co., 410 Harrison Bldg., and 430 S. 45th St., Philadelphia, Pa.
- GRAY, Niel, Jr. (1903), Prop., Oswego Mch. Wks., and 132 W. 5th St., Oswego, N. Y.
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- GREEN, Frederick W. (1913), Genl. Mgr., La. & Ark. Ry. Co., P. O. Box 345, Stamps, Ark.
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- GREEN, Walter H. (1916), Ch. Engr., Internatl. Filter Co., 38 S. Dearborn St., and *for mail*, 1727 W. 101st St., Chicago, Ill.
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- HIBBARD, Leonard J. (Associate, 1913), Genl. Mgr., L. J. Hibbard Co., World Bldg., New York, N. Y.
- HIBBARD, Robert L. (1913), Wks. Mgr., Riter-Conley Mfg. Co., Pittsburgh, and *for mail*, Leetsdale, Pa.
- HIBBARD, Thomas (1889), Treas., M. E., Geo. Lawley & Sons Corp., Neponset, and *for mail*, 17 Nottingham St., Dorchester, Mass.
- HICKMAN, Charles D. (1914), Cons. Engr., 1414 South Penn Sq., Philadelphia, Pa.
- HICKS, George C., Jr. (1915), V. P., Ch. Engr., P. H. & F. M. Roots Co., Connorsville, Ind.
- HICKS, Rufus W., Jr. (Junior, 1915), M. E., Workmen's Compensation Serv. Bureau, 18 E. 41st St., New York, N. Y.
- HICKS, William A. B. (1915), Ch. Draftsman, I. P. Morris Co., Beach and Ball Sts., Philadelphia, Pa.
- HICKSTEIN, Ernest O. (Junior, 1915), M. E., Wichita Natural Gas Co., and 418 Chickasaw St., Bartlesville, Okla.
- HIDER, George T. (Junior, 1911), Lake Providence, La.
- HIGGINS, Campbell P. (1893), 127 E. 5th Ave., Roselle, N. J.
- HIGGINS, George F. (1886; 1906), Treas., Gem Stamped Steel Co., Chelsea Sta., Boston, and *for mail*, 41 Mt. Vernon St., Melrose, Mass.
- HIGGINS, John W. (1902; 1913), Pres., Treas., Worcester Pressed Steel Co., Randolph Rd. and Barber Ave., and *for mail*, 80 William St., Worcester, Mass.
- HILDENBRAND, Harry (Junior, 1909), Genl. Supt., The L. C. Elde Oil Mills, P. O. Box 278, and 1315 Hadley St., Houston, Tex.
- HILDRETH, W. A. (1902), Dir., Alfred Herbert, G. m. b. H., Potsdamer tr. 6 Berlin W. 57, Germany.
- HILDRETH, William O. (Junior, 1888), Engr., The Lamson Co., 100 Boylston St., Boston, and *for mail*, 58 Taylor St., Wollaston, Mass.
- HILES, A. Lionel (1912), Ch. Engr. Hoisting and Min. Eng. Dept., Wash. Iron Wks., and *for mail*, 2101 31st Ave., S., Seattle, Wash.
- HILES, Elmer K. (1900; 1906), M. E., 2511 Oliver Bldg., and *for mail*, 5537 Hampton St., Pittsburgh, Pa.
- HILGARTNER, George H. (1913), Cons. Engr., Export Leaf Tobacco Co., British Am. Tobacco Co., and 3219 Grove Ave., Richmond, Va.
- HILL, Benjamin W. (Junior, 1912), Hill Military Acad., Portland, Ore.

- HILL, Charles H. (Associate, 1907), Designing Engr., Genl. Elec. Co., and *for mail*, 305 Lenox Rd., Schenectady, N. Y.
- HILL, Dudley M. (Junior, 1915), Engr., Brooklyn Union Gas Co., ft. of N. 12th St., and *for mail*, 736 Argyle Rd., Brooklyn, N. Y.
- HILL, Ebenezer, Jr. (1900; 1907), Secy., Supt., Norwalk Iron Wks. Co., South Norwalk, and *for mail*, 11 Elm St., Norwalk, Conn.
- HILL, Edgar L. (Junior, 1908), P. O. Box 105, Douglaston, L. I., N. Y.
- HILL, E. Rowland (1907), Cons. Engr., Gibbs & Hill, Pa. St., New York, N. Y., and 111 S. Munn Ave., East Orange, N. J.
- HILL, Francis L. (Junior, 1916), Draftsman, Covington Mch. Co., Covington, Va.
- HILL, George F. (1914), Engr., Contr., 15-17 E. 40th St., and 458 W. 152d St., New York, N. Y.
- HILL, Harold H. (1904; 1915), M. E., Dist. Mgr., Erie City Iron Wks., Citizens Bldg., and 11036 Belleflower Rd., N.E., Cleveland; also Hilltop Farm, Wickliffe, Lake Co., O.
- HILL, John A. (1913), Publisher, 10th Ave. and 36th St., New York, N. Y.
- HILL, John W. (1899), West. Sales Engr., The Bantam Anti-Friction Co., 956 Trumbull Ave., Detroit, Mich.
- HILL, Nicholas S., Jr. (1912), Mem. of Firm, Nicholas S. Hill, Jr. & S. F. Ferguson, 100 William St., New York, N. Y., and 50 Glenwood Ave., East Orange, N. J.
- HILL, Reuben (1908), Factory Mgr., Detroit Lubricator Co., and Addison Apts., Detroit, Mich.
- HILL, Robert J. (Associate, 1904), Traveling Engr., Quaker Oats Co., Ry. Exch. Bldg., and *for mail*, 5027 Dorchester Ave., Chicago, Ill.
- HILL, Rowland F. (Junior, 1915), Ch. Draftsman, The Natl. Supply Co., and *for mail*, 3269 Monroe St., Toledo, O.
- HILL, William (1883; 1889), Pres., The Collins Co., Collinsville, Conn.
- HILLER, Joseph L. (Associate, 1907), Ch. Engr., Pa. Crusher Co., Stephen Girard Bldg., Philadelphia, Pa.
- HILLER, N. H. (1902), Pres., Carbondale Mch. Co., and 68 Laurel St., Carbondale, Pa.
- HILLMAN, Cecil R. (1899), Loco. Supt., Sao Paulo Ry. Co., and *for mail*, Largo dos Guayanazes, No. 4, Sao Paulo, Brazil, S. A.
- HILLMANN, Gustav (1883), Life Member; Naval Arch., 470 Greene Ave., Brooklyn, N. Y.
- HILLYER, Frank H. (1913), Head Dept. of Forge and Fdy., Pratt Inst., Brooklyn, N. Y.
- HILLYER, George, Jr. (1898; Associate, 1904), M. E., Valuation Dept., So. Ry. Co., 1300 Penna Ave., Washington, D. C., and *for mail*, 568 W. Peachtree St., Atlanta, Ga.
- HILYARD, Le Roy (Junior, 1914), Student Salesman, Internatl. Steam Pump Co., Philadelphia, and *for mail*, Bryn Mawr, Pa.
- HINCHMAN, C. R. (1893), Engr., Am. Steel & Wire Co., Cleveland, and Bedford, O.
- HINCHMAN, Theodore H. (1895; 1905), Cons. Engr., Smith, Hinchman & Grylls, 710 Washington Arcade, and 223 Seminole Ave., Detroit, Mich.
- HINCKLEY, Charles W. (Associate, 1912), Otis Elev. Co., 11th Ave. and 26th St., and 1330 St. Nicholas Ave., New York, N. Y.
- HIND, R. Renton (1912), Associate-Member, 1914), Cons. Sugar House Engr., Honolulu Iron Wks. Co., and *for mail*, P. O. Box 597, Honolulu, Hawaii.
- HINDMAN, Wilbert L. (Associate-Member, 1914), Supt., The Duff Mfg. Co., and *for mail*, 3340 Perrysville Ave., Pittsburgh, Pa.

- HINRICHS, Frederic W., Jr. (1911), Prof. Applied Mech., Univ. of Rochester, and 248 Oxford St., Rochester, N. Y.
- HINTZE, Thomas F. (Junior, 1912), Fuel Oil Engr., The Tex. Co., and *for mail*, Crown Hotel, Providence, R. I.
- HIRSCH, Gustav (1913), Cons. Engr., 956 Jaeger St., Columbus, O.
- HIRSCHLAND, Dr. F. H. (1906; 1916), V. P., Goldschmidt Detinning Co., 60 Wall St., and 155 Riverside Drive, New York, N. Y.
- HIRSHFELD, Clarence F. (Junior, 1905), Ch. of Research Dept., The Edison Ill. Co. of Detroit, 73½ Broadway, and *for mail*, 90 Connecticut Ave., Detroit, Mich.
- HIRSHHEIMER, Harry J. (1892; Associate, 1904), V. P., La Crosse Plow Co., and *for mail*, 131 S. 15th St., La Crosse, Wis.
- HIRT, Louis J. (1894), V. P., Pearson Engrg. Corp., 115 Broadway, New York, and *for mail*, Van Cortland Terrace, Yonkers, N. Y.
- HITCHCOCK, Embury A. (1898), Power Sales Engr., E. W. Clark & Co. Management Corp., 910 Wyandotte Bldg., and *for mail*, 380 W. 8th Ave., Columbus, O.
- HITCHCOCK, Frederick M. (1899; 1907), Mgr., Dexter Folder Co., Pearl River, N. Y.
- HITCHCOCK, Harry S. (1916), Treas., Baker Iron Wks., 950 N. Broadway, and 829 Kensington Rd., Los Angeles, Cal.
- HITZE, Edward C. (Associate-Member, 1915), Genl. Supt., Edward Valve & Mfg. Co., 348 S. Dearborn St., Chicago, Ill.
- HOAGLAND, Frank O. (1912), Asst. Wks. Mgr., Pratt & Whitney Co., and *for mail*, 290 Collins St., Hartford, Conn.
- HOAGLAND, Ira G. (Associate, 1914), Secy., Natl. Automatic Sprinkler Asso., 80 Maiden Lane, New York, N. Y.
- HOAR, John C. (Junior, 1915), M. M., Chateaugay Ore & Iron Co., and *for mail*, Hotel Chateaugay, Lyon Mountain, also, 21 St. Mary's Ave., Troy, N. Y.
- HOBART, Frank G. (1890), Ch. Engr., Fairbanks-Morse Mfg. Co., and *for mail*, 1259 Chapin St., Beloit, Wis.
- HOBART, Henry M. (1915), Cons. Engr., Genl. Elec. Co., Schenectady, N. Y.
- HOBART, James C. (1888; 1893), Pres., Mgr., Triumph Elec. & Ice Mch. Cos., and 2820 Winslow Ave., Cincinnati, O.
- HOBBLE, Arthur C. (1914), Ch. E. E., Mex. No. Power Co., Ltd., Santa Rosalia, Camargo, Chihuahua, Mex., and Rushville, Ill.
- HOBBS, Franklin W. (1911), Pres., Exec. Officer, Arlington Mills, 78 Chauncy St., Boston, and 78 Upland Rd., Brookline, Mass.
- HOBBS, George W. (Junior, 1915), Instr. Engrg., Extension Div., Univ. of Wis., Eau Claire, Wis.
- HOBBS, J. Clarence (1912; Associate-Member, 1916), Asst. to Supt. of Power Stas., Duquesne Light Co., Rm. 914, 435 Sixth Ave., and *for mail*, 5137 Woodlawn Ave., Pittsburgh, Pa.
- HOBSON, Russell B. (1916), 455 Kissel Ave., New Brighton, N. Y.
- HOCHSTRASSER, Arnold (1913), Supt. of Wks., The Whitehall Cement Mfg. Co., Cementon, Pa.
- HODGE, Harry S. (1891), Univ. of Va., Charlottesville, Va.
- HODGE, William W. (Junior, 1909), 140 June St., Worcester, Mass.
- HODGES, Chas. B. (Junior, 1897), H. K. Porter & Co.'s Shop, Pittsburgh, Pa.
- HODGINS, George S. (1908), Managing Editor, Ry. Periodicals Co., Inc., 52 Vanderbilt Ave., and 390 Wadsworth Ave., New York, N. Y.
- HODGKINSON, Francis (1902), M. E., Westinghouse Mch. Co., East Pittsburgh, and *for mail*, 127 Linden St., Edgewood Park, Pa.

- HODGSON, Alec W. (1910), M. M., Astoria Light Heat & Power Co., Astoria, L. I., and *for mail*, 123 Parkside Ave., Flatbush, Brooklyn, N. Y.
- HOE, Robert (1913), Pres., Duplex Ptg. Press Co., Battle Creek, Mich., and 146 E. 49th St., New York, N. Y.
- HOEFER, E. G. (Associate, 1909), Prof. M. and E. E., Univ. of Wyo., and *for mail*, 415 11th St., Laramie, Wyo.
- HOERR, Alexander L. (1907), Steam and Hyd. Engr., Natl. Tube Co., and *for mail*, 1011 McCleary St., McKeesport, Pa.
- HOEXTER, Samuel J. (Associate-Member, 1914), Instr. M. E., Univ. of Mich., and 943 Greenwood Ave., Ann Arbor, Mich.
- HOFFMAN, James D. (1894; 1903), Prof. M. E. and Practical Mech., Univ. of Neb., Sta. A, and 43d and Dudley Sts., Lincoln, Neb.
- HOFFMAN, Roscoe C. (Junior, 1915), M. E., Sun Motor Car Co., Elkhart, and *for mail*, Argos, Ind.
- HOFFMAN, William A. (1914), Inspr. of Boilers, Elev. and Smoke Abatement, City of St. Louis, and *for mail*, 4011 Greer Ave., St. Louis, Mo.
- HOFFMANN, John E. (Junior, 1916), M. E. Testing Dept., Am. Bridge Co., Pencoyd Iron Wks., Pencoyd, and *for mail*, Am. Bridge Club, Wissahickon, Philadelphia, Pa.
- HOFFMANN, Simon (1911), First V. P., Loco. Superheater Co., 30 Church St., New York, N. Y., and *for mail*, Steinhofstr. 4, Cassel-Wilhelmshöhe, Germany.
- HOFMEYER, Geo. A. (Associate, 1905), Inventor, Mfr., Ridgewood, and *for mail*, Hohokus, N. J.
- HOGAN, Patrick H. (1904; 1914), N. E. Mgr., Dearborn Chem. Co., John Hancock Bldg., and Roslindale, Boston, Mass.
- HOGG, James (1913), Cons. Engr., Wcol Expt., Stephen Sanford & Sons, Inc., and *for mail*, 7 Academy St., Amsterdam, N. Y.
- HOGUE, Oliver D. (1909), 550 Tremont Bldg., Boston, Mass.
- HOKE, Charles C. (1912), Oaktown, Ind.
- HOLBROOK, Dio L. (1899), Engr., Otis Elev. Co., 11th Ave. and 26th St., and *for mail*, 46 E. 21st St., New York, N. Y.
- HOLBROOK, Percy (1900), V. P., Rail Joint Co., 185 Madison Ave., New York, N. Y.
- HOLDSWORTH, Fred D. (1904), M. E., Sullivan Mchy. Co., Claremont, N. H.
- HOLLAND, Ray K. (1914), Prin. Asst. Engr. to Gardner S. Williams, Cons. Civ. and Hyd. Engr., Cornwell Bldg., and *for mail*, 217 N. Ingalls St., Ann Arbor, Mich.
- HOLLANDER, Emanuel (1901; 1906), Ch. Estimating Engr., Otis Elev. Co., 11th Ave. and 26th St., and 143 W. 111th St., New York, N. Y.
- HOLLENBERGER, Theodore J. (Junior, 1912), 4433 N. Paulina St., Chicago, Ill.
- HOLLERITH, Herman (1880; 1883), 1054 31st St., Washington, D. C.
- HOLLINGSWORTH, Samuel (1899; 1907), M. E., 171 E. Front St., Plainfield, and Stout Ave., Scotch Plains, N. J.
- HOLLIS, Ira N. (1884), Vice-President, 1911-1913; Pres., Worcester Poly. Inst., and 11 Boynton St., Worcester, Mass.
- HOLLMANN, Frederick W. (1907; 1914), M. M., Md. Steel Co., and 811 C St., Sparrows Point, Md.
- HOLLOWAY, H. F. (1891), 165 Broadway, New York, N. Y., and *for mail*, 223 Upper Mountain Ave., Montclair, N. J.
- HOLLOWAY, T. W. (1906; 1912), Asst. Mgr. Tech. Dept., Cadillac Motor Car Co., and *for mail*, 191 Delaware Ave., Detroit, Mich.
- HOLMAN, M. L. (1890), Vice-President, 1891-1896, 1903-1905; President, 1908; Cons. Engr., Holman & Laird, 1309 Chemical Bldg., and 6103 Waterman Ave., St. Louis, Mo.

- HOLMAN, R. Claude (1907), Designing Engr. Turbine Dept., Genl. Elec. Co., and *for mail*, P. O. Box 385, Lynn, Mass.
- HOLMES, Frederick S. (1913), Bank Vault Engr., 2 Rector St., New York, N. Y.
- HOLMES, Harold W. (Junior, 1912), Genl. Mgr., The Puritan Brick Co., V. P., Detroit Tool Co., 710 Farwell Bldg., and 251 Putnam Ave., Detroit, Mich.
- HOLMES, Urban T. (1910), Commander, U. S. N., Bureau of Steam Engrg., Navy Dept., Washington, D. C., and *for mail*, U. S. S. Vestal, care of Postmaster, New York, N. Y.
- HOLMES, Walter G. (1897; 1907), M. E., Wilmot Castle Co., and *for mail*, 106 Northview Terrace, Rochester, N. Y.
- HOLMES, Winfield E. (1914), M. E., Samuel M. Green Co., 293 Bridge St., Springfield, Mass.
- HOLT, C. Parker (Associate, 1906), Treas., The Holt Mfg. Co., Stockton, Cal.
- HOLT, Frank E. (1900), The Singer Mfg. Co., Elizabeth, N. J.
- HOLT, Pliny E. (1915), V. P., Genl. Mgr., The Holt Mfg. Co., Stockton, Cal.
- HONISS, William H. (1899), M. E., Solicitor of Patents, 60 Prospect St., and 102 Huntington St., Hartford, Conn.
- HONSBURG, August A. (1901), M. E., Ret., 7202 Broadway, Cleveland, O.
- HONYWILL, Albert W., Jr. (Junior, 1911), 50 Farmington Ave., Hartford, Conn.
- HOOD, Ozni P. (1904), Ch. M. E., U. S. Bureau of Mines, 40th and Butler Sts., and *for mail*, Old Heidelberg Cottage No. 4, Braddock Ave. and Waverly St., Pittsburgh, Pa.
- HOOD, Warren B. (Junior, 1910), Shop Engr., Canadian Pac. Ry. Co., and *for mail*, 317 St. Joseph Blvd., W., Montreal, Que., Canada.
- HOOK, James W. (1912; Associate-Member, 1914), Sales Mgr., C. A. Dunham Co., and *for mail*, 502 N. 5th St., Marshalltown, Ia.
- HOOPER, Charles S. (1912), Secy., Union Iron Wks., and *for mail*, 1057 W. 10th St., Erie, Pa.
- HOOPES, Clement R. (1913), Pres., Hoopes & Townsend Co., 1330 Buttonwood St., Philadelphia, and Elkins Park, Pa.
- HOOPES, Maurice (1901), Pres., Finch, Pruyn & Co., Glens Falls, N. Y.
- HOPE, Walter R. (Associate-Member, 1915), Ch. Draftsman, E. I. du Pont de Nemours & Co., 830 du Pont Bldg., Wilmington, Del.
- HOPKINS, Arthur T. (1912), Asst. Genl. Mgr., Mech. Rubber Co., Cleveland, O.
- HOPKINS, George F. (1912), Frost Gear & Mch. Co., and *for mail*, 1608 First St., Jackson, Mich.
- HOPKINS, Lloyd C. (1915), Ch. Engr., The Smith Gas Power Co., Lexington, O.
- HOPKINS, Michael S. (1913), V. P., E. W. Clark & Co. Management Corp., 1001 Wyandotte Bldg., and 72 Miami Ave., Columbus, O.
- HOPKINS, Nevil M. (1913), E. and M. E., Consultant in Pat. Cases, 2128 Bancroft Pl., Washington, D. C.
- HOPKINSON, Allen H. (1911), Gov. Dir. Britannia Wks., J. Hopkinson & Co., Ltd., Huddersfield, and "Fixby," West Overcliffe Drive, Bournemouth, England.
- HOPKINSON, Joseph (1913), Supt., The Computing Scale Co., and *for mail*, 719 Oakwood Ave., Dayton, O.
- HOPPE, John J. (1890), Pres., Hoppes Mfg. Co., Trump Mfg. Co., and *for mail*, 1330 E. High St., Springfield, O.
- HOPPS, John H. (1905), Cons. Engr., 503 Market St., San Francisco, and Ross, Marin Co., Cal.
- HOPTON, W. F. (1891; 1896), Pur. Dept., Solvay Process Co., and *for mail*, 311 Summit Ave., Syracuse, N. Y.

- HORNE, George A. (1912), Supt. Plant, N. E. Westinghouse Co., and *for mail*, 45 Kensington Ave., Meriden, Conn.
- HORNE, Joseph A. (1913), Genl. Supt., Yale & Towne Mfg. Co., Stamford; Conn.
- HORNING, Harry L. (1913), Secy., Genl. Mgr., Waukesha Motor Co., and 634 Wisconsin Ave., Waukesha, Wis.
- HORNUNG, Geo. (1886), Cons. Engr., Woolsack Bldg., Newport, and 512 Fairfield Ave., Bellevue, Ky.
- HORST, Anton E. (Associate-Member, 1914), Secy., Treas., Henry W. Horst Co., Horst Bldg., Rock Island, and *for mail*, 3925 Fifth Ave., Moline, Ill.
- HORSTMANN, Henry J. (1894), Mgr., The F. W. Horstmann Co., 196-210 Coit St., Irvington, and 240 Ridge St., Newark, N. J.
- HORTON, Charles M. (Junior, 1909), Averill Park, N. Y.
- HORTON, Elias Q. (Junior, 1912), Mgr., Otis Elev. Co., Metropolitan Bank Bldg., Washington, D. C.
- HORTON, John T. (1895), Spec. in Hoisting Equip., 90 West St., New York, and 276 Rugby Rd., Brooklyn, N. Y.
- HORTON, S. Ellsworth (1905), Pres., Genl. Mgr., E. Horton & Son Co., Windsor Locks, Conn.
- HORTON, Theodore A. (Associate-Member, 1914), Shop Supt., John T. Horton Co., 90 West St., New York, and *for mail*, 276 Rugby Rd., Brooklyn, N. Y.
- HORTON, William M., Jr. (Junior, 1911), Asst. Supt., The Kirk Latty Mfg. Co., Madison Ave. and W. 85th St., and *for mail*, 11003 Clifton Blvd., Cleveland, O.
- HOSFORD, William F. (1915), Engr. of Methods, West. Elec. Co., Hawthorne Sta., Chicago, Ill.
- HOSMER, Amos G. (1902), Mech. Supt., Merrimack Mfg. Co., and *for mail*, 111 Myrtle St., Lowell, Mass.
- HOSMER, Fred E. (Junior, 1914), Asst. M. E., Draftsman, Gulf Pipe Line Co., Beaumont, Tex.
- HOSMER, Sidney (1902), E. E., Edison Elec. Ill. Co. of Boston, 39 Boylston St., and 74 Bay State Rd., Boston, Mass.
- HOSSACK, Archibald B. (Junior, 1914), The Am. Appraisal Co., Rm. 1011, 85 Devonshire St., Boston, Mass.
- HOUCHIN, Ernest A. (1911), Pres., Houchin-Aiken Co., 113-123 53d St., Brooklyn, N. Y.
- HOUGH, David L. (1891; 1892), Nevsky No. 1, Petrograd, Russia.
- HOUGHTON, Bert (1914), Asst. Operating Engr., Edison Elec. Ill. Co. of Brooklyn, 360 Pearl St., and 673 E. 21st St., Brooklyn, N. Y.
- HOUGHTON, Charles E. (1899), Assoc. Prof. M. E., N. Y. Univ., and *for mail*, Univ. Hgts., New York, N. Y.
- HOUGHTON, Clyde A. (Junior, 1909), Ch. Engr., Pittsburgh & Butler Ry. Co., Nixon Bldg., Butler, Pa.
- HOUM, Carl A. (1914), Ch. Engr., U. S. Glue Co., and *for mail*, 114 Tenth St., Milwaukee, Wis.
- HOUSER, Arthur M. (1912), Mech. Expt., Crane Co., and *for mail*, 3630 W. Polk St., Chicago, Ill.
- HOUSKEEPER, William G. (1906; 1913), Engr., West. Elec. Co., 463 West St., and *for mail*, 103 Waverley Pl., New York, N. Y.
- HOUSTON, George H. (1913), Supt., The Root & Van Dervoort Engrg. Co., East Moline, and 1113 12th Ave., Moline, Ill.
- HOUSTON, Harold A. (Junior, 1913), Inspr. Tonnage Ratings, Mech. Dept., Rock Island Lines, 935 La Salle Sta., and *for mail*, 3636 Lexington St., Chicago, Ill.

- HOUSUM, Chenoweth (Associate, 1908), Allis-Chalmers Mfg. Co., and *for mail*, 502 Bradford Ave., Milwaukee, Wis.
- HOVEY, Otis E. (1913), Asst. Ch. Engr., Am. Bridge Co., 30 Church St., and 431 Riverside Drive, New York, N. Y.
- HOWARD, Cecil D. (1913; 1914), Draftsman, Natl. Transit Co. Shops, and *for mail*, 108½ Innis St., Oil City, Pa.
- HOWARD, Charles A. (Junior, 1907), M. E., Gunn, Richards & Co., 43 Wall St., New York, N. Y., and *for mail*, 198 E. Front St., Redbank, N. J.
- HOWARD, Charles P. (1880), Pres., James L. Howard & Co., and 116 Farmington Ave., Hartford, Conn.
- HOWARD, David C. (1914), Pres., DeLaney Forge & Iron Co., 300 Perry St., Buffalo, N. Y.
- HOWARD, Ernest E. (1913), Assoc. Engr., Harrington, Howard & Ash, 1012 Baltimore Ave., Kansas City, Mo.
- HOWARD, Frank E. (1914), Secy., Treas., James L. Howard & Co., 438 Asylum St., and *for mail*, 150 Collins St., Hartford, Conn.
- HOWARD, George K. (1914), Ch. Engr., Williamsburg and East. Power Stations, Transit Development Co., Kent and Division Aves., Brooklyn, and 344 Greenwood Ave., Richmond Hill, N. Y.
- HOWARD, Henry S. (1911; 1913), Engr., Holbrook Bldg., San Francisco, and 2065 Oakland Ave., Piedmont, Cal.
- HOWARD, Leslie E. (1915), Metallurgist, Simonds Mfg. Co., and *for mail*, 259 Niagara St., Lockport, N. Y.
- HOWARD, O. Zell (1908), Cons. Engr., 851 W. 181st St., New York, N. Y.
- HOWARTH, H. A. Stevens (1908), with Albert Kingsbury, Cons. Engr., and *for mail*, 6629 Wilkins Ave., Pittsburgh, Pa.
- HOWARTH, Jacob M. (Junior, 1913), Asst. Ch. Engr., Marshall Field & Co., 121 N. State St., and *for mail*, 5248 Prairie Ave., Chicago, Ill.
- HOWE, Albert W. (1903), Rep., Engr., Robert Wetherill & Co., 17 Battery Pl., New York, and *for mail*, Hotel St. George, Brooklyn, N. Y.
- HOWE, Dr. Charles S. (1915), Pres., Case Sch. of Applied Science, and 11125 Belleflower Rd., Cleveland, O.
- HOWE, Jack L. (Junior, 1915), Estimator, Salesman, Otis Elev. Co., 2300 Stockton St., San Francisco, Cal.
- HOWE, James F. (1915), Wire Rope Engr., Asst. to Dist. Mgr., Am. Steel & Wire Co., 94 Grove St., and *for mail*, 131 Lovell St., Worcester, Mass.
- HOWE, Ralph S. (Junior, 1915), Engr., H. W. Johns-Manville Co., 21th St. and 10th Ave., and *for mail*, 149 W. 93d St., New York, N. Y.
- HOWELL, Arthur K. (Junior, 1912), Sales Rep., Henry R. Worthington, and *for mail*, 335 Edith Ave., Memphis, Tenn.
- HOWELL, Edward I. H. (1889), M. E., 312 Bullitt Bldg., and 5218 Germantown Ave., Philadelphia, Pa.
- HOWELL, Frank B. (1901), 1807 Elmwood Ave., Buffalo, N. Y.
- HOWELL, Frank S. (Associate, 1909), M. E., Howell & Howell, 1182 Broadway, New York, and *for mail*, 21 Bancker Pl., New Rochelle, N. Y.
- HOWELL, Horace L. (Associate-Member, 1913), Bd. of Supvg. Engrs., 105 La Salle St., and 6453 S. Morgan St., Chicago, Ill.
- HOWELL, John W. (1914), Engr. Edison Lamp Wks., Genl. Elec. Co., Harrison, and *for mail*, 211 Ballantine Parkway, Newark, N. J.
- HOWELL, Kenneth B. (Junior, 1915), Engr., Barrett Mfg. Co., 17 Battery Pl., New York, N. Y., and 57 S. Clinton St., East Orange, N. J.
- HOWELL, Sylvester S. (1911), Cons. Engr., Chamberlain & Howell, 1719 Marquette Bldg., and 6615 Woodlawn Ave., Chicago, Ill.
- HOWELLS, Charles (1904), Box 164, Washingtonville, N. Y.

- HOWELLS, Frank E. (1913), Supt. of Shops, The Pa. Steel Co., and *for mail*, 355 Locust St., Steelton, Pa.
- HOWES, Benjamin A. (1916), Engr., 70 Fifth Ave., New York, N. Y.
- HOWES, Ray L. (Junior, 1913), Salesman, Fairbanks, Morse & Co., St. Louis, Mo.
- HOWIE, Howard B. (1913), Roane Iron Co., Chamberlain, Tenn.
- HOWLAND, Lewis A. (1910), Genl. Supt., Queens Borough Gas & Elec. Co., Far Rockaway, N. Y.
- HOWLETT, Lewis G. (Junior, 1903), Supt., Industrial Wks., and *for mail*, 1500 Sixth St., Bay City, Mich.
- HOXIE, Frederick J. (1907), Engr., Spec. Inspr., Asso. Factory Mut. Ins. Cos., 31 Milk St., Boston, Mass., and *for mail*, Phenix, R. I.
- HOXIE, George L. (1893; 1904), Hoxie & Goodloe, 50 E. 41st St., New York, N. Y., and 99 Clarewill Ave., Upper Montclair, N. J.
- HOXIE, V. W. (1915), Marine Dept., The Babcock & Wilcox Co., Sheldon Bldg., and 74 Commonwealth Ave., San Francisco, Cal.
- HOXIE, Wm. D. (1899), V. P., The Babcock & Wilcox Co., 85 Liberty St., New York, and 298 Washington Ave., Brooklyn, N. Y.
- HOYT, Frank W. (Junior, 1915), Miscellaneous Engrg., Winchester Repeating Arms Co., and *for mail*, 1497 Chapel St., New Haven, Conn.
- HOYT, Raymond D. (1913), V. P., Genl. Mgr., Warren Constr. Co., 700 Journal Bldg., Portland, Ore.
- HUBBARD, Allen (1910), Hollis French & Allen Hubbard, 88 Pearl St., Boston, and Montvale Crescent, Newton Centre, Mass.
- HUBBARD, Carleton W. (Junior, 1911), M. E., Fuel Engrg. Co. of N. Y., 106 E. 19th St., New York, and *for mail*, 2 E. 10th St., Brooklyn, N. Y.
- HUBBARD, Frank B. (Associate-Member, 1915), Plant Engr., Pierce-Arrow Motor Car Co., 1695 Elmwood Ave., and *for mail*, 1200 West Ave., Buffalo, N. Y.
- HUBBARD, George W. (1913), Asst. M. E., D. H. Burnham & Co., 1417 Ry. Exch. Bldg., Chicago, and 1409 Iowa St., Oak Park, Ill.
- HUBBELL, Charles W. (1913), Arch., Engr., 37 Fulton St., Pittston, Pa.
- HUBBELL, Lyman P. (1915), Pres., Fillmore Ave. Fdy. & Iron Wks., Inc., 153 Fillmore Ave., Buffalo, N. Y.
- HUBBELL, Richard L. (Junior, 1915), Nelson Valve Co., Chestnut Hill, Philadelphia, and *for mail*, 221 Gowan Ave., Mt. Airy, Philadelphia, Pa.
- HUBERT, Herman (1905), Prof., Univ. of Liege, Corra-Linn, Knyveton Rd., Bournemouth, England.
- HUDSON, Darwin S. (1915), Supvg. Field Engr. Constr. Dept., Consld. Gas Co. of N. Y., 130 E. 15th St., New York, N. Y.
- HUDSON, Frederick W. (1911), M. E., Natl. Iron Wks., Ltd., and *for mail*, 422 St. Clarens Ave., Toronto, Ont., Canada.
- HUDSON, Robert A. (Junior, 1909), Partner, Hunter & Hudson, 729 Rialto Bldg., San Francisco, and 1945 Berryman St., Berkeley, Cal.
- HUDSON, Wilbur G. (1906), V. P., Guarantee Constr. Co., 90 West St., New York, N. Y., and 753 De Graw Ave., Newark, N. J.
- HUESTIS, Bronson L. (Junior, 1913), M. E., 2610 Foster Ave., Brooklyn, N. Y.
- HUFF, Russell (1915), Ch. Engr., Dodge Bros., and 42 Longfellow Ave., Detroit, Mich.
- HUGHES, Burton S. (1908), Cons. Engr., 1014 Commercial Tribune Bldg., and 1303 Burdette Ave., W. H., Cincinnati, O.
- HUGHES, Davydd C. (1912), Pres., Hughes-Wessling Co., and *for mail*, 1774 Leland Ave., Chicago, Ill.

- HUGHES, Frederick G. (1913), Production Mgr., New Departure Mfg. Co., and *for mail*, 83 Maple St., Bristol, Conn.
- HUGHES, Henry M. (Junior, 1914), M. E., Franklin Steel Wks., Franklin, Pa.
- HUGHES, Richard H. (Associate-Member, 1914), V. P., Genl. Mgr., Crescent Portland Cement Co., Wampump, Lawrence Co., and *for mail*, 5518 Baum Blvd., Pittsburgh, Pa.
- HUGHES, Robert G. (1908), Secy., M. E., John W. Ferguson Co., and *for mail*, 152 Market St., Paterson, N. J.
- HUGO, T. W. (1882), Cons. Engr., 221 W. 6th Ave., Duluth, Minn.
- HULBERT, William R. (1906; 1912), Sales Mgr., Goldschmidt Thermit Co., 90 West St., New York, N. Y.
- HULETT, Frank E. (1906), Engr., Wellman-Seaver-Morgan Co., Cleveland, and *for mail*, 6 Rosalind Ave., East Cleveland, O.
- HULETT, Geo. H. (1903), V. P., Wellman-Seaver-Morgan Co., and *for mail*, 8724 Carnegie Ave., Cleveland, O.
- HULL, Foster J. (1912), 331 Eighth Ave., Pelham, N. Y.
- HULL, John D. (1916), 354 Colman Bldg., and University Club, Seattle, Wash.
- HULL, Monroe R. (1913), Supt. of Constr., Anaconda Copper Min. Co., and 417 W. 5th St., Anaconda, Mont.
- HUMBACH, Karl E. (Associate, 1913), Estimating Engr., Cambria Steel Co., and *for mail*, 750 Somerset St., Johnstown, Pa.
- HUME, Walter E. (1914), Engr., Otis Elev. Co., 26th St. and 11th Ave., New York, N. Y., and *for mail*, 76 Ames Ave., Rutherford, N. J.
- HUMES, W. Sharon (Junior, 1911), West. Rep., Transportation Utilities Co., 857 Peoples Gas Bldg., and 5106 Sheridan Rd., Chicago, Ill.
- HUMMEL, Charles F., Jr. (Junior, 1912), 197 Greenwood Ave., Richmond Hill, L. I., N. Y.
- HUMMEL, Frank L. (1912), Sales Engr., The Hooven, Owens, Rentschler Co., 39 Cortlandt St., New York, N. Y.
- HUMPHREY, Arthur L. (1915), V. P., Genl. Mgr., Westinghouse Air Brake Co., Wilmerding, Pa.
- HUMPHREY, Clifford W. (Associate, 1907), Cons. and Designing Engr., 327 S. La Salle St., and 1704 W. 102d St., Chicago, Ill.
- HUMPHREY, George S. (1901), Secy., C. W. Hunt Co., Inc., 61 Broadway, New York, N. Y.
- HUMPHREYS, Alex. C. (1884), Manager, 1907-1910; Vice-President, 1910-1911; President, 1912; Life Member; Pres., Humphreys & Miller, Inc., 165 Broadway, Pres., Buffalo Gas Co., New York, N. Y., Pres., Stevens Inst. of Tech., Hoboken N. J.
- HUNING, Arno E. (Junior, 1902), Owner, Arno Huning Elec. Co., 412 W. Central St., Albuquerque, New Mex.
- HUNT, Andrew M. (1895), 55 Liberty St., New York, N. Y.
- HUNT, Charles B. (1902), Supt. Constr., Buckeye Eng. Co., and 636 McKinley Ave., Salem, O.
- HUNT, Eugene A. (Junior, 1910), Hunt Engrg. & Sales Agency, 322 Baker-Detwiler Bldg., Los Angeles, Cal.
- HUNT, Harry V. (1916), Supt., The Hooven, Owens, Rentschler Co., and *for mail*, 517 N. D St., Hamilton, O.
- HUNT, Herbert R. (Junior, 1913), Engr., Arch., 517 Howard Bldg., and *for mail*, 10 Poplar St., Providence, R. I.
- HUNT, James L. (Junior, 1914), M. E. Testing Dept., Alberger Pump & Cond. Co., and *for mail*, 258 Liberty St., Newburgh, N. Y.
- HUNT, Leigh A. (1906), Pres., Hunt Engrg. Co., 515 Republic Bldg., Kansas City, Mo.

- HUNT, Paul B. (Junior, 1913), Draftsman, Allis-Chalmers Mfg. Co., and *for mail*, 479 64th Ave., West Allis, Wis.
- HUNT, Robert W. (1880), Manager, 1882-1885; President, 1891; Robert W. Hunt & Co., 2200 Insurance Exch. Bldg., and 77 E. Division St., Chicago, Ill.
- HUNT, S. H. (1913), Ch. Engr., The Newport Min. Co., Ironwood, and Bessemer, Mich.
- HUNT, Wm. F. (1894; Associate, 1903), Life Associate; Cons. Engr., 115 Broadway, New York, N. Y.
- HUNT, Wilson P. (Associate, 1913), Mgr., Moline Tool Co., and *for mail*, 319 26th St., Moline, Ill.
- HUNTAR, Felix (Associate-Member, 1915), Asst. Engr. Mch. Dept., Am. Can Co., 447 W. 14th St., and *for mail*, 62 Seaman Ave., New York, N. Y.
- HUNTER, Charles W. (1911; 1912), Gas Engr., Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass.
- HUNTER, Geo. E. (1890), Genl. Supt., Elgin Natl. Watch Co., and *for mail*, 325 Watch St., Elgin, Ill.
- HUNTER, Herbert C. (Junior, 1914), Otis Elev. Co., Harrison, N. J.
- HUNTER, J. S. (1889), 15 Washington St., Hartford, Conn.
- HUNTER, James D. (1894), V. P., Hunter Mch. Co., 48 Wall St., North Adams, Mass.
- HUNTER, James F. (1899; 1909), Asst. Engr. of Constr., Consltd. Gas Co., 4 Irving Pl., New York, and 1323 Dorchester Rd., Brooklyn, N. Y.
- HUNTER, John (1909), Manager, 1913-1916; Ch. Engr., Union Elec. Light & Power Co., 12th and Locust Sts., and 3103 Shenandoah Ave., St. Louis, Mo.
- HUNTER, John A. (1914), Prof. M. E., Univ. of Colo., Engrg. Bldg., Boulder, Colo.
- HUNTER, John Alexander (1909), Steam Engr., Am. Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, and 151 Dickson Ave., Ben Avon, Pa.
- HUNTINGTON, Clarence W. (1913), V. P., Genl. Mgr., Minneapolis & St. Louis R. R., Minneapolis, Minn.
- HURD, Charles H. (1902), V. P., Indianapolis Water Co., 113 Monument Pl., and 4430 Central Ave., Indianapolis, Ind.
- HURD, Robert J. (1894; 1897), Genl. Supt., M. E., The J. B. Wise Ammunition Co., and *for mail*, 134 Park St., Watertown, N. Y.
- HURDELL, Victor H. (Junior, 1912), Salesman, Internatl. Steam Pump Co., 465 John Hancock Bldg., Boston, Mass., and 2048 Broad St., Edgewood, R. I.
- HURLBURT, Alfred (Associate, 1902), Engr., Kansas City Gas Co., 910 Grand Ave., and 716 Glead Terrace, Kansas City, Mo.
- HURST, George L. (1912), Mgr. Dredging Dept., Union Iron Wks. Co., and *for mail*, 360 California St., San Francisco, Cal.
- HURXTHAL, Alpheus O. (Junior, 1915), Salesman, The Lunkenheimer Co., 138 High St., Boston, Mass.
- HUSON, Winfield S. (1887; 1891), Genl. Supt., Whitlock Ptg. Press Mfg. Co., and 12 Cottage St., Derby, Conn.
- HUSSEY, Charles W. (Junior, 1908), Ch. Engr. Plant A, Sayles' Bleacheries, Saylesville, R. I., and 33 St. Andrews Pl., Yonkers, N. Y.
- HUSSEY, Oren S. (1897), 201 Davis Ave., Brookline, Mass.
- HUSSEY, Wm. E. (1904), N. Y. Mgr. Providence Engrg. Wks., 50 Church St., New York, and 194 Bainbridge St., Brooklyn, N. Y.
- HUSTED, Clifford M. (1910; Associate-Member, 1916), Asst. Supt. Eagle Wks., Stand. Oil Co., Claremont, Jersey City, and *for mail*, 502 Garfield Ave., Jersey City, N. J.

- HUSTON, Charles L. (Associate, 1887), V. P., Wks. Mgr., Lukens Iron & Steel Co., V. P., Wks. Mgr., Jacobs-Shupert U. S. Fire Box Co., and 64 S. 1st Ave., Coatesville, Pa.
- HUTCHENS, Edward (1913), Mech. Supt., Federal Rubber Mfg. Co., Cudahy, and *for mail*, 866 Superior St., Milwaukee, Wis.
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- HUTCHINS, George F. (1910), Genl. Supt., Crompton & Knowles Loom Wks., and *for mail*, 20 Ripley St., Worcester, Mass.
- HUTCHINSON, Arthur H. (1899), Sales Engr., Frick Co., 406-407 Atlanta Natl. Bank Bldg., and *for mail*, 58 Ponce de Leon Pl., Atlanta, Ga.
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- HUTCHINSON, Charles T. (1910), Managing Editor West. Engrg., 420 Market St., San Francisco, Cal.
- HUTCHINSON, Ely C. (1912), Commer. Engr., The Pelton Water Wheel Co., 19th and Harrison Sts., San Francisco, and 2718 21st Ave., East Oakland, Cal.
- HUTCHINSON, George W. (1913), Ch. Engr., Keystone Coal & Coke Co., Greensburg, Pa.
- HUTCHISON, Miller R. (1912), Personal Rep., Thos. A. Edison, Ch. Engr., Edison Lab., Thos. A. Edison, Inc., Edison Storage Battery Co., Orange, and Llewellyn Park, West Orange, N. J.
- HUTCHISON, Richard (1900; 1904), Dist. Sales Mgr., Babcock & Wilcox Co., 35 Federal St., Boston, Mass.
- HUTSON, Henry L. (1906; 1908), Ch. Engr., Secy., A. M. Lockett & Co., Ltd., 533 Baronne St., and 721 Lowerline St., New Orleans, La.
- HÜTTINGER, Wilhelm R. (Junior, 1906), M. E., Lewis-Roth Co., Denckla Bldg., Philadelphia, and *for mail*, 58 W. Stratford Ave., Lansdowne, Pa.
- HUTTON, Frederick R. (1880), Secretary, 1883-1906; President, 1907; Life Member; Honorary Secretary of the Society, 29 W. 39th St.; Emeritus Prof. M. E., Columbia Univ.; Cons. Engr., Auto. Club of Am., and *for mail*, 257 W. 86th St., New York, N. Y.
- HUTTON, Mancius S. (Junior, 1908), 257 W. 86th St., New York, N. Y.
- HUTTON, Sol E. (1912), Cons. Engr., 115 Van Buren St., Moscow, Idaho.
- HVID, Marinus (1911; Associate-Member, 1914), Ch. Draftsman, Inland Steel Co., Indiana Harbor, Ind., and 1428 E. 67th Pl., Chicago, Ill.
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- HYATT, Herbert R. (1912), M. E. Sales Dept., Custodis Chimney Constr. Co., 95 Nassau St., New York, N. Y.
- HYDE, Charles E. (1885), Marine Engr., Naval Arch., 2108 66th St., Brooklyn, N. Y.
- HYDE, John S. (Associate, 1892), Pres., Genl. Mgr., Bath Iron Wks., Bath, Me.
- HYMAN, D. (1892), V. P., Empire Limestone Co., Hudson and 4th Sts., and Hotel Touraine, Buffalo, N. Y.
- HYMANS, Frederick (1912), Engr., Otis Elev. Co., New York, N. Y., and *for mail*, 3 Appleton Pl., Glen Ridge, N. J.
- IDDLES, Alfred (Junior, 1913), Instr. Drawing and Design, Mich. Agri. College, 412 Engrg. Bldg., and *for mail*, Box 793, East Lansing, Mich.
- IDELL, Frank E. (1889), Life Member; M. E., 50 Church St., New York, N. Y.
- IDELL, Percy C. (1901; 1909), M. E. Sales Dept., The Babcock & Wilcox Co., 85 Liberty St., New York, and *for mail*, 157 83d St., Brooklyn, N. Y.
- ILER, William T., Jr. (Junior, 1916), Junior Engr., Gunn, Richards & Co., 43 Exch. Pl., and *for mail*, 90 W. 164th St., New York, N. Y.

- ILLINGWORTH, George C. (Associate-Member, 1915), Dist. Sales Mgr. Murphy Iron Wks., 603 Union Trust Bldg., and 231 E. 4th St., Cincinnati, O.
- ILLMER, Louis (1913), Ch. Engr., Lake Heat Eng. Co., and *for mail*, Broad St., Milford, Conn.
- ILSLEY, John P. (1903; 1907), Niles-Bement-Pond Co., 111 Broadway, New York, and *for mail*, Fourth St., New Brighton, S. I., N. Y.
- IMBRIE, William M. Jr. (1913), Asst. Engr., Chattanooga Gas & Coal Products Co., James Bldg., Chattanooga, Tenn., and 76 Hillside Ave., Glen Ridge, N. J.
- INGALLS, Frederick D. B. (1909), Ch. Htg. and Vent. Engr., C. A. Dunham Co., and *for mail*, 309 N. 1st St., Marshalltown, Ia.
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- INOKUTY, Ariya (1915), Prof. M. E., College of Engrg., Imperial Univ., Tokio, Japan.
- INSLEE, Heber C. (1907), Engr. on Plant Work, The Babcock & Wilcox Co., Bayonne, N. J.
- INSLEY, William H. (1913), Pres., Genl. Mgr., Insley Mfg. Co., Indianapolis, Ind.
- IRELAND, Mark L. (1902; 1913), Capt. Coast Artillery Corps, U. S. A., Fort Greble, R. I.
- IRVIN, Richard (Associate-Member, 1914), Arch., Engr., 308-309 Union Bank Bldg., and 43 Meridan St., Pittsburgh, Pa.
- IRWIN, Franklin K. (1913), Salesman, Niles-Bement-Pond Co., 571 W. Washington Blvd., Chicago, and Hotel Evanston, Evanston, Ill.
- ISBELL, Howard L. (Junior, 1891), Asst. Ch. Engr., Am. Brass Co., Waterbury, and *for mail*, Rockwell Ave., Naugatuck, Conn.
- ISENBERG, Hans O. C. (1913), Ferro Mch. & Fdy. Co., and *for mail*, 1324 E. 111th St., Cleveland, O.
- ISERT, J. G. Hunt (1914), Genl. Supt., M. E., The Pyne Co., 1301 W. Main St., and *for mail*, 2040 Sherwood Ave., Louisville, Ky.
- ISHAM, Alonzo K. (1915), Pres., Genl. Mgr., West Coast Iron Wks., 4609 14th Ave., N. W., and 1759 26th Ave., N., Seattle, Wash.
- ISHAM, Henry S. (1902; 1907), Mch. Draftsman, I. R. T. Co., 165 Broadway, and *for mail*, 11 Wadsworth Ave., New York, N. Y.
- ISRAEL, Albert II. (Junior, 1913), 2957 Bainbridge Ave., New York, N. Y.
- ISRAEL, Charles II. (1912), Dist. Mgr., Harrisburg Fdy. & Mch. Wks., 619 Pennsylvania Bldg., and 5052 Walnut St., Philadelphia, Pa.
- IVENS, Edmund M. (Junior, 1908), Asst. Mgr. New Orleans Office, Skinner Eng. Co., 1017 Hibernia Bank Bldg., and *for mail*, 5002 Pitt St., New Orleans, La.
- IVES, Frederick W. (Junior, 1910), Instr. Rural Engrg., Ohio State Univ., and 2154 Tuller St., Columbus, O.
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- JACKSON, Arthur C. (1903; 1910), Genl. Supt., Secy., Treas., Miller Lock Co., 4533 Tacony St., Frankford, and *for mail*, 6445 Greene St., Germantown, Philadelphia, Pa.

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- JACKSON, Charles J. (1905), 30 S. 5th St., Easton, Pa.
- JACKSON, Dugald C. (1890), 248 Boylston St., and Mass. Inst. of Tech., Boston, Mass.; also D. C. & Wm. B. Jackson, 111 W. Monroe St., Chicago, Ill.
- JACKSON, Earl E. (Junior, 1915), Draftsman, Houchin Aiken Co., 113 53d St., Brooklyn, and *for mail*, 2498 Eighth Ave., New York, N. Y.
- JACKSON, Francis W. (1909), Cons. Engr., 20 Dufferin St., Kingston, Ont., Canada.
- JACKSON, Henry D. (1912), Cons. Engr., 88 Broad St., Boston, and 39 Albion St., Medford, Mass.
- JACKSON, Henry W. (Junior, 1913), Hess. Bright Mfg. Co., Front St. and Erie Ave., Philadelphia, and *for mail*, Maple Ave., near Union Ave., Cynwyd P. O., Cynwyd, Pa.
- JACKSON, John P. (1903), Pa. Commr. Labor and Industry, Harrisburg, Dean Sch. of Engrg., Pa. State College, State College, Pa.
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- JACKSON, Lucian C. (1901), Cons. Gas Eng. Expt., 905 D. S. Morgan Bldg., and *for mail*, 351 Hoyt St., Buffalo, N. Y.
- JACKSON, Percy (Junior, 1904), Ellis Hotel, Chattanooga, Tenn.
- JACKSON, Walter W. (1902), Ch. Draftsman, The Regina Co., Rahway, and Sewaren, N. J.
- JACKSON, Wm. B. (1901), Manager, 1912-1915; Vice-President, 1915-1917; Life Member; D. C. & Wm. B. Jackson, Harris Trust Bldg., 111 W. Monroe St., and 5450 East View Park, Chicago, Ill.
- JACOBS, Arthur I. (1913), Pres. Treas., Genl. Mgr., The Jacobs Mfg. Co., Hartford, Conn.
- JACOBS, Henry W. (1905), Pres., Oxweld R. R. Serv. Co., 339 Ry. Exch., Chicago, Ill., and 117 Greenwood Ave., Topeka, Kan.
- JACOBS, Ward S. (1897; 1904), Treas., The Walton Co., and *for mail*, 530 Farmington Ave., Hartford, Conn.
- JACOBUS, D. S. (1889), Manager, 1900-1903; Vice-President, 1903-1905; President, 1916; Advis. Engr., The Babcock & Wilcox Co., 85 Liberty St., New York, N. Y., and Spec. Lecturer Exper. Engrg., Stevens Inst. of Tech., Hoboken, and 70 Summit Ave., Jersey City, N. J.
- JACOBUS, Robert F. (1907; 1912), Francisco & Jacobus, 200 Fifth Ave., New York, N. Y., and *for mail*, Ridgfield, N. J.
- JACOBY, Benj. (1914), M. E., Marion Steam Shovel Co., and *for mail*, 421 S. State St., Marion, O.
- JAHNCKE, Ernest L. (Associate, 1901), Pres., The Jahncke Navigation Co., 814 Howard Ave., and 1823 Palmer Ave., New Orleans, La.
- JAKOBSSON, Herman (1907), Registered Pat. Atty., Cons. Engr., 700 Tenth St., N. W., Washington, and 101 Oak Ave., Takoma Park Sta., D. C.
- JAKOWLEFF, Dmitry (1914), Sub-Prof., Military Engrg. Academy, and *for mail*, Spasskaya 25, Petrograd, Russia.
- JAMES, William A. (1915), Ch. Engr., Lackawanna Steel Co., Buffalo, N. Y.
- JAMIESON, Major Charles C. (1911), Efficiency Engr., Deere & Co., Moline, Ill.
- JAMISON, Alpha P. (Junior, 1900), Prof. Mech. Drawing, Purdue Univ., and *for mail*, 111 State St., W. S., Lafayette, Ind.
- JANNEY, Reynold (1912), M. E., 21 Claremont Ave., New York, N. Y.
- JANVIER, Henry A. (1912), Asst. M. E., Ferracute Mch. Co., and *for mail*, 219 E. Commerce St., Bridgeton, N. J.
- JAPPE, Kurt W. (Junior, 1912), 1210 Bloomfield St., Hoboken, N. J.

- JAQUAYS, Homer M. (1899; 1903), Ch. Engr. Montreal Branch, The Steel Co. of Canada, Ltd., 1272 Notre Dame St., Montreal, and *for mail*, 645 Grosvenor Ave., Westmount, Que., Canada.
- JAQUES, Wm. H. (1893), Capt. and Pres., Hampton Water Wks. Co., Progress Mfg. Co., 142 Beacon St., Boston, Mass., and *for mail*, Little Boar's Head, N. H.
- JARECKI, Alexander (1889; 1905), Secy., Jarecki Mfg. Co., and *for mail*, 305 W. 6th St., Erie, Pa.
- JARVIS, Charles M. (1890), Vice-President, 1897-1899; Berlin, Conn.
- JAY, Walter F. (1914), Wks. Mgr., Power Spec. Co., and *for mail*, 31 Chestnut Ave., Dansville, N. Y.
- JEALOUS, Arthur R. (Junior, 1908), Asst. Wks. Mgr., Clark Thread Co. and Clark Mile End Spool Cotton Co., and 254 Mt. Pleasant Ave., Newark, N. J.
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- JEFFCOTT, Robert C. (1912), V. P., Genl. Mgr., The Cott-a-lap Co., Somerville, N. J.
- JEFFERIES, E. A. W. (1892), M. E., Morgan Constr. Co., and 656 Main St., Worcester, Mass.
- JEFFERIES, Frederick L. (1900; 1905), Supt., Corn Products Refining Co., Argo, Cook Co., Ill.
- JEHLE, Ferdinand (Junior, 1913), Lab. Engr., The Auto. Club of Am., 247 W. 54th St., and *for mail*, 561 W. 180th St., New York, N. Y.
- JELLETT, Stewart A. (1915), Cons. and Constr. Engr., 1718 Real Estate Trust Bldg., Philadelphia, Pa.
- JELLUM, Kristen (Junior, 1916), Designer, Engr., The Winslow Safety High Pressure Co., P. O. Box 803, Winslow Bros. Co., and *for mail*, 1511 N. Avers Ave., Chicago, Ill.
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- JENKS, Richard P. (1902), Cons. Engr., Jenks & Ballou, 735 Grosvenor Bldg., Providence, and 1358 Narragansett Blvd., Edgewood, R. I.
- JENKS, William H. (1889), Brookville, Pa.
- JENNENS, Arthur E. (Junior, 1912), Constr. Foreman, Phoenix Constr. Co., Kearns Bldg., and *for mail*, Box 1362, Salt Lake City, Utah.
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- JESSEN, N. B. (1912), 9 Cloak Lane, Cannon St., London, E.C., England.
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- JETT, Carter C. (Junior, 1902), Rep., Cincinnati Photoprint Co., 24 Bodmann Bldg., and 320 Broadway, Cincinnati, O.
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- JEWELL, George H. (Associate, 1914), Mgr. of Sales, Lytton Mfg. Corp., Franklin, Va.
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- JEWETT, Frank N. (1908), Sales Mgr., Wagner Elec. Mfg. Co., 6400 Plymouth Ave., and *for mail*, 6 Parkland Pl., St. Louis, Mo.
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- JOHNSON, Adolph T. (Junior, 1915), 3822 Walnut St., Denver, Colo.
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- JOHNSON, Charles L. (1915), Clerical Supt., Genl. Mfg. Dept., West. Elec. Co., Hawthorne Sta., Chicago, Ill.
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- JOHNSON, Frank E. (1915), Supt., The Kelly & Jones Co., Greensburg, Pa.
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- JOHNSON, Henry S. (1914), Babylon, L. I., N. Y.
- JOHNSON, Henry W. (1913), Russell, Burdsall & Ward Bolt & Nut Co., and *for mail*, 217 N. Regent St., Port Chester, N. Y.

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- JOHNSON, Robert (1913), Engr. in Charge, Hecker-Jones-Jewell Milling Co., Corlears and Water Sts., New York, and 151 S. 9th St., Brooklyn, N. Y.
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- JOHNSTONE, Francis W. (1909), Fort Smith & West. R. R. Co., and 201 N. 17th St., Fort Smith, Ark.
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- JONES, Ellis H. (1913), Supt., Canadian Yale & Towne, Ltd., and *for mail*, 26 Duke St., St. Catharines, Ont., Canada.
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- JOURDIN, Willis W. (1912), Ch. Engr. Power Plant, Inspiration Consltd. Copper Co., Internatl. Smelting Co., Box 1024, Miami, Ariz.
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- JOY, Robert (1911), Supt. Boiler Dept., Kingsford Fdy. & Mch. Wks., Oswego, N. Y.
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- JUNGHANS, Edward K. (1908), Supt. Fabrication, Ch. Engr., Succession J. Serralles, Central Mercedita, Ponce, P. R.
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- JUNKINS, John N. (Junior, 1915), Engr., Aberthaw Constr. Co., care of Winchester Repeating Arms Co., and 39 Lynwood Pl., New Haven, Conn.
- JURGENSEN, Jess C. (1905; 1914), Supt., United Piece Dye Wks., Lodi, N. J.
- JUST, George A. (1904), Cons. Engr., Pres., George A. Just Co., 239 Vernon Ave., Long Island City, and Empire Hotel, New York, also Scarsdale, N. Y.
- JUTHE, Kristian A. (1914), N. E. Rep., Firth-Sterling Steel Co., 128 Sidney St., Cambridge, and *for mail*, 261 Homer St., Newton Centre, Mass.
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- KAIGHN, Herbert E. (1913), Ballistic Engr., Exper. Sta., E. I. du Pont de Nemours & Co., Henry Clay P. O., and *for mail*, 2600 Harrison St., Wilmington, Del.
- KALES, Wm. R. (1894; 1914), Ch. Engr., Whitehead & Kales Iron Wks., Beecher Ave. and Mich. Central R. R., and *for mail*, 195 Burns Ave., Detroit, Mich.
- KALEY, George B. (Junior, 1913), Ch. Draftsman, Taylor-Wharton Iron & Steel Co., High Bridge, N. J., and *for mail*, 242 Sunnyside Ave., Brooklyn, N. Y.
- KAMMANN, Franz (1914), Ch. Engr., Briegleb, Hansen & Co., and *for mail*, Helenenstr. 2, Gotha, Germany.
- KAMMERHOFF, H. H. Meno (1914), E. E., Mgr., Carboic Acid Div., Thomas A. Edison, Inc., and *for mail*, 159 Cleveland St., Orange, N. J.
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- KANE, Thomas H. (1914), Wks. Mgr., Trussed Concrete Steel Co., Youngstown, O.
- KAPY, Artturi A. (Junior, 1903), Factory Inspr., Dist. of Lahti, Lahti, Finland.
- KARCHER, Harry E. (Junior, 1914), Retort Foreman, Am. Creosoting Co., 2110 Prospect St., Indianapolis, Ind.
- KARL, Robert H. (1914), Asst. Supvg. Engr., Anheuser Busch Brewing Asso., 9th and Pestalozzi St., and *for mail*, 4353 Maryland Ave., St. Louis, Mo.
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- KARR, Ernest M. (1905; 1913), Gifford-Wood Co., and *for mail*, 335 Warren St., Hudson, N. Y.
- KASLEY, John H. (1915), Engr. of Mfg. Layouts, West. Elec. Co., Hawthorne Sta., Chicago, and 215 Forest Ave., Oak Park, Ill.
- KASSANDER, A. R. (Junior, 1913), Carbondale Mch. Co., P. O. Box 176, and Y. M. C. A., Carbondale, Pa.
- KASTLER, Edward L. (Junior, 1913), M. E., Kastler Cereal Co., and *for mail*, 1446 College Ave., Racine, Wis.
- KATTE, Edwin B. (1895; 1901), Manager, 1910-1913; Vice-President, 1913-1914; Ch. Engr. Elec. Traction, N. Y. C. & H. R. R. R., 5048 Grand Central Terminal, New York, and Irvington, N. Y.
- KATZENSTEIN, Martin L. (1903; 1915), Mgr. Marine Dept., Internatl. Steam Pump Co., 115 Broadway, and *for mail*, 52 E. 81st St., New York, N. Y.
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- LANE, Henry Marquette (1900), Cons. Fdy. Engr., Pres., The H. M. Lane Co., Trussed Concrete Bldg., Detroit, and 208 Highland Ave., Highland Park, Detroit, Mich.
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- LARNER, Chester W. (1907; 1912), Hyd. Engr., Wellman-Scaver-Morgan Co., Cleveland, O.
- LARSON, Gustus L. (1915), Asso. Prof. Steam and Gas Engrg., Univ. of Wis., and *for mail*, 204 N. Pinckney St., Madison, Wis.
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- LAWTON, Charles L. (1915), Genl. Mgr., Quincy Mine, Hancock, Mich.
- LAWTON, James E. (1912), Ch. Inspr., The Panama Canal, and *for mail*, 40 V St., N. W., Washington, D. C.
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- LAWTON, Ralph W. (1914), Mgr., Jewell Export Filter Co., 10 Clive St., Calcutta, India.
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- LEE, William S. (1907), Ch. Engr., So. Power Co., Trust Bldg., Charlotte, N. C.
- LEEPER, Ralph W. (Junior, 1908), Genl. Elec. Co., Provident Bank Bldg., Cincinnati, O.
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- LOBER, William D. (1911), Secy., Treas., Vulcanite Portland Cement Co., 1230 Land Title Bldg., Philadelphia, and 234 Church Rd., Ardmore, Pa.
- LOCK, Robert (Associate, 1913), Pres., Mgr., Apollo Steel Co., Apollo, Pa.
- LOCKETT, Andrew M. (1900), Pres., A. M. Lockett & Co., Ltd., 533 Baronne St., and 1639 Robert St., New Orleans, La.
- LOCKETT, Kenneth (1904; 1907; 1913), V. P., Orr & Lockett Hdw. Co., 14-16 W. Randolph St., and 5116 Dorchester Ave., Chicago, Ill.
- LOCKWOOD, Edwin H. (1890; 1903), Asst. Prof. M. E., S. S. S., Yale Univ., and *for mail*, 52 Division St., New Haven, Conn.
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- LOCKWOOD, Rutherford T. (Junior, 1904), Asst. Supt., Stand. Oil Co. of N. Y., Kingsland and Greenpoint Ave., and *for mail*, 1418 President St., Brooklyn, N. Y.
- LOCKWOOD, Ryland L. (1913), Pres., Lockwood & Almquist, Inc., 112 E. 19th St., New York, and 1050 Park Pl., Brooklyn, N. Y.
- LODGE, Wm. (1890), Pres., Lodge & Shipley Mch. Tool Co., 3055 Colerain Ave., and 800 Ridgway Ave., Cincinnati, O.
- LOEB, Alfred H. (Junior, 1915), Rolled Wheel Dept., The Midvale Steel Co., and *for mail*, St. James Hotel Annex, Philadelphia, Pa.
- LOEB, Leo (Junior, 1911), M. E., J. H. Weaver & Co., 61 Broadway, New York, N. Y., and 6 High St., Glen Ridge, N. J.
- LOEPSINGER, Albert J. (1908; 1913), M. E., Genl. Fire Extinguisher Co., P. O. Box 1435, Providence, and *for mail*, 112 Arnold Ave., Edgewood, R. I.
- LOEWY, George J. (1914), Prin., Murray Hill Vocational Sch., Dept. of Education, City of N. Y., 237 E. 37th St., New York, N. Y.
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- LOF, Otto J. (Associate, 1913), Expt. in Grinding and Grinding Wheels in Europe for Norton Co., of Worcester, Mass., 74 Mühlenstr., Pankow, Berlin, Germany.
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- LOGAN, Frank J. (1894), V. P., Treas., Logan Iron Wks., Commercial St., and 285 DeKalb Ave., Brooklyn, N. Y.

- LOGAN, James (Associate, 1904), First V. P., Genl. Mgr., U. S. Envelope Co., 75 Grove St., and *for mail*, 222 Salisbury St., Worcester, Mass.
- LOGAN, John W. (1894; 1899; 1904), Mgr. Steel Wks. Dept., Alan Wood, Iron & Steel Co., Conshohocken, Pa.
- LOGAN, Wm. J. (1880), Life Member; Logan Iron Wks., Commercial and Clay Sts., and *for mail*, care of H. H. Russell, 106 Ashford St., Brooklyn, N. Y.
- LOIZEAUX, Alfred S. (1915), E. E., Supt. Constr., Consld. Gas, Elec. Light & Power Co., Baltimore, Md.
- LONDON, William J. A. (1910), Ch. Engr., Terry Steam Turbine Co., Hartford, Conn.
- LONG, George A. (1914), Genl. Mgr., The Gray Telephone Pay Sta. Co., Arbor St., and *for mail*, 32 Lorraine St., Hartford, Conn.
- LONG, Jeremiah C. (1905), Ch. Engr., Boston Woven Hose & Rubber Co., Cambridge, and *for mail*, 2 Emery St., Everett, Mass.
- LONG, L. Guy (1913), M. E., Fairbanks-Morse Elec. Mfg. Co., and *for mail*, 1906 Commerce Ave., Indianapolis, Ind.
- LONGENECKER, Charles (1892), 150 Nassau St., New York, N. Y.
- LONGINO, James L. (Associate-Member, 1915), Secy., Engr., Ark. Light & Power Co., Arkadelphia, Ark.
- LONGSTRETH, Charles (1899), Pres., U. S. Metallic Packing Co., 427 N. 13th St., and 1631 Spruce St., Philadelphia, Pa.
- LÓNGWELL, Henry E. (1901), Genl. Mgr., The Westinghouse Air Spring Co., Smedley Bldg., 3, New Haven, Conn.
- LOOMIS, Burdett, Jr. (1904), 843 Prospect Ave., Hartford, Conn., and *for mail*, care of Pierce Phosphate Co., Pierce, Fla.
- LOOMIS, Evarts G. (1913), M. E., The Arlington Co., Arlington, and *for mail*, 678 Highland Ave., Newark, N. J.
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- LORD, Chester B. (1913), Genl. Supt., Wagner Elec. Mfg. Co., 6400 Plymouth Ave., and *for mail*, 5714 Chamberlain Ave., St. Louis, Mo.
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- LORD, Zenas N. (1916), Dept. Foreman, Genl. Elec. Co., and *for mail*, 25 Bernice Ave., West Lynn, Mass.
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- LORING, Ernest J. (1912), The Lamson Co., 100 Boylston St., Boston, and *for mail*, 157 Highland Ave., Somerville, Mass.
- LORING, Harrison, Jr. (1910), Rm. 622, 53 State St., Boston, and 174 Bellevue St., West Roxbury, Mass.
- LORSCH, Edwin S. (1903), Mem. of Firm, Sussfeld, Lorsch & Co., 90-94 Maiden Lane, and 2 W. 89th St., New York, N. Y.
- LOSEY, John B. (1914), Supt. Amphion Piano Player Co., and *for mail*, 1337 Madison St., Syracuse, N. Y.

- LOSS, Henrik V. (1892), Cons. Engr., North Am. Bldg., Philadelphia, Pa.
- LOTHROP, Marcus T. (Junior, 1908), Timken Roller Bearing Co., Canton, O.
- LOUD, Henry S. (1901), Ch. Engr., U. S. Wood Preserving Co., 165 Broadway, New York, N. Y.
- LOUDER, James W. (1914), Supt., Nazareth Cement Co., and *for mail*, 34 N. New St., Nazareth, Pa.
- LOUDON, Andrew C. (Junior, 1913), Assoc. Editor, Ry. Age Gazette, Woolworth Bldg., New York, N. Y.
- LOUER, Lewis S. (Associate, 1900), West. Mgr., F. W. Dodge Publishing Co., 842 Monadnock Bldg., Chicago, Ill.
- LOUTREL, Cyrus H. (Junior, 1912), Asst. Factory Mgr., Natl. Lock Washer Co., and *for mail*, 65 Johnson St., Newark, N. J.
- LOVEJOY, Frank W. (1901; 1914), Genl. Mgr. Mfg. Depts., Eastman Kodak Co., and Seneca Parkway, Rochester, N. Y.
- LOVELAND, George E. (1913), Res. Engr. Cap Wks., E. I. du Pont de Nemours & Co., Pompton Lakes, N. J.
- LOVELL, Alfred (1899), Cons. Engr., 619 Harrison Bldg., and 31 Sellers Ave., W. Market St. Sta., Philadelphia, Pa.
- LOVELL, Ralph L. (1915), Cons. Engr., Pat. Expt., 38 Edgemere Rd., Quincy, Mass.
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- LOWE, Raymond M. (1913), Ch. Engr. for Dutch East Indies, The Kelly Filter Press Co., care of Van Lelyveld & Co., and Oranje Hotel, Soerabaya, Java, Dutch East India.
- LOWE, Wm. V. (1889; 1892), Engrg. and Sales Rep., Hess-Bright Mfg. Co., Box 387, and 27 Mechanic St., Fitchburg, Mass.
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- LOWELL, George C. (1913), Supt. Coke Plant, Ill. Steel Co., and *for mail*, 744 Jackson St., Gary, Ind.
- LOWER, Nathan M. (1913), M. E., Loco. Stoker Co., Schenectady, N. Y.
- LUCAS, Henry M. (1904), Lucas Mch. Tool Co., E. 99th St. and L. S. & M. S. R. R., Cleveland, and *for mail*, 82 Page Ave., East Cleveland, O.
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- LUCHT, Frederick W., Jr. (Junior, 1915), Instr. M. E., Colo. Sch. of Mines, Golden, Colo.
- LUCK, George A. (1915), Deputy Ch., Mass. Inspe. Dept., Chairman Bd. of Boiler Rules, 3 State House, Boston, and *for mail*, 333 Windsor St., Cambridge, Mass.
- LUCKE, Charles E. (1903; 1908), Prof. M. E., Columbia Univ., and 544 W. 142d St., New York, N. Y.
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- LUDLOW, Charles G. (1902), West. Mgr., Crosby Steam Gage & Valve Co., 180 N. Market St., and 743 Montrose Ave., Chicago, Ill.
- LUDY, Llewellyn V. (1905), Prof. Exper. Engrg., Purdue Univ., and 229 University St., Lafayette, Ind.
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- LUEHRS, Daniel M. (Junior, 1907), Genl. Supt. Guilford Plant, Crown Cork & Seal Co., and *for mail*, Windsor Hills Apts., Clifton Ave. and Queen Anne Rd., Baltimore, Md.
- LUFKIN, Elgood C. (1896), V. P., The Tex. Co., 17 Battery Pl., New York, N. Y.
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- LUHR, Otto (1907), Cons. Engr., 154 W. Randolph St., and *for mail*, 4024 Clarendon Ave., Chicago, Ill.
- LUKE, William Allan (1915), Mgr. Covington Mill, W. Va. Pulp & Paper Co., Covington, Va.
- LUKENS, Wm. P. (Junior, 1914), Mechanic, Hupp Motor Car Co., Woodlyn, Pa.
- LUMMIS, Charles W. (Associate, 1907), Asst. Mgr. Gas Producer Dept., Morgan Constr. Co., and *for mail*, 636 S. Main St., Worcester, Mass.
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- LUSTER, Emile J. (1914), M. E., Sherritt & Stoer Co., Inc., 603 Finance Bldg., and 5824 Cedar Ave., Philadelphia, Pa.
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- LUTZE, Jay H. (Junior, 1915), Designer, The Bristol Co., Waterbury, and *for mail*, 6 Fairview Ave., Naugatuck, Conn.
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- LYLE, Joel I. (1906), Mgr., Carrier Air Conditioning Co., 39 Cortlandt St., New York, N. Y., and 1200 W. 7th St., Plainfield, N. J.
- LYMAN, Elihu R. (Junior, 1904), Asst. Wks. Mgr., Dexter Folder Co., Pearl River, N. Y.
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- LYNCH, Thomas M. (Associate-Member, 1915), Asst. Mgr., Buena Vista Extract Co., Buena Vista, Va.

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- LYNN, Thomas H. (Junior, 1913), Sales Mgr., Lycoming Fdy. & Mch. Co., and 410 Third Ave., Williamsport, Pa.
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- LYON, Jesse D. (1913), Engr., 2216 Union Central Bldg., and 3265 Menlo Ave., Cincinnati, O.
- LYON, Percy S. (Junior, 1915), Exper. Engr., Harrison Safety Boiler Wks., 3146 N. 17th St., Philadelphia, Pa.
- LYON, Tracy (1893), Engr., Hotel Margaret, Brooklyn, N. Y.
- LYONS, James W. (1902), 245 Clinton Ave., Oak Park, Ill.
- LYSTER, T. L. B. (1916), Ch. Engr., Hooker Electrochemical Co., and 421 Buffalo Ave., Niagara Falls, N. Y.
- LYTLE, Charles W. (Junior, 1916), Co-ordinator, Mechanics Inst., and 72 Cambridge St., Rochester, N. Y.
- McADAM, John V. (1916), Pres., Revolute Mch. Co., 417 E. 93d St., New York, and Hastings-on-Hudson, N. Y.
- McALLISTER, Addams S. (1913), 32 W. 40th St., New York, N. Y.
- McALLISTER, Daniel H. (1911), Supt., Utah Lake Irrigation Co., Lehi, Utah.
- McALPINE, Bruce C. (1914), M. E., Frost Gear & Mch. Co., Jackson, Mich.
- McARDELL, Wesley E. (Junior, 1915), Teacher Mch. Shop Practice and Trade Math., Vocational Sch. for Boys, 138th St. and 5th Ave., New York, N. Y.
- McARTHUR, Arthur R. (1906), Res. Engr., Am. Sheet & Tin Plate Co., and *for mail*, 674 Harrison St., Gary, Ind.
- McBANE, Walter W. (1908; 1914), Engr., The William Tod Co., and *for mail*, 525 Bryson St., Youngstown, O.
- McBRIDE, F. Reed (Junior, 1915), Real Estate, Investments, 507 Broadway Bldg., and *for mail*, 487 E. 23d St., N., Portland, Ore.
- McBRIDE, Thomas C. (1908), Sales Mgr., Internatl. Steam Pump Co., North Am. Bldg., and 240 W. Cheltenham Ave., Philadelphia, Pa.
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- McCALLISTER, Edgar W. (1912), The Westinghouse Mch. Co., East Pittsburgh, Pa.
- McCANDLISH, Robert M. (Associate, 1915), Pres., Robert M. McCandlish Engrg. Co., 724-725 Midland Bldg., and 954 W. 32d St., Kansas City, Mo.
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- McCANN, Warren E. (Junior, 1910), Salesman, Am. Rolling Mill Co., and *for mail*, 6th and Main Sts., Middletown, O.; also, 109 E. Washington Lane, Germantown, Philadelphia, Pa.
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- McCARTY, Richard J. (1901), V. P., K. C. So. Ry. Co., Thayer Bldg., and *for mail*, 3820 Warwick Blvd., Kansas City, Mo.
- McCAULEY, Louis G. (1914), M. E., The Fairbanks Co., and *for mail*, 28 Crary Ave., Binghamton, N. Y.
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- McCOLL, J. R. (1903), Mem. of Firm, Ammerman, McColl & Anderson, 1310 Penobscot Bldg., Dean Engr. Dept., Univ. of Detroit, and 195 Chicago Blvd., Detroit, Mich.
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- McFARLAND, A. R. (1902), Wks. Mgr., Solvay Process Co., and 609 Willis Ave., Syracuse, N. Y.

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- McKENNAN, Jacob B. (Junior, 1899), Mgr. Minnequa Wks., Colo. Fuel & Iron Co., and 2016 Oakland Ave., Pueblo, Colo.
- McKIBBEN, Frederick W. J. (1914), Pres., Tompkins Bros. Co., 35 Cypress St., and 1 Balsam Ave., Troy, N. Y.
- McKIBBEN, H. B. (Junior, 1910), Draftsman Washoe Smelter, Anaconda Copper Min. Co., and *for mail*, 511 W. 5th St., Anaconda, Mont.
- McKIEVER, William H. (1900), Htg., Vent., Power Plants, 1123 Broadway, New York, and *for mail*, 502 First St., Brooklyn, N. Y.
- McKINNEY, Edward B., Sr. (1907), Supt. of Power, New Orleans Ry. & Light Co., 205 Baronne St., and *for mail*, 1323 Octavia St., New Orleans, La.
- McKINNEY, Robt. C. (1890), Manager, 1902-1905; Vice-President, 1905-1907; Pres., Niles-Bement-Pond Co., Pratt & Whitney Co., 111 Broadway, New York, N. Y.
- McKINNON, William R. (Junior, 1910), 901 E. Washington St., Ann Arbor, Mich.
- McLAREN, A. R. (1912), Partner, Pac. Gurney Elev. Co., 186 Fifth St., and *for mail*, 2377 Filbert St., San Francisco, Cal.
- McLAREN, George C. (Junior, 1914), M. E., Whittier Water Co., Greenleaf Ave., and *for mail*, 447 N. Washington Ave., Whittier, Cal.
- McLAREN, Lewis L. (Junior, 1916), Steam Engr., Wis. Steel Co., South Chicago, and 600 Herkimer St., Joliet, Ill.
- McLAUTHLIN, Martin B. (1909), Engr., Treas., Geo. T. McLauthlin Co., 120 Fulton St., Boston, and *for mail*, 65 Rockland Ave., Malden, Mass.
- McLEAN, Robert W. (1907; 1913), M. E., Carver Cotton Gin Co., East Bridge-water, and Bridgewater, Mass.
- McLEOD, Adolphus A. (1910), Engr., Supt., Fla. Phosphate Min. Corp., and *for mail*, Bartow, Fla.
- McMEANS, O. E. (1904; 1913), Cons. Engr., 710 Majestic Bldg., and *for mail*, 591 Middle Drive, Woodruff Pl., Indianapolis, Ind.
- McMEEN, Samuel G. (1913), Cons. Engr., Pres., Columbus Ry. & Light Co., 1001 Wyandotte Bldg., Columbus, O.
- McMILLAN, Chas. M. (Junior, 1909), Pur. Agt., The Jahneke Navigation Co., 814 Howard Ave., and *for mail*, 1234 Arabella St., New Orleans, La.
- McMILLAN, Luther B. (Junior, 1913), Instr. Steam and Gas Engrg., Univ. of Wis., College of Mech. and Engrg., Madison, Wis.
- McMILLEN, Albert K. (1913), Ch. Engr., Alex Laughlin & Co., 1805 First Natl. Bank Bldg., and 2949 Zephyr Ave., Pittsburgh, Pa.
- McMILLIN, Emerson (1895), Life Member; Chairman Bd. of Directors, Am. Light & Traction Co., 40 Wall St., New York, N. Y., and *for mail*, "Darlington," Ramsey, N. J.
- McMULLEN, Cornelius L. (Junior, 1913), Sales Engr., Fuller & Johnson Mfg. Co., and *for mail*, 916 E. Gorham St., Madison, Wis.
- McMULLEN, Vincent E. (1907; 1911), Supt., Hercules Gas Eng. Co., and *for mail*, 422 Kentucky Ave., Evansville, Ind.
- McMULLIN, Frank V. (1903), Treas., Pa. Forge Co., Bridesburg Sta., and 3412 Deveraux St., Philadelphia, Pa.

- McMURTRY, Alden L. (1911), Cons. Engr., Sound Beach, Conn.
- McNAIRY, Amos B. (1902), Mfr., Hickox Bldg., Cleveland, O.
- McNALLY, John H. (Junior, 1915), Smoke Insp., Bureau of Boiler Insp., 305 City Hall, and *for mail*, 1036 E. Chelton Ave., Philadelphia, Pa.
- McNAUGHTON, James (1903), V. P., Am. Loco. Co., 30 Church St., and 402 W. 154th St., New York, N. Y.
- McNEILL, Merritt C. (1912), Asst. to Pres., The Osgood Co., and *for mail*, 465 Delaware Ave., Marion, O.
- McNEILL, Joseph H. (1911), Ch. Insp. N. Y. Dept., Hartford Steam Boiler Insp. & Ins. Co., 100 William St., New York, and 222 E. 17th St., Brooklyn, N. Y.
- McPIERSON, Charles J. (Associate-Member, 1914), Asst. Ch. Draftsman, J. G. Brill Co., Philadelphia, Pa.
- McSOLEY, Frank B. (Junior, 1912), Serv. Dept., Narragansett Elec. Ltg. Co., and *for mail*, 585 Cranston St., Providence, R. I.
- McWEENY, Laurence R. (Junior, 1909), Factory Accountant, Russell, Burdshall & Ward Bolt & Nut Co., and *for mail*, 29 Washington St., Port Chester, N. Y.
- MacARTHUR, Clarence P. (Associate-Member, 1915), M. M., Bowen Mfg. Co., Auburn, N. Y.
- MacARTHUR, John E. (1913), Genl. Supt., Robinson Fire Apparatus Mfg. Co., 4250 N. 20th St., and 3605 Delmar Blvd., St. Louis, Mo.
- MacARTHUR, Robert, Jr. (Associate, 1904), Supt. M. P., Sargent & Co., and *for mail*, 226 McKinley Ave., New Haven, Conn.
- MacCART, Raymond D. (Junior, 1915), Draftsman, Quincy Market Cold Storage & Warehouse Co., 69 Eastern Ave., Boston, and *for mail*, 23 Pleasant St., Dorchester, Mass.
- MacCORQUODALE, Peter H. (1906), Asst. Supt., Church & Dwight Co., 1416 Willis Ave., and *for mail*, 218 Coleridge Ave., Syracuse, N. Y.
- MacDONALD, Karl (Associate-Member, 1915), Designing Engr. Steam Turbine Dept., Southwark Fdy. & Mch. Co., 430 Washington Ave., Philadelphia, and *for mail*, 918 S. Paxon St., West Philadelphia, Pa.
- MacDONALD, Malcolm S. (1913), C. A. MacDonald, Ltd., 542 Point Rd., Durban, South Africa. *
- MacDOWELL, Francis M. (Junior, 1914), Draftsman, Power Spec. Co., 111 Broadway, New York, N. Y.
- MacEWAN, Thomas S. (Junior, 1915), M. E., S. K. F. Ball Bearing Co., 50 Church St., New York, N. Y., and *for mail*, 121 High St., West Hoboken, N. J.
- MacFARLAND, Helon B. (1907), Engr. of Tests, Atchison, Topeka & Santa Fe Ry. System, 914 Ry. Exch., and 5758 Kenwood Ave., Chicago, Ill.
- MacGILL, Charles F. (1896), Efficiency Engr., Remington Arms & Ammunition Co., and *for mail*, 257 William St., Bridgeport, Conn.
- MacGREGOR, Wallace F. (1901; 1914), Supt. Exper. Dept., J. I. Case Threshing Mch. Co., and 422 16th St., Racine, Wis.
- MacGREGOR, Walter (1906), 430 W. Grand Blvd., Detroit, Mich.
- MacINTOSH, Walter L. (1915), Ch. Draftsman, Consld. Gas Co. of N. Y., 130 E. 15th St., New York, N. Y.
- MacKENZIE, Donald (Junior, 1902), Asst. Mgr. Constr. Dept., Union Stock Yards, Swift & Co., and 9323 Winchester Ave., Longwood, Chicago, Ill.
- MacKINNON, John A. (Associate-Member, 1915), Riverside Club, Penns Grove, N. J.
- MacLAREN, Malcolm N. (1899), Nordberg Mfg. Co., 120 Broadway, New York, N. Y.

- MacLAUCHLAN, James H. (1907), Genl. Mgr., Surety Engrg. Co., Inc., 127 Duane St., New York, and 23 Dongan St., West New Brighton, S. I., N. Y.
- MacLEOD, Daniel T. (1901; 1907), Asst. Engr., The Schniewind Coke Oven Co., 6 Church St., New York, N. Y., and *for mail*, 430 Lincoln Ave., Orange, N. J.
- MacLEOD, Frank N. (1912), Sales Engr., Brown & Sharpe Mfg. Co., and *for mail*, 290 Irving Ave., Providence, R. I.
- MacMARTIN, James M. (1914), Ch. Engr., The Del. & Hudson Co., foot of State St., and Hampton Hotel, Albany, N. Y.
- MacMASTER, Ronald K. (1913; Associate-Member, 1914), 454 Jefferson Ave., Elizabeth, N. J.
- MacMURRAY, James T. (1904), Genl. Mgr., Niles-Bement-Pond Co., Plainfield, N. J.
- MacNABB, Arthur W. (Junior, 1914), Engrg. Dept. Inspec. Div., Fidelity & Casualty Ins. Co., 92 Liberty St., New York, N. Y., and *for mail*, 134 S. 10th St., Newark, N. J.
- MacNAUGHTON, Edgar (Junior, 1915), Instr. M. E., Tufts College, and *for mail*, 7 Edison Ave., Tufts College, Mass.
- MACALISTER, Robert N. (1913), M. E., Robt. W. Hunt & Co., 2200 Insurance Exch., and 4422 N. Lincoln St., Chicago, Ill.
- MACBETH, George T. (1915), Ch. Gas Engr., Westchester Ltg. Co., 1st Ave. and 1st St., and 312 S. 4th Ave., Mt. Vernon, N. Y.
- MACDONALD, Duncan H. (1903), Wks. Mgr., Wickes Bros., and 614 S. Park St., Saginaw, Mich.
- MACDONALD, George M. (1912), Ballistic Engrg., Remington Arms Union Metallic Cartridge Co., and *for mail*, The University Club, Bridgeport, Conn.
- MACDONALD, Harry P. (1914), Supt., The Snead & Co. Iron Wks., Foot of Pine St., Jersey City, N. J.
- MACDONALD, J. W. Franklin (1915), Ch. Draftsman, Internatl. Engrg. Wks., Framingham, and *for mail*, 47 Hobson St., Brighton, Mass.
- MACDONALD, James V. (Junior, 1895), Mem. of Firm, Ranald H. Macdonald & Co., 29 W. 34th St., and 170 W. 74th St., New York, N. Y.
- MACFARLANE, James (1908), Supt., Dredging, The Panama Canal, Paraiso, Canal Zone.
- MACHOLD, Charles E. (1901), Contr. Engr., Machold & Riddell, Stephen Girard Bldg., Philadelphia, and 6820 Quincy St., Germantown, Philadelphia, Pa.
- MACINTIRE, Horace J. (1907; 1913), Asst. Prof. M. E., Univ. of Wash., Seattle, Wash.
- MACK, George J. (Junior, 1909), Mgr., Mack Bros. Steam Boiler Wks., 405 Marcellus St., Syracuse, N. Y.
- MACK, John G. D. (1890), Prof. Mch. Design, College of Engrg., Univ. of Wis., and *for mail*, 110 E. Johnson St., Madison, Wis.
- MACKENZIE, Edmund (1909), Supvg. Engr. Constr. Work with R. Blakstad, Karl Johansgade 41/III, Kristiania, and *for mail*, Jyssedal, Hardanger, Norway.
- MACKENZIE, G. Earl (Junior, 1915), Winchester Repeating Arms Co., and *for mail*, 28 College St., New Haven, Conn.
- MACKENZIE, Morell (Junior, 1912), Glenlyon Dye Wks., Phillipsdale, and *for mail*, 149 Irving Ave., Providence, R. I.
- MACKENZIE, William P. (1907), V. P., Genl. Sales Mgr., Harrisburg Fdy. & Mch. Wks., 504 Pennsylvania Bldg., Philadelphia, and 5028 Schuyler St., Germantown, Philadelphia, Pa.

- MACKIE, Daniel M. (1914), Genl. Foreman, The Chain Belt Co., and *for mail*, 174 32d St., Milwaukee, Wis.
- MACKIE, Edwin M. (1915), Asst. Engr., Pneumelec. Mch. Co., 581 S. Clinton St., and *for mail*, 1102 Midland Ave., Syracuse, N. Y.
- MACKINTOSH, Frederick L. (1912), Supt. of Non-Production Depts., Winchester Repeating Arms Co., and *for mail*, 410 Dixwell Ave., New Haven, Conn.
- MACKLIND, William R. (1914), Mgr. Engrg. and Constr. Dept., The Sherwin-Williams Co., 601 Canal Rd., N. W., and *for mail*, 1596 Ansel Rd., Cleveland, O.
- MACLAREN, J. Gayton (1908; 1912), V. P., Ch. Engr., Butler & Maclaren, Inc., 7 W. 37th St., New York, and *for mail*, P. O. Box 541, Harrison, N. Y.
- MACLEAN, Malcolm R. (Junior, 1913), Mgr. Sales Miscellaneous Dept., Am. Steel Foundries, Pittsburgh, Pa.
- MACNOE, George (Junior, 1914), Draftsman, Power Spec. Co., Dansville, N. Y.
- MACON, William W. (1903; Associate, 1911), Engrg. Editor, The Iron Age, 239 W. 39th St., New York, and 711 Ave. J, Brooklyn, N. Y.
- MACY, Nelson (1915), Pres., Corlies Macy & Co., 441 Pearl St., New York, N. Y., and Hope Farm, Greenwich, Conn.
- MADDOCK, Geo. F. (1903), Sutter Basin Co., Fruit Bldg., Sacramento, Cal.
- MADDOCKS, Wm. H. (1891), Asst. Supt. Mch. and Equip., M., K. & T. Ry., and *for mail*, 2311 W. Crawford Ave., Parsons, Kan.
- MAGEE, John F. (Junior, 1916), Engrg. Dept., Alpha Portland Cement Co., and 613 Paxinosa Ave., Easton, Pa.
- MAGIE, William E. (1913), South Milwaukee, Wis.
- MAGRATH, Charles B. (Junior, 1911), The Lethbridge Iron Wks., Ltd., Lethbridge, Alberta, Canada.
- MAGRUDER, Wm. T. (1884), Prof. M. E., Ohio State Univ., and 342 W. 9th Ave., Columbus, O.
- MAGUIRE, Jeremiah D. (1911), Pres., Maguire Rubber Co., R. R. Utilities Co., 30 Church St., and 512 Fifth Ave., New York, N. Y.
- MAGUIRE, M. T. (Associate, 1910), Engr. Power Dept., Bethlehem Steel Co., South Bethlehem, Pa.
- MAHER, Eugene E. (Associate-Member, 1914), Chicago Mgr., Lea-Courtenay Co., 1466 Conway Bldg., and Ill. Athletic Club, Chicago, Ill.
- MAHL, Frederick W. (1892; 1910), Dir. of Purchases, So. Pac. Co., Rm. 2132, 165 Broadway, New York, and *for mail*, 20 Primrose Ave., Mt. Vernon, N. Y.
- MAHON, Wm. L'E. (1889), Engr., Meese & Gottfried Co., 660 Mission St., San Francisco, and *for mail*, 422 62d St., Oakland, Cal.
- MAHONEY, John A. (Junior, 1913), Draftsman, Elec. Boat Co., Groton, and *for mail*, 86 Blydenburg Ave., New London, Conn.
- MAHONEY, John F. (Junior, 1915), Draftsman Fire Dept., Tel. Bureau, Municipal Bldg., New York, and *for mail*, 707 Sterling Pl., Brooklyn, N. Y.
- MAIN, Charles T. (1885), Life Member; Manager, 1914-1917; Engr., Rms. 817-833, 201 Devonshire St., Boston, and 14 Herrick St., Winchester, Mass.
- MAIR-RUMLEY, John G. (1892), Life Member; Messrs. Gwynnes, Ltd., Hammer-smith Iron Wks., London, W., England.
- MAJOR, C. C. (1902; 1912), Assoc. Prof. M. E., Ia. State College, Box 166, and 912 Kellogg Ave., Ames, Ia.
- MAKEPEACE, Charles R. (1915), Life Member; Arch., Mill Engr., C. R. Makepeace & Co., Butler Exch. Bldg., and 275 Wayland Ave., and *for mail*, Box 1146, Providence, R. I.
- MALLET, Anatole (Honorary, 1912), 30 Ave. Trudaine, Paris, and 57 Rue de France, Nice, Alpes-Maritimes, France.

- MALLORY, Charles K. (1907), Engr. Constr. and Maintenance, The Solvay Process Co., and *for mail*, 1235 James St., Syracuse, N. Y.
- MALM, Axel C. V. (Associate-Member, 1916), Supt., The Egly Register Co., and *for mail*, 22 Bellevue Ave., Dayton, O.
- MALONE, John A. (Junior, 1915), Asst., Stand. Oil Co. of N. Y., Ballard Rd., Bombay, India.
- MALTBY, Geo. B. (1904), Genl. Mgr., The Geo. B. Maltby Co., 719-721 St. Clair Ave., N. E., and *for mail*, 1931 E. 101st St., N. E., Cleveland, O.
- MALVERN, Lewis K. (1894; 1903), M. E., Elgin Natl. Watch Co., and *for mail*, 12 Warwick Pl., Elgin, Ill.
- MANCHESTER, Henry C. (1915), Supt. M. P. and Equip., D. L. & W. R. R. Co., Scranton, Pa.
- MANKER, Forrest W. (Junior, 1915), Moulton Engrg. Corp., Portland, Me.
- MANLEY, Sumner M. (Junior, 1907), Asst. M. E., The Proctor & Gamble Co., Ivorydale, and *for mail*, Ivy St., Glendale, O.
- MANN, Harvey B. (Junior, 1911), 1104 Diamond Bank Bldg., Pittsburgh, Pa.
- MANN, Howard L. (Associate-Member, 1914), Pres., Treas., Mann Corp., Kankakee, Ill.
- MANNING, Capt. Charles H. (1884; Honorary, 1913), Manager, 1892-1895; Vice-President, 1895-1897; Ch. Engr., U. S. N. Ret., Cons. Engr., Chas. H. and Chas. B. Manning, 1004 Amoskeag Bank Bldg., and 1838 Elm St., Manchester, N. H.
- MANSFIELD, Albert K. (1887), 283 Lincoln Ave., Salem, O.
- MANSFIELD, Clifford B. (Junior, 1914), Draftsman, C. E., The Palmetto Phosphate Co., Tiger Bay, Polk Co., Fla.
- MANSFIELD, Julian B. (1914), Ch. Engr., V. P., Genl. Mgr., The J. E. Bolles Iron & Wire Wks., Inc., and *for mail*, 53 Porter St., Detroit, Mich.
- MANTIUS, Otto (1915), Cons. Engr., U. S. Industrial Alcohol Co., Curtis Bay, and 1021 St. Paul St., Baltimore, Md.
- MANZ, Louis C. (1913), Asst. Engr., Supt., Water Dept., City Hall, and *for mail*, 126 Ocean Ave., Atlantic City, N. J.
- MARBLE, Edwin H. (1915), Pres., Curtis & Marble Mch. Co., 72 Cambridge St., and *for mail*, 42 Tirrell St., Worcester, Mass.
- MARBLE, Ernest G. (1909), Genl. Sales and Wks. Mgr., Am. Engrg. Co., Philadelphia, and 52 E. Sedgwick St., Germantown, Philadelphia, Pa.
- MARBURG, Louis C. (1909), Secy., Treas., Marburg Bros., Inc., 1790 Broadway, New York, N. Y.
- MARDAGA, Louis (Junior, 1913), Lehigh Univ., Section A, Taylor Hall, South Bethlehem, Pa.
- MARK, Perry C. (Associate-Member, 1913), Asst. Mgr., Mark Mfg. Co., and *for mail*, 100 Mohler St., Zanesville, O.
- MARKEY, Harold I. (Junior, 1914), Hyd. Turbine Dept., The Wellman-Seaver-Morgan Co., E. 70th St. and Central Ave., and *for mail*, 943 E. 130th St., Cleveland, O.
- MARKEY, Harry S. (1912), Ch. Engr., City Elec. Co., 320 Beach St., and 2254 Leavenworth St., San Francisco, Cal.
- MARKHAM, Edward R. (1903), Instr. M. E., Harvard Univ. and Rindge Tech. Sch., and 137 Fresh Pond Parkway, Cambridge, Mass.
- MARKS, Harry J. (1907), N. Y. Rep., Am. Eng. & Elec. Co., 90 West St., New York, and *for mail*, 86 Palmer Ave., Mamaroneck, N. Y.
- MARKS, James H. (Associate-Member, 1914), Supt. Bldgs. and Grounds Dept., Univ. of Mich., and *for mail*, 726 Packard St., Ann Arbor, Mich.
- MARKS, Lionel S. (1897; 1904), Prof. M. E., Harvard Univ., and 192 Brattle St., Cambridge, Mass.

- MAROT, Edward H. (Junior, 1903), Sales Engr., 4931 Chester Ave., West Philadelphia, Pa.
- MARQUINA, Luis G. (1906), Engr., The Peruvian Corp., Ltd., and 520 Plaza Bolognesi, Lima, Peru, S. A.
- MARQUIS, Franklin W. (1908; 1914), Prof. Steam Engrg., Ohio State Univ., Columbus, O.
- MARR, Geo. H. (1891; 1905), M. E., Hollingsworth & Whitney Co., and *for mail*, 94 Silver St., Waterville, Me.
- MARSH, Thomas A. (1905; 1912), Ch. Engr., Green Engrg. Co., 28 E. Jackson St., and *for mail*, 1463 E. 68th St., Chicago, Ill.
- MARSHALL, Ernest W. (1904), Pat. Lawyer, 76 William St., New York, and 1195 Warburton Ave., Yonkers, N. Y.
- MARSHALL, Norman (1910), Cons. Engr., 107 Chestnut St., West Newton, Mass.
- MARSHALL, Stewart M. (1907; 1910), Mgr. Turbine, Cond. and Pump Depts., Southwark Fdy. & Mch. Co., 5th St. & Washington Ave., and *for mail*, A4 Montevista Apts., 63d and Oxford Sts., Philadelphia, Pa.
- MARSHALL, Waldo H. (1893), Pres., Am. Loco. Co., 30 Church St., and 135 Central Park W., New York, N. Y.
- MARSHALL, William C. (1901; 1909), Remington Arms & Ammunition Co., and *for mail*, University Club, Bridgeport, Conn.
- MARSHALL, William E. (Junior, 1914), Instr., Stevens Inst. of Tech., Castle Point, Hoboken, N. J., and *for mail*, 7 Columbia Pl., Maspeth, L. I., N. Y.
- MARTELL, Louis H. (1906), Spec. in Metal Packings, Elyria, O.
- MARTENIS, John V. (1913), Asst. Prof. M. E., Univ. of Minn., and 206 Harvard St., S. E., Minneapolis, Minn.
- MARTENS, Ferdinand (1885), care of John G. Embree, College Point, L. I., N. Y.
- MARTIN, Edward J. (1907; Associate-Member, 1915), Mgr., Conn. Elec. Mfg. Co., Bridgeport, and *for mail*, 1855 Main St., Stratford, Conn.
- MARTIN, Frank M. (1912), Asst. Wks. Supt., The Celluloid Co., 290 Ferry St., Newark, and 42 Sommer Ave., Maplewood, N. J.
- MARTIN, Frederick S. (1905), Supt. Industrial Motor Dept., Westinghouse Elec. & Mfg. Co., East Pittsburgh, and *for mail*, 309 Hutchinson St., Swissvale Sta., Pittsburgh, Pa.
- MARTIN, George W. (1911), V. P., Genl. Mgr., The N. Y. Serv. Co., 329 Broadway, New York, N. Y.
- MARTIN, Haakon A. (Associate, 1908), Head Invention, 5, Natl. Cash Register Co., Dayton, O.
- MARTIN, Hubert H. (Junior, 1915), Ch. Inspr., Northwestern Mutual Fire Asso., 208 Columbia St., Seattle, Wash.
- MARTIN, Kingsley G. (Junior, 1913), Publicity Dept., Mergenthaler Linotype Co., Tribune Bldg., and *for mail*, 414 W. 120th St., New York, N. Y.
- MARTIN, Louis A., Jr. (1912), Prof. Mech., Dean Junior Class, Stevens Inst. of Tech., and *for mail*, 911 Castle Point Terrace, Hoboken, N. J.
- MARTIN, Mack (1908), 809 W. Chickasaw St., Oklahoma City, Okla.
- MARTIN, Wallace H. (Junior, 1913), Instr. M. E., Univ. of Minn., Minneapolis, and 1475 Cleveland Ave., St. Paul, Minn.
- MARTINTO, Pedro (Associate, 1901), Apartado 146, Lima, Peru, S. A.
- MARTUS, Martin L. (1912), M. E., Mgr., Secy., The Waterbury Battery Co., 1036 S. Main St., and *for mail*, 97 Coniston Ave., Waterbury, Conn.
- MARX, Guido H. (1901), Prof. Mch. Design, Leland Stanford Jr. Univ., Stanford University P. O., and 356 Lincoln Ave., Palo Alto, Cal.

- MARX, Henry (1880; 1892), Pres., The G. A. Gray Co., Gest and Depot Sts., and Vista Terrace, Sta. O, Cincinnati, O.
- MARX, Henry J. (Junior, 1913), Safety and Sanitary Engr., Moline Plow Co., S. Water St., and *for mail*, 36 Gate St., Poughkeepsie, N. Y.
- MARZOLI, Luigi (Junior, 1908), Genl. Mgr., Supt., Fratelli Marzoli & Cie., Palazzola s/Oglio, Prov. of Brescia, Italy.
- MASON, Clyde S. (1913), Jepson, Mason & Co., Brisbane Bldg., Buffalo, N. Y., and *for mail*, 218 John St., Grand Rapids, Mich.
- MASON, Daniel A. (1899; 1902), Supt., N. Y. Tribune Bldg., 154 Nassau St., New York, and *for mail*, 372 Stuyvesant Ave., Brooklyn, N. Y.
- MASON, Earl P. (1914), Secy., Supt., Newport Engrg. Wks., 359 Thames St., Newport, R. I.
- MASON, Frederick H. (1901; 1913), Feed Water Purification, Itg., Power Plant Spec., Brick and Concrete Chimney Constr., 614 Moffat Bldg., and 53 Seward Ave., Detroit, Mich.
- MASON, William H. (1901; 1913), 470 Richmond Ave., South Orange, N. J.
- MASSA, Robt. F. (1904), Mgr. Genl. Refrig. Mch. Dept., H. W. Johns-Manville Co., 41st St. and Madison Ave., New York, N. Y.
- MASSEY, Geo. B. (Junior, 1898), Cons. Engr., Geo. B. Massey Co., Peoples Gas Bldg., Chicago, and Winnetka, Ill.
- MASURY, Alfred F. (1904; 1913), Ch. Engr. with E. R. Hewitt, Cons. Engr., Internatl. Motor Co., 64th St. and West End Ave., and *for mail*, 345 W. 70th St., New York, N. Y.
- MATCHETT, James C. (Junior, 1912), Ill. Engrg. Co., 5021 S. State St., and 1448 E. Marquette Rd., Chicago, Ill.
- MATHESON, Wm. G. (1891), Mgr., I. Matheson & Co., Ltd., New Glasgow, N. S. Canada.
- MATHEWS, John A. (1913), Pres., Genl. Mgr., Holcomb Steel Co., Syracuse Crucible Steel Co., and 500 Comstock Ave., Syracuse, N. Y.
- MATHEWS, William E. (1895), Supvr., Inspec. and Tests, Norwalk Iron Wks. Co., and 40 West St., South Norwalk, Conn.
- MATHEWSON, Frank E. (1913), Dir. Tech. and Industrial Dept., Wm. L. Dickinson High Sch., Jersey City, N. J.
- MATHEWSON, James S. (Junior, 1916), Instr. Engrg., Univ. of Akron, Akron, O.
- MATHEY, Henry C. (Associate, 1915), Asst. Engr., Underwriters' Labs., Inc., 135 William St., New York, N. Y.
- MATLACK, Ellwood V. (1904), 515 Bompert Ave., Webster Groves, Mo.
- MATLOCK, Chauncey (1913), Cons. M. E., 30 E. 42d St., New York, N. Y.
- MATSCOSS, Conrad (1913), Life Member; Prof. History of Tech. and Industries, Berlin Tech. High Sch., and *for mail*, Sommerstr. 4a, Berlin N. W. 7, Germany.
- MATTER, Edward G. (1913), Mgr., The Natl-Acme Mfg. Co., 1327 Majestic Bldg., and 153 Merrick Ave., Detroit, Mich.
- MATTES, Wm. F. (1882), Life Member; Ret., 1529 Sanderson Ave., Scranton, Pa.
- MATTHEWS, Fred. E. (1904; 1911), Refrig. Engr., Leonia, N. J.
- MATTHEWS, John G. (1897; 1907), Instr. Mech. Drawing, East Tech. H. S., Cleveland, and *for mail*, 17 Beech St., Berea, O.
- MATTICE, Asa M. (1889), Manager, 1903-1906; Advis. Engr., Remington Arms-Union Metallic Cartridge Co., 233 Broadway, New York, and R. F. D. 5, Box 4, Lockport, N. Y.
- MATTON, Fred V. (1892), M. E., Camden Iron Wks., Camden, N. J.
- MATTSON, Earl N. (Junior, 1915), Sales Engr., Am. Cast Iron Pipe Co., Birmingham, Ala., and 6428 Stewart Ave., Chicago, Ill.

- MATTSSON, A. George (1915), Cons. Engr., Great Lakes Engr. Wks., and 305 Lincoln Ave., Detroit, Mich.
- MAUGER, David N. (Junior, 1911), The Babcock & Wilcox Co., 85 Liberty St., New York, N. Y., and *for mail*, 23 Laramie Rd., Plainfield, N. J.
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- MAXFIELD, Daniel E. (1914), Supt., Florence Iron Wks., Florence, N. J.
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- MAXWELL, Maxwell C. (1908), Supt. of Power and Plant, Yale & Towne Mfg. Co., Stamford, Conn.
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- MERRYWEATHER, Geo. E. (1903), Pres., Motch & Merryweather Mch. Co., 707-715 Lakeside Ave., N. W., and 11,326 Hessler Rd., Cleveland, O.
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- MILLER, John F. G. (1910), Engrg. Salesman, St. Louis Mgr., Am. Blower Co., Title Guaranty Bldg., and 230 N. Boyle Ave., St. Louis, Mo.
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- MOORE, Allen H. (1902), Genl. Elec. Co., Schenectady, and *for mail*, 579 Western Ave., Albany, N. Y.
- MOORE, Charles B. (1914), V. P., Oxweld R. R. Serv. Co., 339 Ry. Exch., Chicago, Ill.
- MOORE, Edmund B. (Junior, 1913), Engrg. Rep., Jones & Lamson Mch. Co., and *for mail*, 47 Summer St., Springfield, Vt.

- MOORE, Edwin A. (1908), Pres., Wilbraham Green Blower Co., Pottstown, and *for mail*, 2216 N. 52d St., Wynnefield Sta., W., Philadelphia, Pa.
- MOORE, Ernest A. (1913), Kenneth Anderson Co., 33 E. Atwater St., and 199 Delaware Ave., Detroit, Mich.
- MOORE, Frederick C. (1905), 9719 Parkgate Ave., Cleveland, O.
- MOORE, H. Lee (Junior, 1913), Charge Pittsburgh Office, Buffalo Forge Co., 1211 House Bldg., Pittsburgh, Pa.
- MOORE, Harold T. (Associate, 1907), Industrial Engr., Day & Zimmermann, 611 Chestnut St., and *for mail*, 2031 Spruce St., Philadelphia, Pa.
- MOORE, Herbert F. (1913), Prof. Engrg. Materials, Engrg. Exper. Sta., Univ. of Ill., Urbana, Ill.
- MOORE, James L. (1911), Ch. Engr., Factory Mgr., Kerr Turbine Co., Wells-ville, N. Y.
- MOORE, Lee C. (1902), Cons. M. E., Lee C. Moore & Co., 341 Sixth Ave., and *for mail*, 1813 Morrell St., N. S., Pittsburgh, Pa.
- MOORE, Levin A. (1912), Ch. Engr., Roessler & Hasslacher Chem. Co., and *for mail*, 125 Kearny Ave., Perth Amboy, N. J.
- MOORE, M. F. (Associate, 1915), Asst. to Pres., Kewanee Boiler Co., Kewanee, Ill.
- MOORE, Miller F. (1891), 320 Chestnut St., Roselle, N. J.
- MOORE, R. S. (1892), Manager, 1901-1904; Life Member; Treas., Moore & Scott Iron Wks., 678 Second St., and 1899 California St., San Francisco, Cal.
- MOORE, Samuel L. (1907), V. P., Genl. Mgr., The Moore Bros. Co., and *for mail*, 205 Stiles St., Elizabeth, N. J.
- MOORE, Stanley H. (1900; Associate, 1903), Arch., Engr., Forest and Selma Ave., Webster Groves, Mo.
- MOORE, William E. (1903), W. E. Moore & Co., Cons. Engr., West Penn Traction Properties, 705 Union Bank Bldg., and 219 N. Dithridge St., Pittsburgh, Pa.
- MOORE, William J. (Associate-Member, 1914), Designing Engr., Niles-Bement-Pond Co., and *for mail*, 920 W. 4th St., Plainfield, N. J.
- MOORE, William J. P. (1885; 1888), Alberger Pump & Cond. Co., 140 Cedar St., and *for mail*, 629 W. 115th St., New York, N. Y.
- MORAN, Daniel E. (1886; 1904), Cons. Engr., 55 Liberty St., New York, N. Y., and Mendham, Morris Co., N. J.
- MORAN, Daniel J. (Junior, 1913), Engr. in Charge, The Tex. Co., Port Arthur, Tex., and 620 S. Boulder Ave., Tulsa, Okla.
- MORAT, Jacques (1909), Spuyten Duyvil, and 314 Riverdale Ave., Yonkers, N. Y.
- MORAVA, Wensel (1886), Pres., Morava Constr. Co., and *for mail*, 4846 Kenwood Ave., Chicago, Ill.
- MOREHEAD, George L. (1912), Asst. Ch. Engr., Link-Belt Co., 39th St. and Stewart Ave., and *for mail*, 7200 Princeton Ave., Chicago, Ill.
- MOREHEAD, William C. (1913; Associate-Member, 1914), First V. P., Natl. Light & Power Co., Pierce Bldg., St. Louis, Mo.
- MORETON, George W. (1909), Genl. Supt., Betts Mch. Co., and 1323 Gilpin Ave., Wilmington, Del.
- MORFORD, Thomas E. (1902), N. Y. Mgr., Am. Steam Pump Co., 17 Battery Pl., New York, N. Y.
- MORGAN, David B. (1912), 1124 Asbury Ave., Evanston, Ill.
- MORGAN, Edward J. (Associate-Member, 1914), Engr., Alberger Pump & Cond. Co., 115 W. Monroe St., and *for mail*, 4739 Washington Blvd., Chicago, Ill.
- MORGAN, Henry (Associate-Member, 1914), M. E., 302-304 Second Natl. Bank Bldg., Wilkes-Barre, Pa.

- MORGAN, John D. (1913), Pat. Solicitor, Mech. Expt., Atty., 2 Rector St., New York, N. Y.
- MORGAN, John T. (Junior, 1912), Dist. Sales Agt., The Ohio Brass Co., 1503 Virginia St., Charleston, W. Va.
- MORGAN, Joseph (1881), Vice-President, 1886-1888; Cons. Engr., 408 Tioga St., Westmont, Johnstown, Pa.
- MORGAN, Lewis H. (1904; 1906), Mountain Ave., Scotch Plains, N. J.
- MORGAN, Paul B. (1891; 1900), Treas., Morgan Constr. Co., 21 Lincoln St., and 21 Cedar St., Worcester, Mass.
- MORGAN, Ralph L. (1900; 1902), Cons. Engr., 452 Main St., and 96 William St., Worcester, Mass.
- MORGAN, Robert C. (1911), Engr., Stewart A. Jellett, Franklin Bank Bldg., Philadelphia, and *for mail*, 314 W. Seymour St., Philadelphia, Pa.
- MORGAN, William F. (Associate, 1906), N. E. Agt., Am. Mfg. Co., Beacon and Joy Sts., Boston, Mass.
- MORGANA, Charles, Jr. (Junior, 1913), Charge of Meh. Tool Engrg. Dept., Ford Motor Co., and 3000 W. Grand Blvd., Detroit, Mich.
- MORHOUS, Oakley A. (Associate, 1915), Chem. Charge Consld. Lab., Consld. Gas Co. of N. Y., 501 E. 21st St., New York, N. Y.
- MORITZ, Albert (1905), Comdr., U. S. Navy, Ret., 723 E. 18th St., Brooklyn, N. Y.
- MORLAN, Wilbert (1914), Engr. Charge Pumping Sta., Queens Co. Water Co., Valley Stream, N. Y.
- MORRELL, Alfred M. (Associate-Member, 1914), Mgr. Drop Forging Dept., Pur. Agt., Spicer Mfg. Co., 308 W. 4th St., and *for mail*, 823 Madison Ave., Plainfield, N. J.
- MORRILL, Guy L. (Junior, 1913), Engrg. Salesman, York Mfg. Co., 207 Maritime Bldg., Seattle, Wash.
- MORRILL, Harley W. (1913), Genl. Supt., Ludlow Mfg. Associates, and *for mail*, 7 Park Pl., Ludlow, Mass.
- MORRIN, Thomas (1897), Cons. M. E., Phelan Bldg., and 2928 Pacific Ave., San Francisco, Cal.
- MORRIS, Albert W. (1914), Cons. Engr., A. W. Morris Co., Page Blvd., Ch. Engr., Harley Co., and 179 Bay St., Springfield, Mass.
- MORRIS, Thomas B. (Junior, 1910), M. E., E. K. Morris & Co., and *for mail*, 3116 McHenry Ave., Cincinnati, O.
- MORRIS, W. Cullen (1915), Engr. of Constr., Consld. Gas Co. of N. Y., and The Astoria Light, Heat & Power Co., 130 E. 15th St., New York, and 102 Franklin Pl., Flushing, L. I., N. Y.
- MORRISON, Clarke J. (1909), Pres., Ch. Engr., Meyer, Morrison & Co., Inc., 149 Broadway, New York, N. Y., and *for mail*, 191 N. Walnut St., East Orange, N. J.
- MORRISON, Egbert R. (Junior, 1906), Mgr., Morrison Boiler Co., Sharon, Pa., and *for mail*, 208 Am. Trust Bldg., Cleveland, O.
- MORRISON, Hunter (1903; Associate-Member, 1915), Sales Mgr., Hill Clutch Co., and 1801 E. 89th St., Cleveland, O.
- MORRISON, Max P. (1914), Head Draftsman, Am. Steel & Wire Co., and *for mail*, 296 Tyler St., Trenton, N. J.
- MORRISON, William (Junior, 1900), Pres., Charge of Sales, The Highland Body Mfg. Co., Elmwood Pl., Cincinnati, and *for mail*, 750 Ludlow Ave., Clifton, Cincinnati, O.
- MORRISON, William B. (1914), Asst. Genl. Mgr., McIntosh & Seymour Corp., and *for mail*, 2 Woodruff Pl., Auburn, N. Y.
- MORRISON, William S. (1914), Ch. Mech. Draftsman, The N. Y. Edison Co., Irving Pl. and 15th St., and 547 W. 142d St., New York, N. Y.

- MORRISSEY, Peter J. (1913), Genl. Mgr., Citizens Light, Heat & Power Co. of Pa., Johnstown, Pa.
- MORROW, Robert L. (Junior, 1913), Insp., Compensation Insp. Rating Bd., 135 William St., and *for mail*, 219 W. 70th St., New York, N. Y.
- MORSE, Arthur H. (1911), Supt., The Baldwin Co., Gilbert Ave., and *for mail*, 687 S. Crescent Ave., Cincinnati, O.
- MORSE, Chas. H., Jr. (1897; 1904), Pres., Fairbanks-Morse Mfg. Co., 900 S. Wabash Ave., and *for mail*, 1132 E. 49th St., Chicago, Ill.
- MORSE, Frank L. (1912), Treas., Mgr., Morse Chain Co., and 514 Edgewood Pl., Ithaca, N. Y.
- MORSE, Robert G. (Associate, 1913), Treas., Asst. Mgr., Rivett Lathe & Grinder Co., Boston, and *for mail*, 48 Lakeville Pl., Jamaica Plain, Mass.
- MORSE, Robert W. (Associate-Member, 1915), Asst. Examiner, U. S. Pat. Office, 312 U. S. Pat. Office, Asst. Prof. M. E., George Washington Univ., and *for mail*, 1669 Columbia Rd., N. W., Washington, D. C.
- MORSE, Walter R. (Associate-Member, 1916), Asst. Supt., The Shoe Hardware Co., Waterbury, Conn.
- MORSE, William A. (1903), Engrg. Dept., The Lamson Co., 100 Boylston St., Boston, and *for mail*, 4 Kahler St., Milton, Mass.
- MORSE, William H. (1901; 1903), Industrial Management, G. M. P. Murphy Co., 43 Exchange Pl., and *for mail*, 27 W. 44th St., New York, N. Y.
- MORSS, Everett (1914), Pres., Simplex Wire & Cable Co., 201 Devonshire St., Boston, Mass.
- MORSS, Henry A. (1915), V. P., Simplex Wire & Cable Co., V. P., The Mors & Whyte Co., 201 Devonshire St., Boston, Mass.
- MORTENSEN, Casper (Junior, 1899), Designer Mch. Tool Dept., Genl. Elec. Co., and *for mail*, 220 Broadway, Schenectady, N. Y.
- MORTON, Geo. L. (1890), Prin. Examiner, Instruments of Precision, 264, U. S. Pat. Office, and *for mail*, Flat 503, The Ontario, Washington, D. C.
- MORTON, Harold S. (Junior, 1914), Combustion Spec., Salesman, North West Fuel Co., St. Paul, and *for mail*, 3851 Lyndale Ave., N., Minneapolis, Minn.
- MORTON, Harry E. (1914), State Insp. Boilers, Commonwealth of Mass., 3 State House, Boston, and *for mail*, 8 Charles St., Hyde Park, Mass.
- MORTON, John W. (Junior, 1913), Designer, McIntosh & Seymour Corp., Auburn, N. Y.
- MOSELEY, Alexander W. (1900), Prof. M. E., Lewis Inst., Chicago, and *for mail*, Evanston, Ill.
- MOSES, Asheleigh S. (1914), Engr. Mfg. Com., Natl. Lead Co., 111 Broadway, New York, N. Y.
- MOSES, Lucius L. (1912), Cons. Engr., 929 Pine St., San Francisco, Cal.
- MOSHER, William E. (Junior, 1912), Horticultural and Pomological Investigations, U. S. Dept. of Agri., Washington, D. C.
- MOSMAN, Chas. T. (1909), Dist. Engr., Genl. Elec. Co., 84 State St., Boston, and Winchester, Mass.
- MOSS, Sanford A. (1903), Engr. Turbine Research Dept., Genl. Elec. Co., West Lynn, and 36 Sachem St., Lynn, Mass.
- MOSSBERG, Frank (1895), Pres., Genl. Mgr., Frank Mossberg Co., V. P., Cons. Engr., Stand. Mch. Co. of Providence, R. I., and *for mail*, 141 Pleasant St., Attleboro, Mass.
- MOTT, Abram C., Jr. (1907; 1913), First V. P., Genl. Mgr., Abram Cox Stove Co., American and Dauphin Sts., Philadelphia, and "The Woods," Box 71, Lansdale, Pa.
- MOTT, Chas. S. (1898; 1909), Pres., Weston Mott Co., Flint, Mich.

- MOULTON, Seth A. (1914), Cons. Engr., The Moulton Engrg. Corp., 120 Exchange St., and 31 Clifton St., Portland, Me.
- MOULTROP, Irving E. (1902), Manager, 1908-1911; Vice-President, 1912-1914; Asst. Supt. Constr. Bureau, Edison Elec. Ill. Co. of Boston, and *for mail*, 39 Boylston St., Boston; also, 75 Winchester St., Brookline, Mass.
- MOUNT, Carroll H. (Junior, 1910), M. E., The Jeffrey Mfg. Co., and *for mail*, 195 W. 11th Ave., Columbus, O.
- MOUNT, Wm. D. (1892; 1897), Genl. Mgr., Mathieson Alkali Wks., Saltville, Va.
- MOWERY, John N. (1906), M. E., Keystone Lubricating Co., 21st and Clearfield Sts., Philadelphia, Pa.
- MOXHAM, Egbert (1906; 1912), Genl. Mgr., Aetna Explosives Co., Inc., Rm. 1206, 2 Rector St., New York, and *for mail*, Hillside Ave. and Spring Lane, Douglaston, L. I., N. Y.
- MOY, Frank (Junior, 1915), First Asst. Insp., Bureau of Gas, Dept. of Pub. Wks., City Hall, Philadelphia, Pa.
- MOYER, Allen V. (1909; 1916), M. E., The George T. Ladd Co., 1620 Farmers Bank Bldg., and *for mail*, 4636 Center Ave., Pittsburgh, Pa.
- MOYER, Amos F. (Associate-Member, 1914), Genl. Mgr., Moyer Motor Engrs., 2324 University Ave., and *for mail*, 1624 La Fond St., St. Paul, Minn.
- MOYER, J. Ross (Junior, 1913), Genl. Supt. of Plant, Lewis-Hall Iron Wks., and *for mail*, 526 Preston Ave., Detroit, Mich.
- MOYER, James A. (1907), Dir. Extension Serv., Mass. Bd. of Education, State House, Boston, Mass., and Pa. Bldg., Philadelphia, Pa.
- MOYER, William J. (Associate-Member, 1913), Supt. of Constr., Moyer Engrg. & Constr. Co., 375 Fulton St., and 1809 Beverly Rd., Brooklyn, N. Y.
- MUCKLE, John S. (1904), M. E., Franklin Bank Bldg., and 2023 Walnut St., Philadelphia, Pa.
- MUCKLE, M. R., Jr. (1885), M. E., 229 S. Broad St., and 1722 Pine St., Philadelphia, Pa.
- MUDD, John P. (1910; Associate-Member, 1915), M. E., Midvale Steel Co., and *for mail*, 229 Zeralda St., Philadelphia, Pa.
- MUDGE, Sterling W. (Junior, 1914), Engr. Engrg. Dept., Arbuckle Bros., foot of Jay St., Brooklyn, and *for mail*, Glen Cove, L. I., N. Y.
- MUELLER, Charles (Junior, 1915), Draftsman, E. I. du Pont de Nemours & Co., 810 du Pont Bldg., and *for mail*, Y. M. C. A., Wilmington, Del.
- MUELLER, Herman F. (1913), Ch. Engr., Washburn Crosby Co., and *for mail*, 2018 Dupont Ave., N., Minneapolis, Minn.
- MUELLER, Jacob L. (Junior, 1915), Exper. Engr., Springfield Facing Co., 317 Main St., Springfield, Mass.
- MUELLER, Victor H. (Junior, 1907), Designing Engr., Doherty Operating Co., 60 Wall St., New York, and *for mail*, 25 Maple Terrace, East Orange, N. J.
- MUHLFELD, John E. (1908), Sherbrooke Rd., Scarsdale, N. Y.
- MUIR, John J. (1896), Mech. Supt., Bass Fdy. & Mch. Co., and *for mail*, 2221 Fairfield Ave., Fort Wayne, Ind.
- MULHERON, William (Junior, 1913), Engrg. Designer, S. I. Shipbuilding Co., Port Richmond, and *for mail*, 327 Oakland Ave., West New Brighton, S. I., N. Y.
- MULLANEY, John E. (Junior, 1915), Engr., Lewiston Bleachery & Dye Wks., and *for mail*, 78 Pierce St., Lewiston, Me.
- MULLANEY, John J. (1901), 50 Church St., New York, N. Y.
- MULLEN, John (1886), Genl. Mgr., John Mullen & Son, 516 N. Franklin St., and 129 S. Shamokin St., Shamokin, Pa.

- MULLER, Edward A. (1890), Secy., Mgr., The King Mch. Tool Co., Cincinnati, and *for mail*, 839 Mitchell Ave., Avondale, Cincinnati, O.
- MÜLLER, Frederick (Junior, 1913), Engr., Müller Mfg. Co., 1198 Franklin Ave., New York, N. Y.
- MULLER, Richard O. (1913), Malleable Iron Fitting Co., Branford, Conn.
- MÜLLHAUPT, Alfred, Jr. (Junior, 1911), M. E., Corliss Carbon Co., and *for mail*, Box 3, Bradford, Pa.
- MUNCASTER, Walter J. (1887), V. P., Genl. Mgr., Cumberland Steel Co., Cumberland, Md.
- MUNCY, Victor E. (1914), Prof. Mech. and Applied Elec., Sch. of Mech. and Elec., Ohio Mechanics Inst., Cincinnati, O.
- MUNN, D. Walter (1915), Asst. Engr., Montreal Rolling Mills Branch, Steel Co. of Canada, and *for mail*, Apt. 9, 107 Metcalfe St., Montreal, Que., Canada.
- MUNRO, George W. (1912), Asst. Prof. M. E., Purdue Univ., Lafayette, and *for mail*, 202 Waldron St., West Lafayette, Ind.
- MUNSON, Charles C. (Associate, 1913), 115 34th St., Woodcliffe-on-Hudson, N. J.
- MUNSON, Edmund G. (1908), Supt., Secy., Munson Bros. Co., Utica, N. Y.
- MUNSON, Stanley (Junior, 1911), Ch. Engr., Proctor & Gamble Co., Port Ivory, and *for mail*, 96 Albion Pl., Port Richmond, S. I., N. Y.
- MURPHY, Benjamin S. (Junior, 1905), Asst. Engr., Hudson & Manhattan R. R. Co., 30 Church St., New York, N. Y., and 17 Railroad Ave., and *for mail*, 254 Fourth St., Jersey City, N. J.
- MURPHY, Edward T. (Junior, 1905), Sales Engr., Carrier Air Conditioning Co., 732 Real Estate Trust Bldg., and 138 S. 50th St., Philadelphia, Pa.
- MURPHY, George F. (1914), Charge Sales Office, Heine Safety Boiler Co., Fulton Bldg., Pittsburgh, Pa.
- MURPHY, John H. (1912), Mfr., Contr. Engr., John H. Murphy Iron Wks., Magazine and Girod Sts., P. O. Box 1748, and 1322 Felicity St., New Orleans, La.
- MURPHY, John Z. (1899), Ch. Engr., Chicago Rys. Co., 105 S. La Salle St., and *for mail*, 3921 W. Jackson Blvd., Chicago, Ill.
- MURPHY, Ralph (Associate-Member, 1913), Ch. Engr., H. H. Franklin Mfg. Co., and *for mail*, 146 Greenwood Pl., Syracuse, N. Y.
- MURPHY, Thomas R. II. (1911; Associate-Member, 1916), Pulp and Paper Mill Engr., 222 E. 188th St., New York, N. Y.
- MURPHY, William T. (1911; 1912), Genl. Mgr., Stand. Mch. Co., Auburn, and 144 Wentworth Ave., Edgewood, R. I.
- MURRAY, Arthur F. (1908; Associate-Member, 1915), Equip. Engr., Blake & Knowles Steam Pump Wks., East Cambridge, Mass.
- MURRAY, Charles R. (Associate, 1889), V. P., Treas., Charge of Mfg., Barnhart Bros. & Spindler, Throop and Monroe Sts., Chicago, and 82 Elm St., Hinsdale, Ill.
- MURRAY, Geo. R. (1903), Pres., The Euclid Stone & Brick Co., 607-608 Electric Bldg., Cleveland, and *for mail*, 1869 Lee Rd., Cleveland Heights, O.
- MURRAY, Henry H. (1899; 1905), M. E., Victor Talking Mch. Co., Camden, and *for mail*, 713 Main St., Riverton, N. J.
- MURRAY, Thomas E. (1894), V. P., The N. Y. Edison Co., Irving Pl. and 15th St., New York, and 783 St. Marks Ave., Brooklyn, N. Y.
- MURRAY, Warren E. (1910), Ch. Engr., West. Sugar Refining Co., 23d and Louisiana Sts., San Francisco, and Spreckels Sugar Co., Spreckels, and Union League Club, San Francisco, Cal.

- MURRIE, John L. (Junior, 1905), The N. Y. Edison Co., Irving Pl. and 15th St., New York, N. Y.
- MUSCHENHEIM, Frederick A. (1915), V. P., Hotel Astor, New York, N. Y.
- MUTHER, Ellis F. (Associate, 1907), Genl. Sales Mgr., Gisholt Mch. Co., and *for mail*, 221 N. Few St., Madison, Wis.
- MUZZARELLI, G. Stuart (Junior, 1912), Contr. Engr., N. Y. Structural Co., 50 Church St., New York, N. Y.
- MYERS, Cornelius T. (1908; 1912), Engr., Timken-David Brown Co., 132 Clark Ave., Detroit, and Trenton, Wayne Co., Mich.
- MYERS, Curtis C. (Junior, 1905), Prof. in Charge of Coördination, Univ. of Cincinnati, and 3432 Lyleburn Pl., Cincinnati, O.
- MYERS, David M. (1907; 1912), Cons. Engr., Griggs & Myers, 110 W. 40th St., and 309 W. 70th St., New York, N. Y.
- MYERS, James L. (Junior, 1913), Salesman Spec. Dept., Barrett Mfg. Co., Philadelphia, Pa., and *for mail*, 840 N. Broad St., Elizabeth, N. J.
- MYERS, Walter S. (1910), Ch. Draftsman, Ladd & Baker, Philadelphia, and *for mail*, 19 N. Front St., Darby, Pa.
- NADLER, Harry A. (Junior, 1915), Asst. Ch. Engr., Guanica Centrale Sugar Co., Ensenada, P. R.
- NAEGELEY, John C. (1901), Engr., Arch., 73 Rochelle Ave., Wissahickon, Philadelphia, Pa.
- NAESS, Ragnvald (Junior, 1912), M. E., Engrg. Dept., Am. Trading Co., Manila, P. I.
- NAGLE, A. F. (1880), Ret., 22 S. High St., Bethlehem, Pa.
- NAGY, B. (1913), Maintenance Engr. Natl. Lamp Wks., Genl. Elec. Co., Nela Park, Cleveland, and *for mail*, 80 Wymore Ave., East Cleveland, O.
- NAILLER, Raymond F. (1911), 244 E. 9th St., Elyria, O.
- NAKAI, K. (1915), Ashio Copper Mines, Shimotsuke, Japan.
- NAPHITALY, Sam L. (1907), Pres., Oakland Antioch & East. Ry., 305 Hobart Bldg., and 1770 Pacific Ave., San Francisco, Cal.
- NASH, James E. (Associate-Member, 1915), Supt., Worcester Salt Co., Silver Springs, N. Y.
- NASH, Lewis H. (1891), Pres., Nash Engrg. Co., and 66 West St., South Norwalk, Conn.; also, Ch. Engr., Natl. Meter Co., 84 Chambers St., New York, N. Y.
- NATE, Emile H. (Junior, 1904), Pres., Treas., The Nate-Earle Co., Inc., 650 W. 44th St., New York, and *for mail*, 221 Flushing Ave., Hollis, L. I., N. Y.
- NATHAN, Alfred (Junior, 1891), Pres., Nathan Mfg. Co., 101 Park Ave., and 36 E. 72d St., New York, N. Y.
- NAYLOR, Chas. Wm. (1905), Ch. Engr., Marshall Field & Co., 121 N. State St., and *for mail*, 4429 Congress St., Chicago, Ill.
- NEAGLE, Russell J. (Junior, 1916), Edison Elec. Ill. Co. of Boston, 39 Boylston St., Boston, and *for mail*, 52 Bradshaw St., Medford, Mass.
- NEAL, John R. H. (1915), Ch. Engr., Root, Neal & Co., 178 Main St., and 685 Front Ave., Buffalo, N. Y.
- NEALE, William McC. (Junior, 1913), Ch. Draftsman, Am. Mch. & Mfg. Co., and 479 W. Washington St., Greenville, S. C.
- NEAVE, Andrew A. (1912), Genl. Mgr., Treadwell Engrg. Co., and Freemansburg Rd., R. F. D. 3, Easton, Pa.
- NEAVE, Pierson M. (Junior, 1903), Telephone Engr., West. Elec. Co., 463 West St., New York, N. Y., and 46 Highland Ave., Glen Ridge, N. J.
- NEDDEN, F. zur (1913), Cons. Engr., 283 St. Pauls Ave., Tompkinsville, S. I., N. Y.

- NEELAND, Marvin A. (1915), Asst. to V. P., U. S. Steel Corp., Rm. 1801, 71 Broadway, New York, N. Y.
- NEELY, Frank H. (1908; 1914), Industrial Engr., 70 Madison Ave., and 633 Piedmont Ave., Atlanta, Ga.
- NEELY, Fred L. (1909; 1914), E. I. du Pont de Nemours & Co., du Pont Bldg., Wilmington, Del.
- NEFF, Asa J. (1914), P. O. Box 127, and 142 Grape St., Abilene, Tex.
- NEFF, Elmer H. (1898), Life Member; N. Y. Mgr., Brown & Sharpe Mfg. Co., Rm. 900, 20 Vesey St., New York, N. Y.
- NEFF, John P. (1913), Ch. Engr., Asst. to Pres., Am. Arch Co., 30 Church St., New York, N. Y.
- NEHRBAS, Frederick P. (1912), Factory Mgr., Lyons-Atlas Co., and *for mail*, 2034 N. New Jersey St., Indianapolis, Ind.
- NEIDHARDT, J. Wm. (1910), Ch. Engr., Wks. Mgr., The Detrick & Harvey Mch. Co., and *for mail*, 1807 W. Baltimore St., Baltimore, Md.
- NEIL, Edmund B. (Junior, 1915), Asst. to Ch. Engr. Truck Dept., Pierce-Arrow Motor Car Co., and *for mail*, 131 Bedford Ave., Buffalo, N. Y.
- NEILAN, Robert H. (Junior, 1914), care of J. A. Mann, Michel, B. C., Canada.
- NEILER, Samuel G. (1907), Cons. M. and E. E., Pres., Neiler, Rich & Co., 1407-1411 Manhattan Bldg., Chicago, and Oak Park, Ill.
- NELSON, Frederick C. (Associate, 1908), P. O. Box 472, West Hartford, Conn.
- NELSON, William L. (1913), Genl. Mgr., Deutsche Norton Gesellschaft, m.b.H., Wesseling bez, Cologne, Germany.
- NELIS, Joseph J. (1914), Sales Rep., The Babcock & Wilcox Co., 404 Traction Bldg., Cincinnati, O.
- NELSON, Alfred C. (1914), Cons. and Contr. Engr., 418 Rockefeller Bldg., Cleveland, and 1270 Summit Ave., Lakewood, O.
- NELSON, Bernard S. (Junior, 1910), A. M. Lockett & Co., Ltd., 533 Baronne St., and 1926 N. Claiborne St., New Orleans, La.
- NELSON, Charles (1915), Ch. Engr., Supt. Steam Boiler and Fly Wheel Depts., Royal Indemnity Co., 84 William St., New York, N. Y.
- NELSON, Emil A. (1913), M. E., 104 Park View Ave., Detroit, Mich.
- NELSON, Eric H. (1909), Ch. Draftsman, Geo. F. Blake Mfg. Co., Cambridge, and *for mail*, 15 Montague St., Arlington Hgts., Mass.
- NELSON, Ernest B. (Junior, 1912), Chile Exploration Co., Chuquicamata, Chile, S. A.
- NELSON, James W. (1904; 1913), Mgr., Supt., Engr., Estate of Richard Dudgeon, 82 Broome St., New York, and 61 Livingston St., Brooklyn, N. Y.
- NELSON, John E. (Junior, 1916), Draftsman, De Laval Separator Co., and *for mail*, 18 Harrison St., Poughkeepsie, N. Y.
- NESBIT, Edwin (1907), Zinc Engr., Grasselli Chem. Co., and 2027 E. 77th St., Cleveland, O.
- NESBIT, Joseph N. G. (1911), Prof. Exper. Engrg., Ga. Sch. of Tech., Atlanta, Ga.
- NESDAHL, Eilert (Associate, 1913), Warren Webster & Co., and *for mail*, 311 N. 2d St., Camden, N. J.
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- PLANT, John W. (1911), The Yuba Constr. Co., 916 Insurance Exch. Bldg., San Francisco, and 24 Crystal Springs Rd., San Mateo, Cal.
- PLANTINGA, Pierre (Junior, 1894), Pres., Gas Mch. Co., 1900 Euclid Ave., and 1913 E. 73d St., Cleveland, O.
- PLATT, John (1889; 1890), Pres., John Platt & Co., 97 Cedar St., New York, N. Y., and Westfield, Union Co., N. J.
- PLATT, Wilber O. (1902), V. P., Supt., Jos. Reid Gas Eng. Co., Oil City, Pa.

- PLATTS, C. Arthur (Associate-Member, 1915), Salesman, Transportation Engr., The Kelly-Springfield Motor Truck Co., Cambridge, and *for mail*, 399 Salem St., Medford, Mass.
- PLEASANTON, F. Rodney (Junior, 1908), Mgr., Ames Plow Co., South Framingham, and *for mail*, 684 Commonwealth Ave., Newton Centre, Mass.
- PLUMB, Harold B. (1913), Wks. Mgr., Ia. Dairy Separator Co., and *for mail*, 505 Franklin St., Waterloo, Ia.
- PLUNKETT, Charles T. (1909), Pres., Secy., Berkshire Cotton Mfg. Co., and 8 Park St., Adams, Mass.
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- POND, Henry O. (1904; 1907), M. E., Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y., and Tenafly, N. J.
- POOK, Charles H. O. (1915), Asst. Mgr. of Wks., Canadian Westinghouse Co., Ltd., Hamilton, Ont., Canada.
- POOL, John F. (1914), Supt., An. Sugar Refining Co. of N. Y., Kent Ave. and S. 4th St., and *for mail*, 1361 Dean St., Brooklyn, N. Y.
- POOLE, Cecil P. (1909), Cons. Engr., P. O. Box 774, and 793 Piedmont Ave., Atlanta, Ga.
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- POPE, Clarence J. (Junior, 1914), Power Plant Engr. Engrg. Dept., The Arlington Co., Arlington, N. J.
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- POPE, Harold L. (1905; 1912), Ferro Mch. & Fdy. Co., E. 66th St. and Hubbard Ave., and 2034 E. 83d St., Cleveland, O.
- POPE, Joseph (Associate-Member, 1915), Engr., Stone & Webster Engrg. Corp., 147 Milk St., and 163 Newbury St., Boston, Mass.
- POPE, Samuel A. (Junior, 1915), Htg. and Vent. Contr., William A. Pope, 26 N. Jefferson St., Chicago, and *for mail*, 293 N. Keystone Ave., River Forest, Ill.
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- PORTER, Finley R. (1913), Pres., Finley Robertson Porter Co., Port Jefferson, L. I., N. Y.
- PORTER, George (1913), Cons. Engr., Box 327, and 108 Morgantown St., Uniontown, Fayette Co., Pa.
- PORTER, H. Hobart (1902), Sanderson & Porter, 52 William St., New York, and Lawrence, L. I., N. Y.
- PORTER, Holbrook F. J. (1880; 1884), Cons. Engr., 46 W. 24th St., and 15 E. 10th St., New York, N. Y.
- PORTER, Hollis P. (1910), Engrg. Salesman, A. M. Lockett & Co., Ltd., 533 Baronne St., New Orleans, La., and 1222 Kansas Ave., Topeka, Kan.
- PORTER, James B. (1914), E. E., Salesman, Genl. Elec. Co., Witherspoon Bldg., Philadelphia, Pa.
- PORTER, LaFayette L. (Junior, 1914), Mem. Exec. Staff, Stand. Oil Co. of N. Y., Karachi, India, and *for mail*, 101 Waverly Pl., New York, N. Y.
- PORTER, Will R. (1910; 1913), Mfg. Supt., S. S. White Dental Mfg. Co., and *for mail*, 5941 Amboy Rd., Prince Bay, S. I., N. Y.
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- POSEY, James (Junior, 1907), Cons. Engr., 925 Fidelity Bldg., and 4005 Liberty Heights Ave., Baltimore, Md.
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- POSSELT, Ejnar (1907; 1913), Cons. Engr., Posselt & Co., 511 Ideal Bldg., Denver, Colo.
- POTBURY, Alfred H. (1911), M. E. with Robert Dalziel, Jr., 218 First St., San Francisco, and 1530 La Loma Ave., Berkeley, Cal.
- POTTER, Andrey A. (1912), Dean Div. of Engrg., Prof. Steam and Gas Engrg., Kan. State Agri. College, and 1328 Fremont St., Manhattan, Kan.
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- POTTER, Wm. B. (1897), Engr. Ry. and Traction Dept., Genl. Elec. Co., and 9 Morris Ave., Schenectady, N. Y.
- POTTS, S. Warren (1909), Sperry Gyroscope Co., Manhattan Bridge Plaza, Brooklyn, and *for mail*, 356 Union Ave., Mt. Vernon, N. Y.
- POULTNEY, John L. (1908), Cons. and Contr. Engr., 1538 Land Title Bldg., Philadelphia, and *for mail*, Haverford, Pa.
- POUND, Joseph H. (Junior, 1915), Instr. M. E., Rice Inst., Houston, Tex.
- POWELL, Samuel W. (1880), M. E., Am. Radiator Co., and *for mail*, 679 Auburn Ave., Buffalo, N. Y.
- POWELL, E. Burnley (1904; 1912), M. E., Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass.
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- POWELL, Paul R. (Junior, 1916), Designer, Bartlett Hayward Co., Scott and McHenry Sts., and *for mail*, Stony Run Lane, Univ. Parkway, Baltimore, Md.
- POWELL, William H. (1908), Elec. Engr.-in-Charge, Allis-Chalmers Mfg. Co., and 2508 Grand Ave., Milwaukee, Wis.
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- PRATT, Charles R. (1896), Cons. Engr., 55 Liberty St., New York, N. Y., and *for mail*, 39 Gates Ave., Montclair, N. J.
- PRATT, Francis C. (1892; 1897), Asst. to Pres., Genl. Elec. Co., and 16 Washington Ave., Schenectady, N. Y.
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- PRENTICE, John (1913), Genl. Foreman, Wrot Steel Forge Dept., The Babcock & Wilcox Co., and 69 W. 3d St., Bayonne, N. J.
- PRESCOTT, Fred. M. (1901), Manager, 1905-1908; Pres., The Prescott Co., Menominee, Mich.
- PRESS, William J. (1914), M. E., Natl. Transcontinental Ry. of Canada, and *for mail*, 61 Robert St., Ottawa, Ont., Canada.
- PRESSINGER, Harry E. (1915), Deputy, Charge Boiler Inspec., Industrial Com. of Wis., 809 Mrs. Home Bldg., Milwaukee, Wis.
- PRESSINGER, W. P. (Associate, 1903), Mgr. Compressor and Eng. Dept., Chicago Pneu. Tool Co., 1010 Fisher Bldg., Chicago, and Moraine Hotel, Highland Park, Ill.
- PREST, Harold M. (Junior, 1915), Engrg. Dept., H. R. Worthington, Harrison, and *for mail*, 5 Mosswood Ave., Orange, N. J.
- PRESTES, Jose A. (1913), M. E., Rua da Saude No. 1, and *for mail*, Rua No. 1 Copacabana 14, Heme, Rio de Janeiro, Brazil, S. A.
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- PRICE, Henry M. (1912), M. E., The Lamson Co., 423 Colorado Bldg., Washington, D. C., and *for mail*, 1721 W. North Ave., Baltimore, Md.
- PRICE, Melvin (Associate, 1905), Asst. Prof. Mch. Design, Univ. of Rochester, and 467 Park Ave., Rochester, N. Y.

- PRICE, Norman I. (Junior, 1902), Price & Martyn, 68½ Pitt St., Sydney, N. S. W., Australia.
- PRICE, William T. (1910; Associate-Member, 1914), Oil Eng. Sales Mgr., De La Vergne Mch. Co., foot of E. 138th St., New York, and *for mail*, 129 Sickels Ave., New Rochelle, N. Y.
- PRIEBE, Ernest B. (Junior, 1916), Erecting Engr., Am. Engrg. Co., Sta. K, Philadelphia, Pa., and 18 Seven Pine Ave., North Cambridge, Mass.
- PRIMROSE, John (1907), Ch. Engr., Power Spec. Co., 111 Broadway, New York, N. Y.
- PRINCE, Walter F. (1905), Fdy. M. E., 1365 North Ave., Elizabeth, N. J.
- PRINDLE, Edwin J. (1910), Pat. Law, Prindle, Wright & Small, 111 Broadway, New York, N. Y. and 519 Park Ave., East Orange, N. J.
- PRINGLE, Nelson S. (Associate-Member, 1914), Mgr. Autocar Sales & Service Co., 418-420 Washington St., and *for mail*, 244 N. 6th St., Newark, N. J.
- PRIOR, Wilbur C. (Junior, 1913), Draftsman Accident and Liability Dept., Aetna Life Ins. Co., 650 Main St., and *for mail*, 483 Blue Hills Ave., Hartford, Conn.
- PROAL, Arthur B., Jr. (1905), Sales Engr., Robins Conveying Belt Co., 13 Park Row, New York, N. Y., and *for mail*, 30 Edgewood Ave., Nutley, N. J.
- PROCTOR, Alfred W. (1916), Cons. M. E., 30 Church St., New York, and *for mail*, 137 Lafayette Ave., Brooklyn, N. Y.
- PROCTOR, Redfield (1905; Associate, 1906), Asst. Genl. Supt., Vt. Marble Co., Proctor, Vt.
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- PROSSER, Thomas (Associate, 1893), Thomas Prosser & Son, 15 Gold St., New York, N. Y.
- PROUT, Henry B. (Junior, 1911), Salesman, Chesapeake & Ohio Coal Agency Co., 141 Milk St., Boston, and 61 Pleasant St., Brookline, Mass.
- PROUTT, Frederick G. (1915), Cons. Engr., 374 Randolph Bldg., and 708 Tah Ave., Memphis, Tenn.
- PRUSSING, Rudolph E. (1915), Engr., Whiting Fdy. Equip. Co., Harvey, and *for mail*, 13 E. Division St., Chicago, Ill.
- PRYOR, Frederick L. (1900; 1906), Prof. Exper. Engrg., Stevens Inst. of Tech. Hoboken, and 421 Fourth Ave., Newark, N. J.
- PRYOR, Robert W., Jr. (1907; 1913), Mem. of Firm, Koithan & Pryor, 39 Cortlandt St., New York, N. Y., and 199 Roseville Ave., Newark, N. J.
- PUGSLEY, Edwin (Junior, 1911), Winchester Repeating Arms Co., and *for mail*, 77 Everit St., New Haven, Conn.
- PULIS, Wm. E. (Junior, 1909), Industrial Engr., Westinghouse Elec. & Mfg. Co., East Pittsburgh, and *for mail*, 253 Maple Ave., Edgewood Park, Swissvale, Pa.
- PULMAN, Thomas C. (1908), Sales Mgr., Worthington Pump Co., Ltd., 153 Queen Victoria St., London, and 43 Birch Grove, Acton Hill, London, England.
- PULSIFER, Harold M. (1907), 1622, 431 S. Dearborn St., and 111 Bellevue Pl., Chicago, Ill.
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- PURDY, Henry T. (1909), Mgr., Purdy Engrg. Co., San Jose, Costa Rica, C. A.
- PURINTON, Arthur J. (1893), Genl. Supt., Atlantic City & Shore R.R. Co., Atlantic City, N. J.
- PURINTON, Jacob W. (Junior, 1913), M. E., H. P. Hood & Sons, 494 Rutherford Ave., Boston, Mass.

- PURVES, John B. (1915), M. E., Combined Locks Paper Co., Combined Locks, and *for mail*, 620 Lawe St., Appleton, Wis.
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- PUTNAM, Frederic W. (1914), Dir. Co-operative Industrial Course, Tech. High Sch., and 44 Waterman Ave., Providence, R. I.
- PUTNAM, J. Russell (1913), M. E., Waterbury Clock Co., and *for mail*, 64 Woodside Ave., Waterbury, Conn.
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- QUIGLEY, Wirt S. (1913), V. P., Quigley Furnace & Fdy. Co., 105 W. 40th St., New York, and 71 Orchard St., Hillcrest, Jamaica, N. Y.
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- REDLEIN, George L. (Associate-Member, 1913), Tenn. Coal, Iron & R. R. Co., Ensley, Ala.
- REED, Charles M. (Junior, 1915), Engrg. Observer, U. S. Naval Engrg. Exper. Sta., Annapolis, and *for mail*, 2308 Avalon Ave., Baltimore, Md.
- REED, Chester T. (Junior, 1906), Pur. Engr., Reed & Prince Mfg. Co., and *for mail*, 1215 Main St., Worcester, Mass.
- REED, Edgar H. (1905; 1913), Supt., Reed & Prince Mfg. Co., Duncan Ave., and *for mail*, Wildwood Ave., Worcester, Mass.
- REED, Fred M. (1906), M. E., Morse Twist Drill & Mch. Co., New Bedford, Mass.
- REED, Harry A. (Associate-Member, 1915), Res. Engr., Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass., and *for mail*, Box 138, Bridgeport, Conn.
- REED, Hudson W. (Associate, 1913), Management Engr., Day & Zimmermann, 611 Chestnut St., Philadelphia, Pa.

- REED, James, Jr. (1913), Naval Constr., U. S. N., Mare Island Navy Yard, Vallejo, Cal.
- REED, Van A., Jr. (1915), Treas., Federal Engrg. Co., 1116 House Bldg., Pittsburgh, Pa.
- REED, William E. (1898), 71 Broadway, and *for mail*, 175 W. 72d St., New York, N. Y.
- REEDER, Charles L. (1907), Cons. Engr., Park Ave. Bldg., and 39 W. Preston St., Baltimore, Md.
- REEDER, Nathaniel S., Jr. (1902; 1907), West. Steel Car & Fdy. Co., 1470 Old Colony Bldg., Chicago, Ill.
- REEDS, Clarence (Associate-Member, 1915), Cons. Engr., John A. Stevens, 8 Merrimack St., Lowell, Mass.
- REESE, Dale F. (Junior, 1907), Supt. Steam Boiler Dept., Ocean Accident & Guarantee Corp., Ltd., 59 John St., New York, N. Y., and *for mail*, 311 Belleville Ave., Newark, N. J.
- REEVE, Charles D. (1891), V. P., Factory Mgr., Grand Rapids Brass Co., 90 Scribner Ave., and 307 Auburn Ave., Grand Rapids, Mich.
- REEVE, Sidney A. (1901), Cons. Engr., 20 Central Ave., Tompkinsville, S. I., N. Y.
- REEVES, William H. (1913), Pres., Reeves & Skinner Mch. Co., and *for mail*, 4156 Cleveland Ave., St. Louis, Mo.
- REGAN, Joseph C. (1911), Asst. Genl. Supt., The Yale & Towne Mfg. Co., and 45 Hillcrest Ave., Stamford, Conn.
- REGAN, Ralph H. (Junior, 1911), 519 W. 66th St., Chicago, Ill.
- REID, Edward S. (Junior, 1896), Engr., No. Engrg. Wks., and 70 Pingree Ave., Detroit, Mich.
- REID, John S., Sr. (1898), Asst. Prof. Mech. and Mch. Drawing, Armour Inst. of Tech., and *for mail*, 6239 Greenwood Ave., Chicago, Ill.
- REID, Joseph (1904), Pres., Joseph Reid Gas Eng. Co., Main St., and 21 Orange St., Oil City, Pa.
- REID, Joseph S. (1911), Secy., Ch. Engr., Clark Bros. Co., and *for mail*, 202 Laurens St., Olean, N. Y.
- REID, Marcellus (1903), Mech. and Cons. Engr., 506 Caxton Bldg., and 1865 E. 86th St., N. E., Cleveland, O.
- REID, Robert C. (1907), Mgr. Truck Dept., Harrolds Motor Car Co., 233 W. 54th St., New York, N. Y., and *for mail*, Englewood, N. J.
- REID, Wm. L. (1903), Genl. Wks. Mgr., Am. Loco. Co., and 842 Union St., Schenectady, N. Y.
- REIFSNYDER, James D. (Associate, 1913), Ch. Draftsman, Stokes & Smith Co., Summerdale, Philadelphia, and *for mail*, 5505 Mascher St., Philadelphia, Pa.
- REILLY, Charles J. (Associate, 1912), M. M., Cristobal Marine Shops, Dry Dock, Cristobal, Canal Zone.
- REILLY, Wm. J. (1901), Dist. Sales Mgr., The Babcock & Wilcox Co., 435 17th St., and 1219 Milwaukee St., Denver, Colo.
- REIMER, Arthur A. (1912), Engr. Water Dept., City Hall, and *for mail*, 45 S. Maple Ave., East Orange, N. J.
- REINICKER, Norman G. (Junior, 1913), The N. Y. Edison Co., 15th St. and Irving Pl., New York, N. Y.
- REIST, H. G. (1889; 1893), Manager, 1909-1912; Vice-President, 1913-1915; M. E., Genl. Elec. Co., and *for mail*, 110 Avon Rd., Schenectady, N. Y.
- REITZ, Walter R. (Junior, 1914), Asst. to M. E., Burdett-Rowntree Mfg. Co., 515 Laflin St., and *for mail*, 4116 Park Ave., Chicago, Ill.
- RENNER, Roland B. (1906; Associate-Member, 1915), M. E., Jeffrey Mfg. Co., 50 Dey St., and *for mail*, 736 Riverside Drive, New York, N. Y.

- RENNIE, Walter M. (Junior, 1914), Inventory Foreman, Sanderson & Porter, 72 W. Adams St., and *for mail*, 2015 Lane Court, Chicago, Ill.
- RENO, Harold P. (Junior, 1907), Sayles' Bleacheries, and *for mail*, Orchard Ave., Saylesville, R. I.
- RENO, Jesse W. (1912), Cons. Engr., Otis Elev. Co., 11th Ave. and 26th St., New York, N. Y.
- RENOLD, Charles G. (Junior, 1906), Dir., Hans Renold, Ltd., Progress Wks., Manchester, and Catterick Hall, Fog Lane, Didsbury, Manchester, England.
- RENSHAW, Charles E. (Associate, 1915), Pres., Newman Clock Co., 178 Fulton St., New York, N. Y.
- RENTSCHLER, Gordon S. (Junior, 1911), V. P., Fdy. Mgr., The Hamilton Fdy. & Mch. Co., Hamilton, O.
- RENWICK, Edward B. (1914), Real Estate and Corp. Management, Pirsson & Renwick, 19 Park Pl., New York, N. Y., and Short Hills, N. J.
- REPATH, Charles H. (1891), Repath & McGregor, 1211 Hollingsworth Bldg., and 2708 Menlo Ave., Los Angeles, Cal.
- REPKO, John S., Jr. (Junior, 1915), Bosch Magneto Co., and *for mail*, 508 N. Main St., Springfield, Mass.
- REPLOGLE, Mark A. (1898), 26 Belvidere Way, Akron, O.
- REUNERT, Theodore (1901), Senior Partner, Reunert & Lenz, Box 92, Johannesburg, S. A., and care of Findlay, Durham & Brodie, 110 Cannon St., London, E. C., England.
- REUSCHLINE, George L. (1914), Supt. of Mfr., Am. Ice Co., 600 Arch St., and *for mail*, 811 Windsor Sq., Philadelphia, Pa.
- REUTER, Francis J. G. (Associate-Member, 1913), Production Supvr. Plant Dept., Winchester Repeating Arms Co., New Haven, and *for mail*, 59 Blake St., Westville, New Haven, Conn.
- REYNOLDS, Frank W. (1912), Mem. of Firm, Lockwood, Greene & Co., 60 Federal St., Boston, and 13 Everett Ave., Winchester, Mass.
- REYNOLDS, Herbert B. (Junior, 1912), Asst. Engr. M. P. Dept., I. R. T. Co., 600 W. 59th St., and 61 W. 71st St., New York, N. Y.
- REYNOLDS, Herman W. (1915), Prof. M. E., Cons. Engr., Univ. of Philippines, Manila, P. I.
- REYNOLDS, James J. (Junior, 1915), Genl. Supt., Thurlow Steel Wks., Inc., and 1107 Kerlin St., Chester, Pa.
- REYNOLDS, John P., Jr. (Junior, 1902), 519 Lincoln Pl., Brooklyn, N. Y.
- REYNOLDS, Philip E. (Junior, 1911), Alberger Pump & Cond. Co., 140 Cedar St., New York, N. Y., and *for mail*, Manasquan, N. J.
- REYNOLDS, Scott (Junior, 1912), Salesman, Engr., Latta-Martin Pump Co., Hickory, and *for mail*, Greensboro, N. C.
- RHOADS, George E. (Junior, 1906), Asst. Foreman, Loco. Test Plant, Pa. R. R., and *for mail*, 1320 20th Ave., Altoona, Pa.
- RHODES, George H. (Junior, 1913), Bishop & Co., Los Angeles, Cal.
- RICE, Alva C. (1890), Cons. Hyd. and M. E., 5 Oberlin St., Worcester, Mass.
- RICE, Arthur L. (1895; 1902), Managing Editor, The Practical Engr., Cons. on Power Plant Engrg., 537 S. Dearborn St., Chicago, Ill.
- RICE, Calvin W. (1900), Cons. Engr., Secretary, Am. Soc. M. E., 29 W. 39th St., New York, N. Y., and 241 N. Mountain Ave., Upper Montclair, N. J.
- RICE, Charles D. (1907), Genl. Supt., Underwood Typewriter Co., 581 Capitol Ave., and 1043 Prospect Ave., Hartford, Conn.
- RICE, Cyrus W. (1915), Steam and Genl. Testing Engr., Atlantic Refining Co., and 6724 Woodland Ave., Philadelphia, Pa.

- RICE, George W. (1906; 1912), Wks. Mgr., The Aultman & Taylor Mchy. Co., and *for mail*, 188 W. 1st St., Mansfield, O.
- RICE, Myron W. (Junior, 1911), Am. Engrg. Co., Cumberland St., Philadelphia, Pa., and 50 Houghton St., Worcester, Mass.
- RICE, Richard H. (1890), Manager, 1904-1907; Genl. Elec. Co., and 124 Ocean St., West Lynn, Mass.
- RICH, Edward P. (1911), V. P., Secy., Neiler, Rich & Co., 1409 Manhattan Bldg., and 4541 Woodlawn Ave., Chicago, Ill.
- RICHARDS, Charles B. (1880), Manager, 1880-1882; Vice-President, 1888-1890; Prof. Emeritus M. E., Yale Univ., and *for mail*, 227 Edwards St., New Haven, Conn.
- RICHARDS, Chas. D. (Junior, 1904), Asst. Engr. of Tests, Solvay Process Co., and *for mail*, 266 Meadowbrook Ave., Detroit, Mich.
- RICHARDS, Charles R. (1890), Dir., Cooper Union, and 175 Second Ave., New York, N. Y.
- RICHARDS, Chas. Russ (1892; 1901), Prof. M. E., Charge of Dept., Univ. of Ill., and 1103 W. Nevada St., Urbana, Ill.
- RICHARDS, Francis H. (1880), Life Member; M. E., Pat. Atty., 9-15 Murray St., New York, N. Y., and *for mail*, 112 Edwards St., Hartford, Conn.
- RICHARDS, Frank (1891), Managing Editor, Compressed Air Magazine, and Ingersoll-Rand Co., 11 Broadway, and *for mail*, 229 W. 135th St., New York, N. Y.
- RICHARDS, George M. (1912), Supt., Yarnall-Waring Co., Chestnut Hill, Philadelphia, and 4438 N. 15th St., Philadelphia, Pa.
- RICHARDS, Thomas G. (1912), Pres., Mgr., B. & R. Rubber Co., and *for mail*, Box A, North Brookfield, Mass.
- RICHARDS, Willard F. (1909), Mech. Supt., Gould Coupler Co., Depew, N. Y.
- RICHARDSON, Alfred S. (Associate, 1913), Supt. of Erection, Henry R. Kent & Co., 141 Broadway, New York, N. Y., and 161 School St., Lowell, Mass.
- RICHARDSON, Alton A. (1913), Asst. Engr., Castner Electrolytic Alkali Co., 24th St. and Buffalo Ave., and 526 Eleventh St., Niagara Falls, N. Y.
- RICHARDSON, Ammi C. (Junior, 1913), Engrg. Dept., Am. Thread Co., 549 Main St., and *for mail*, 177 Oak St., Holyoke, Mass.
- RICHARDSON, Charles F. (1915), Ch. M. E., Taft-Peirce Mfg. Co., and 169 Carrington Ave., Woonsocket, R. I.
- RICHARDSON, Charles G. (1911), Sales Engr. Meter Dept., Builders Iron Fdy., and *for mail*, 135 Adelaide Ave., Providence, R. I.
- RICHARDSON, Clifford T. (Associate-Member, 1914), Asst. Mgr. Constr. and Engrg. Dept., Swift & Co., 60 N. Market St., Boston, and *for mail*, 48 Boston St., Somerville, Mass.
- RICHARDSON, Edward B. (1910), Partner, Richardson & Hale, 85 Water St., Boston, and 7 Chatham St., Brookline, Mass.
- RICHARDSON, George E. (Associate, 1910), Lancaster, Mass.
- RICHARDSON, George P. (Junior, 1901), M. E., Engr. of Constr., Isbell-Porter Co., 46 Bridge St., Newark, and Wyoming, N. J.
- RICHARDSON, Levi S. (1909), Cons. Engr., Morgan Clark System Co., 382 Exchange St., and *for mail*, 283 Magnolia St., Rochester, N. Y.
- RICHARDSON, Maurice F. (1914), Operating Mgr., Arlington Co., and *for mail*, 1 Elizabeth Ave., Arlington, N. J.
- RICHARDSON, Thomas (1907), Ch. Draftsman, W. S. Barstow & Co., 50 Pine St., New York, N. Y., and *for mail*, 9 Concord St., South Norwalk, Conn.
- RICHMOND, Harold A. (Junior, 1898), Pres., Am. Emery Wheel Wks., 325 Waterman St., and *for mail*, 197 Bowen St., Providence, R. I.

- RICHMOND, Julian (1903; Associate, 1908), Asst. Engr., Bd. of Water Supply, Municipal Bldg., New York, and Dunwoodie Heights, Yonkers, N. Y.
- RICHMOND, Knight C. (1891; 1908), Cons. Engr., 526 Grosvenor Bldg., and 41 Cooke St., Providence, R. I.
- RICHON, J. L. (Junior, 1915), Betterment Dept., Robert Gair Co., Brooklyn, and *for mail*, 10 Hilldale Ave., Jamaica, N. Y.
- RICHTER, Arthur W. (Junior, 1892), Univ. of Mont., Missoula, Mont.
- RICHTER, Ernst (1890), M. E., The G. A. Gray Co., Cincinnati, and *for mail*, LaFayette Circle, Clifton, Cincinnati, O.
- RICKCORD, Reginald V. G. (Junior, 1913), Dept. of Pub. Instr., and *for mail*, 121 N. Fitzhugh St., Rochester, N. Y.
- RICKER, Wm. W. (1906), Treas., Secy., Guarantee Constr. Co., 140 Cedar St., and 65 Park Ave., New York, N. Y.
- RICKETTS, Edwin B. (1908; 1916), Engr. of Tests, The N. Y. Edison Co., 666 First Ave., and 1134 Findlay Ave., New York, N. Y.
- RICKETTS, Palmer C. (1892), Pres., Prof. Mech., Rensselaer Poly. Inst., Troy, N. Y.
- RICKEY, Walter J. (1903), The Singer Mfg. Co., Ltd., Singer, Clydebank, Scotland.
- RIDDELL, A. H. (1901), Machold & Riddell, 1020 Stephen Girard Bldg., Philadelphia, Pa., and Mountwell Ave., Haddonfield, N. J.
- RIDDELL, John (1895), Mech. Supt., Genl. Elec. Co., Schenectady Wks., and *for mail*, 1138 Duane Ave., Schenectady, N. Y.
- RIDDLE, Howard S. (1905), Cons. Engr., Ohio Bd. of Administration, Oak and 9th Sts., and *for mail*, 682 Linwood Ave., Columbus, O.
- RIDER, George S. (1900), Cons. Engr., Geo. S. Rider & Co., Century Bldg., and *for mail*, 9605 Lamont Ave., N. E., Cleveland, O.
- RIEDL, Albert F. (Associate-Member, 1916), Efficiency Engr., Geuder, Paeschke & Frey Co., St. Paul Ave. and 15th St., and *for mail*, 69½ 29th St., Milwaukee, Wis.
- RIEGE, Rudolph (1911), 114 W. 79th St., New York, N. Y.
- RIESENBERGER, Adam (1890), Registrar, Treas., Stevens Inst. of Tech., Hoboken, and 546 Union Pl., Town of Union, N. J.
- RIESNER, Michael (1914), Ch. Engr., Laidlaw-Dunn-Gordon Co., and *for mail*, 374 Terrace Ave., Cincinnati, O.
- RIGBY, Albert V. (Junior, 1913), M. M., Carnegie Steel Co., and *for mail*, 90 S. Oakland Ave., Sharon, Pa.
- RIGDON, Carl (Junior, 1907), Supt. Light and Power, Chattanooga Ry. & Light Co., 710 Market St., and 904 Bailey Ave., Chattanooga, Tenn.
- RIGGS, F. Stanley (Junior, 1913), Exper. Dept., The Goodyear Tire & Rubber Co., and *for mail*, 35 S. Union St., Akron, O.
- RIGGS, John D. (Junior, 1892), Indestructible Wheel Co., and *for mail*, 508 N. Meridian St., Lebanon, Ind.
- RIKER, Andrew L. (1897; 1899), Manager, 1906-1909; V. P., Locomobile Co. of Am., Bridgeport, and *for mail*, Fairfield, Conn.
- RILEY, Joseph C. (1909), Assoc. Prof. M. E., Mass. Inst. of Tech., Boston, and 77 Rockview St., Jamaica Plain, Mass.
- RILEY, Lewis A., 2d (1914), Mech. and Gas Engr., 52 Vanderbilt Ave., New York, and White Plains, N. Y.
- RILEY, R. Sanford (1906), Pres., Sanford Riley Stoker Co., Ltd., 314 Main St., and 228 West St., Worcester, Mass.
- RINK, George W. (1907), M. E., M. P. Dept., Central R. R. of N. J., Jersey City, and *for mail*, 15 Alden St., Cranford, N. J.

- RIPPEY, S. Howard (1904; 1905), Cons. Engr., 7012 Greene St., Germantown, Philadelphia, Pa.
- RIPPLE, Paul W. (Associate-Member, 1914), 271 Sherman Ave., New Haven, Conn.
- RIPSCH, Charles W. (Junior, 1908), Cons. M. E., 113 Hawthorn St., Dayton, O.
- RISTEEN, Allan D. (1912), Engr. Engrg. and Inspg. Div., Travelers Ins. Co. and Travelers Indemnity Co., Hartford, Conn.
- RITTENOUR, Frederick H. (1913), Draftsman Dept. of Marine Engrg. and Naval Constr., U. S. Naval Acad., and *for mail*, 16 Franklin St., Annapolis, Md.
- RITTER, Elmer R. (Junior, 1912), Asst. M. E., The Lunkenheimer Co., Box 876 Cincinnati, O.
- RITTER, Henry (1900), Supt., The Lunkenheimer Co., and 4208 Glenway Ave., Price Hill, Cincinnati, O.
- RIVETT, Edward (1904), Allerton, Mass.
- RIX, Edward A. (1896), Pres., Mgr., Rix Compressed Air & Drill Co., 219 Spear St., San Francisco, Cal.
- ROBB, A. G. (1902), Ch. Engr., Internatl. Engrg. Wks., Amherst, N. S., Canada.
- ROBB, Charles A. (Associate-Member, 1914), Asst. Prof. M. E., Res. Engr., Univ. of Alberta, and 10 University Campus, Edmonton South, Alberta, Canada.
- ROBB, D. W. (1888), Internatl. Engrg. Wks., Ltd., Amherst, N. S., Canada.
- ROBBINS, C. C. (Associate, 1904), Secy., Genl. Mgr., The Cleveland Crane & Engrg. Co., Wickliffe, O.
- ROBBINS, Harris A. (1915), Supt. of Power, Brooklyn R. T. System, 85 Clinton St., and 1960 82d St., Brooklyn, N. Y.
- ROBBINS, John L. (1908; Associate-Member, 1915), M. E., Robbins, Gamwell & Co., Pittsfield, Mass.
- ROBBINS, Newton A. (1915), Ch. Engr., M. M., Orono Pulp & Paper Co., Orono, Me.
- ROBBINS, Percy A. (Associate, 1901), Genl. Mgr., Canadian Min. & Finance Co., Timmins, Ont., Canada.
- ROBERT, Lawrence W., Jr. (Associate-Member, 1914), Mill Arch., Engr., Mem. of Firm, Park A. Dallis Co., 913 Candler Bldg., Atlanta, Ga.
- ROBERTS, A. L. (1909), Designing Engr., Crown Cork & Seal Co., and *for mail*, 1 E. 21st St., Baltimore, Md.
- ROBERTS, Arthur L. (1914), M. E., Lehigh Valley R. R., and *for mail*, 738 Seneca St., South Bethlehem, Pa.
- ROBERTS, Chapin (Junior, 1914), Safety Engr., Scars, Roebuck & Co., Chicago, Ill.
- ROBERTS, E. P. (1889), Cons. Engr., 2053 E. 96th St., Cleveland, O.
- ROBERTS, Edward F. (1913), Genl. Supt., Packard Motor Car Co., Detroit, Mich.
- ROBERTS, Eugene de Witt (1914), V. P., Puget Sound Iron & Steel Wks., and 220 S. Tacoma Ave., Tacoma, Wash.
- ROBERTS, George J. (1888), First V. P., Pub. Serv. Corp. of N. J., Pub. Serv. Corp. Bldg., Newark, N. J.
- ROBERTS, LeRoy C. (1914), Ill. Steel Co., South Chicago, and *for mail*, 6231 Rhodes Ave., Chicago, Ill.
- ROBERTS, Montague H. (Junior, 1912), Factory Mgr., M. E., Mead-Johnson Co., and *for mail*, 237 Wegman Pl., Jersey City, N. J.

- ROBERTS, Percival, Jr. (1888), Vice-President, 1893-1895; 717 Arcade Bldg., Philadelphia, and *for mail*, Narberth, Montgomery Co., Pa.
- ROBERTS, Richard F. (Associate-Member, 1915), 138 Center St., Nutley, N. J.
- ROBERTSON, Charles J. (1913), M. E., United Printers Mch. Co., 100 Summer St.; Boston, and *for mail*, 114 Winthrop St., Taunton, Mass.
- ROBERTSON, Elroy C. (Junior, 1915), Production Mgr., The Frantz Premier Co., Cleveland, O.
- ROBERTSON, John C., Jr. (Junior, 1913), Insp. Fireproof Bldgs., N. Y. Bd. of Fire Underwriters, New York, N. Y., and *for mail*, 36 S. Maple Ave., East Orange, N. J.
- ROBERTSON, Lawrence B. (1915), Supt. Coke Dept., Md. Steel Co., Box 88, Sparrows Point, Md.
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- ROBERTSON, Ralph N. (1913), Power Engr., Am. Smelting & Refining Co., Omaha, Neb., and 2935 Quitman St., Denver, Colo.
- ROBERTSON, Reuben B. (Associate, 1914), Genl. Mgr., Champion Fibre Co., Canton, N. C.
- ROBESON, Anthony M. (1895), "Beauvoir" St. Aubin, Jersey, Channel Islands.
- ROBINSON, A. W. (1883), Manager, 1896-1899; Life Member; Cons. M. E., 14 Phillips Sq., Montreal, Que., Canada.
- ROBINSON, Arthur L. (1908), Cons. Engr., The Barber Asphalt Paving Co., Land Title Bldg., Philadelphia, Pa.
- ROBINSON, Arthur S. (Junior, 1915), Hyatt Roller Bearing Co., Harrison, N. J.
- ROBINSON, C. Snelling (1900), Second V. P., Youngstown Sheet & Tube Co., and *for mail*, Old Furnace Rd., Youngstown, O.
- ROBINSON, Charles Griffith (1913), Engr., Wheeling Steel Casting Co., Wheeling, W. Va., and *for mail*, 5317 Ellsworth Ave., Pittsburgh, Pa.
- ROBINSON, Edward (1891; 1902), Prof. M. E., Univ. of Vt., and *for mail*, 25 Colchester Ave., Burlington, Vt.
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- ROBINSON, Frank H. (1903), Treas., Walter H. Foster Co., Rm. 1479, 50 Church St., New York, N. Y.
- ROBINSON, Garland P. (1902; 1909), Asst. Ch. Insp., Loco. Boilers, Interstate Commerce Com., and *for mail*, 2326 20th St., Washington, D. C.
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- ROBINSON, J. Albert M. (Junior, 1912), Hyd. Engr., The Am. Well Wks., 454 First Natl. Bank Bldg., and *for mail*, 6205 Ingleside Ave., Chicago, Ill.
- ROBINSON, James R. (1905), Pres., Robinson Ventilating Co., 8044-8045 Jenkins Arcade Bldg., Pittsburgh, and *for mail*, Mt. Lebanon, Allegheny Co., Pa.
- ROBINSON, Kenneth C. (Junior, 1914), Instr. M. E., Mass. Inst. of Tech., Boston, and 32 Lorraine St., West Roxbury, Mass.
- ROBINSON, Louis G. (1905; 1913), Louis G. Robinson Lab., Metallurgy and Ceramics, Harrison Bldg., Cincinnati, O., and *for mail*, 4th and Park Ave., Newport, Ky.
- ROBINSON, Parker M. (Junior, 1914), Yale Univ., Mason Lab., New Haven, Conn.
- ROBINSON, Rhea H. (1912; 1913), Economy Fuse Co., and *for mail*, 4155 N. Paulina St., Chicago, Ill.

- ROBINSON, Walter P. (Associate-Member, 1913), Sales Engr., No. Crane Wks., Ltd., The Elec. Controller & Mfg. Co., 923 Traders Bank Bldg., Toronto, Ont., Canada.
- ROBINSON, William (Associate-Member, 1915), M. M., Eberhard Faber Pencil Co., 39 Greenpoint Ave., Brooklyn, N. Y.
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- ROCKWELL, Sherburne B. (Junior, 1915), Asst. Supt., Internatl. Silver Co., P. O. Box 993, and 30 First Ave., Waterbury, Conn.
- ROCKWELL, Willard F. (Junior, 1913), Cons. Engr., Clinton H. Scovell & Co., 110 State St., Boston, and *for mail*, 18 Arundel St., Dorchester Center, Mass.
- ROCKWOOD, Geo. I. (1891), Manager, 1903-1906; Life Member; Cons. Engr., 38 Harlow St., and 340 May St., Worcester, Mass.
- ROCKWOOD, George O. (1911), Pres., The Rockwood Mfg. Co., P. O. Box 636, Indianapolis, Ind.
- RODGERS, Horace P. (Junior, 1912), M. E., 2099 E. 71st St., Cleveland, O.
- RODGERS, Myron K. (1904), Min. Engr., Sawtelle, R. F. D. 1, Box 92, Brentwood Park, Cal.
- ROE, Joseph W. (1902), Asst. Prof. Mch. Design, S. S. S., Yale Univ., 111 Winchester Hall, and 84 Trumbull St., New Haven, Conn.
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- ROE, Walter E. (1902), Ch. Engr., Dodge Mfg. Co., and 913 E. 2d St., Mishawaka, Ind.
- ROELKER, Carl J. (1909), Cons. Engr., State Bank Bldg., Richmond, Va.
- ROELKER, H. B. (1889), M. E., 41 Maiden Lane, and 43 W. 97th St., New York, N. Y.
- RÖESEN, Robert H. (Junior, 1915), M. E., Am. Mch. & Fdy. Co., 346 Carroll St., and *for mail*, 558 Decatur St., Brooklyn, N. Y.
- ROESLER, Dr. Rudolf (Junior, 1910), Pres., Concordia, Vega, Credit Petrolifer, Roumanian Enterprises of Deutsche Erdöl Actiengesellschaft, 10 Strada Lipscani, Bukarest, Roumania.
- ROESTI, Paul G. (1914), M. E., Genl. Delivery, St. Louis, Mo.
- ROGER, John P. (1914), Plant Engr., The Babcock & Wilcox Co., and *for mail*, 212 W. Park Ave., Barberton, O.
- ROGERS, Charles E. (Associate, 1898), Fraser & Chalmers, Ltd., 3 London Wall Bldgs., London, E. C., England.
- ROGERS, Charles M. (Junior, 1913), Efficiency Engr., Charge So. and East. Plants, Doherty Operating Co., 60 Wall St., New York, N. Y., and *for mail*, care of Meridian Light & Ry. Co., Meridian, Miss.
- ROGERS, Edwin A. (Junior, 1911), Pac. Gas & Elec. Co., 445 Sutter St., San Francisco, and *for mail*, Easton, San Mateo Co., Cal.
- ROGERS, Fred. E. (Associate, 1907), Editor, Mchy., 140-148 Lafayette St., New York, N. Y., and *for mail*, 6 Garfield Pl., East Orange, N. J.
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- ROSS, Frank E. (1913), Supt., Partner, Gilro Mch. Co., Oakland, Cal.
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- ROWLAND, Charles B. (1885; 1894), V. P., The Continental Iron Wks., Greenpoint, Brooklyn, N. Y.
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- RUBLE, Jos. S. (1913), The Samuel Austin & Son Co., 418 Newfield Bldg., Bridgeport, Conn.
- RUCKER, B. Parks (1909), Cons. Engr., Garrett Park, Md.
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- RUSHMORE, David B. (1897; 1903), Ch. Engr. Power and Min. Dept., Genl. Elec. Co., and 234 Union St., Schenectady, N. Y.

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- SAALFRANK, John M. (1915), M. E., DeLong Hook & Eye Co., Broad and Wallace Sts., and *for mail*, 5228 N. Front St., Philadelphia, Pa.
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- SCHELHAMMER, Hermann (1914), Asst. Factory Mgr., Bosch Magneto Co., and 133 Springfield St., Springfield, Mass.
- SHELL, Erwin H. (Junior, 1913), 238 Hemenway St., Boston, Mass.
- SCHENCK, Charles (1902; 1916), Wks. Mgr., Ch. Engr., Elev. Supply & Repair Co., 16th and Willow Ave., Hoboken, and 10 Euclid Ave., Maplewood, N. J.
- SCHERR, Frederick, Jr. (Associate, 1907), Ch. Engr., Fajardo Sugar Co., Fajardo, P. R.
- SCHEURMANN, Walter P. (1913), Genl. Mgr., The Hill-Tripp Pump Co., Anderson, Ind.

- SCHIEFER, Fred W. (Junior, 1911), Mgr., Prentiss Tool & Supply Co., and *for mail*, 43 Ericsson St., Rochester, N. Y.
- SCHIELDGE, George K. (Associate-Member, 1915), Supt., Taylor & Fenn Co., 54 Arch St., and *for mail*, 12 Irving St., Hartford, Conn.
- SCHILDHAUER, Edward (1911), 32 W. 40th St., New York, N. Y.
- SCHLACHTER, Carl H. (1906), Supt. Engr., Botany Worsted Mills, and *for mail*, 266 Harrison St., Passaic, N. J.
- SCHLACKS, W. J. (1909), McCord & Co., Peoples Gas Bldg., and 848 Ainslie St., Chicago, Ill.
- SCHLANK, Elias (Junior, 1915), Engr., The M. W. Kellogg Co., 90 West St., New York, N. Y., and *for mail*, 1162 Broad St., Newark, N. J.
- SCHLATTER, Rudolf (1910), Engr. Charge of Design, Busch-Sulzer Bros-Diesel Eng. Co., Second and Utah St., and 4116A Hartford St., St. Louis, Mo.
- SCHLESINGER, Alfred H. (1914), 926 Tenth St., College Point, L. I., N. Y.
- SCHLESINGER, Georg (1905), Prof. Engrg., Tech. Hochschule, Charlottenburg, 2, Berlinerstr. 171, Germany.
- SCHMALZ, Charles H. (1914), Mgr., Billings Fdy. & Mfg. Co., and *for mail*, 131 Lewis Ave., Billings, Mont.
- SCHMELTZER, J. Emile (Associate-Member, 1915), Asst. Ch. Draftsman Mch. Div., The Lake Torpedo Boat Co., and *for mail*, 81 Newfield Ave., Bridgeport, Conn.
- SCHMID, Albert (1890), Dir., Cons. Engr., Société Anonyme Westinghouse, and *for mail*, 6, Place Frédéric-Sauvage, Sainte-Adresse, Le Havre, France.
- SCHMIDT, Albert G. A. (1914), Pres., Engr., The Natl. Equip. Co., 938-940 W. Lake St., and 1464 Winnemac Ave., Chicago, Ill.
- SCHMIDT, Arthur A. (Associate-Member, 1914), Ch. M. E., West. Precipitation Co., 1016 W. 9th St., and 200 S. Rampart Blvd., Los Angeles, Cal.
- SCHMIDT, Charles R. (1895), 200 E. 24th St., Baltimore, Md.
- SCHMIDT, Edward C. (1908), Prof. Ry. Engrg., Univ. of Ill., and *for mail*, 903 W. California Ave., Urbana, Ill.
- SCHMIDT, Ferdinand L. (1912), Mch. Mfr., 150 Eleventh Ave., New York, N. Y.
- SCHMIDT, Francis W. (Junior, 1915), Wks. Engr's Dept., Union Metallic Cartridge Co., and *for mail*, 203 Golden Hill St., Bridgeport, Conn.
- SCHMIDT, George G. (Junior, 1913), Asst. Engr., Positive Differential System Co., 132 Nassau St., New York, N. Y.
- SCHMIDT, Wilhelm A. (1912), Ch. Tool Designer, Remington Typewriter Wks., and *for mail*, 21 Bellevue Ave., Ilion, N. Y.
- SCHMIEDEKNECHT, Victor E. (Associate-Member, 1914), Designer, Pneu. Jack Co., Paul Jones Bldg., and *for mail*, 1824 W. Jefferson St., Louisville, Ky.
- SCHMITT, Frederick E. (1915), Assoc. Editor, Engrg. News, 36th St. and 10th Ave., New York, N. Y., and *for mail*, 126 Lorraine Ave., Upper Montclair, N. J.
- SCHNEBLE, Rudolph G. (1897), Cons. M. E., 1627 E. 3d St., Dayton, O.
- SCHNEIDER, Louis J. (Junior, 1915), Sales Engr., Hyatt Roller Bearing Co., 756 Woodward Ave., Detroit, Mich., and 357 Westervelt Ave., Tompkinsville, S. I., N. Y.
- SCHNEIDER, Rudolph (1915), Designing Engr., Busch-Sulzer Bros-Diesel Eng. Co., and *for mail*, 4241a Hartford St., St. Louis, Mo.
- SCHNELLER, Geo. O. (Associate, 1905), Treas., Ansonia O. & C. Co., Ansonia, Conn.
- SCHNUCK, Edward F. (1897; 1901), Production Engr., Treas., Jabez Burns & Sons, 600 W. 43d St., New York, N. Y.

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- SCHOENBORN, W. E. (1891; 1913), Solicitor of Patents, Expt. in Pat. Causes, 908-912 G St., N. W., and 1359 Harvard St., Columbia Hgts., Washington, D. C.
- SCHOENIJAHN, Robert P. (1910; 1916), Cons. Engr., Church Bldg., and 5 Marlboro Apts., Wilmington, Del.
- SCHOENKY, Otto B. (1914), Supt. of Shops, So. Pacific Co., and *for mail*, 2716 21st St., Sacramento, Cal.
- SCHOEPE, Theodore H. (1913), Genl. Engr., Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.
- SCHOLEFIELD, Crighton W. (Junior, 1913), M. E. Pipe Line Dept., Stand. Oil Co., 200 Bush St., San Francisco, Cal.
- SCHOLL, Julian (1889; 1900), M. E., Mfr., Road-Making Mch., 126 Liberty St., New York, N. Y.
- SCHOOFF, Arthur W. (Associate-Member, 1914), Asst. Supt., Wells Bros. Co., and *for mail*, 81 High St., Greenfield, Mass.
- SCHOOFFIELD, Frank R. (1907), Ch. Draftsman, Ford, Bacon & Davis, New York, and *for mail*, 376 St. John's Pl., Brooklyn, N. Y.
- SCHOPFER, Frank H. (Junior, 1914), Designing, E. N. & R. E. Spaulding, Suffield, Conn.
- SCHOTT, Dr. Otto (1912), present address unknown.
- SCHRECK, H. (1915), Asst. Ch. Engr. Diesel Eng. Dept., Fulton Iron Wks., Delaware Ave., and *for mail*, 5759 Chamberlain Ave., St. Louis, Mo.
- SCHREIBER, Carl T. (1914), Publicity Engr., Hill Publishing Co., 10th Ave. and 36th St., New York, and *for mail*, 1033 Madison St., Brooklyn, N. Y.
- SCHREIBER, John W. (Associate-Member, 1914), M. E., Aluminum Co. of Am., 2402 Oliver Bldg., and *for mail*, 6320 Burchfield Ave., Pittsburgh, Pa.
- SCHUBART, Frank H. (Junior, 1915), Dist. Mgr., Wheeler Cond. & Engrg. Co., 1251 Pierce Bldg., St. Louis, Mo.
- SCHUBERT, Arno (Associate-Member, 1913), Ch. Draftsman, The New Britain Mch. Co., and *for mail*, Maple Hill, New Britain, Conn.
- SCHUCHART, Dr. Theodor (1913), Aschaffenburgstr. 18, Berlin W. 30, Germany.
- SCHUETZ, Frederick F. (Junior, 1903), Solicitor of Patents, M. E., 50 Church St., New York, N. Y., and 65 Hedden Terrace, Newark, N. J.
- SCHUHMANN, George (1884), V. P., Genl. Mgr., Reading Iron Co., and *for mail*, 1032 Penn St., Reading, Pa.
- SCHULTZ, John L. (1913), Mech. and Designing Engr., Am. Engrg. Co., Aramingo and Cumberland Sts., Philadelphia, Pa.
- SCHULZE-PILLOT, Gerhard (1903), Prof. M. E., Royal Tech. Univ., and 8 Taubenweg, Danzig-Langfuhr, Germany.
- SCHUMAKER, John S. (Associate, 1905), Ch. Engr., Mech. Supt., S. D. Warren & Co., and *for mail*, 153 Forest St., Cumberland Mills, Me.
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- SCHWAB, Gustav (Junior, 1912), P. O. Box 1497, Los Angeles, Cal.
- SCHWAMB, Peter (1884), Treas., Theodore Schwamb Co., 1171 Massachusetts Ave., and *for mail*, 33 Academy St., Arlington, Mass.
- SCHWANHAUSSER, William (1888), Ch. Engr., Internatl. Steam Pump Co., 115 Broadway, New York, and *for mail*, 387 Sterling Pl., Brooklyn, N. Y.
- SCHWARTZ, Carl (1906), First Asst. Engr., N. Y. C. & H. R. R. R. Co., 5048 Grand Central Term., New York, and 9 Siwanoy Ave., New Rochelle, N. Y.

- SCHWARTZ, Harry A. (1907; 1913), Asst. Supt., The Natl. Malleable Castings Co., and *for mail*, 542 Tibbs Ave., Indianapolis, Ind.
- SCHWARZ, Franz H. (Junior, 1888), M. E., Lower Pacific Mills, and *for mail*, 167 Ferry St., Lawrence, Mass.
- SCHWARZ, Michael (Associate-Member, 1915), Supt., Schoenthaler Mfg. Co., 1017 Chouteau Ave., and *for mail*, 2810 Eads Ave., St. Louis, Mo.
- SCHWEIER, Arthur (Junior, 1913), Asst. to Res. Engr., Tallassee Power Co., Whitney, N. C.
- SCHWENKER, Robert F. (Junior, 1914), Managing Editor, The Gas Engine Magazine, 224 E. 7th St., Cincinnati, and *for mail*, 3913 Regent Ave., Norwood, O.
- SCIPIO, Lynn A. (1912), Dean, Prof. M. E., Robert College, Constantinople, Turkey.
- SCOFIELD, Edward H. (1915), Engr. of Power, Twin City Rapid Transit Co., and *for mail*, 4623 Humbolt Ave., S., Minneapolis, Minn.
- SCOFIELD, Gilbert J. (Associate-Member, 1914), M. E., The Hilliard Clutch & Mchy Co., and *for mail*, 407 Hoffman St., Elmira, N. Y.
- SCOLLAN, John J. (1910), Genl. Supt., Canada Fdy. Co., Ltd., and 74 Roncesvalles Ave., Toronto, Ont., Canada.
- SCOTT, Dr. Arthur C. (1908), Cons. Engr., Pres., Scott Cons. Engrg. Co., 632 Wilson Bldg., and 1420 Sanger Ave., Dallas, Tex.
- SCOTT, Charles F. (1911), Prof. E. E., S. S. S., Yale Univ., and *for mail*, 19 Trumbull St., New Haven, Conn.
- SCOTT, Clarence N. (1902), V. P., Producers Oil Co., and 2117 Milam St., Houston, Tex.
- SCOTT, Earl F. (1904; 1906), Contr. M. E., 702 Candler Bldg., and 21 Baltimore Blk., Atlanta, Ga.
- SCOTT, Edgar G. (1913), Supt. of Power and Repair Shops, Ludlow Mfg. Associates, and *for mail*, P. O. Box 886, Ludlow, Mass.
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- SCOTT, George W. (Associate-Member, 1915), Engr. Charge Mech. Dept., Faultless Rubber Co., and *for mail*, 312 Center St., Ashland, O.
- SCOTT, Henry F. (1907), M. M., Dennison Mfg. Co., and 71 Union Ave., South Framingham, Mass.
- SCOTT, J. Alvah (1900), Supt., Seattle Constr. & Dry Dock Co., and *for mail*, 3940 Densmore Ave., Seattle, Wash.
- SCOTT, J. W. (1907), Supt., Arbuckle Bros., foot of Jay St., Brooklyn, N. Y., and Van Nostrand Ave., Englewood, N. J.
- SCOTT, James (1913), Honolulu Iron Wks. Co., Honolulu, Hawaii.
- SCOTT, James B. (1896; 1900), Cons. Engr., 745-751 Calvert Bldg., and 3422 Auchentoroly Terrace, Baltimore, Md.
- SCOTT, James K. (Junior, 1912), Draftsman, Loco. Superheater Co., New York, and *for mail*, 1629 43d St., Brooklyn, N. Y.
- SCOTT, Richard H. (1913), V. P., Reo Motor Car Co., Lansing, Mich.
- SCOTT, Seaton M. (1896; 1897), Constr. Engr., Edison Lab., West Orange, N. J., and *for mail*, 55 Hawthorne St., Brooklyn, N. Y.
- SCOTT, Thomas W. (Junior, 1915), Draftsman, Flannery Bolt Co., Bridgeville, and 501 Beechwood Ave., Carnegie, Pa.
- SCOTT, W. Doke (Associate-Member, 1915), Engrg. Asst., Syracuse Ltg. Co., Syracuse, N. Y.
- SCOTT, Walter G. (Junior, 1909), 3606 Prospect Ave., Cleveland, O.

- SCOVELL, Clinton H. (Associate, 1916), Industrial Engr., Clinton H. Scovell & Co., 110 State St., Boston, and *for mail*, 119 Grasmere St., Newton, Mass.
- SCRANNAGE, Lawrence E. (Junior, 1915), Remington Arms & Ammunition Co., and *for mail*, 1062 Fairfield Ave., Bridgeport, Conn.
- SCRIBNER, Charles W. (1889), M. E., Park Ave., Plainfield, N. J.
- SCRIVEN, Albert K. (Junior, 1915), Shop Foreman, Easton Mch. Co., and *for mail*, Box 75, South Easton, Mass.
- SCRIVENOR, Arthur (1901), Cons. and Constr. Engr., Scrivenor & Sullivan, Power Bldg., and 1002 West Ave., Richmond, Va.
- SCRUGHAM, James G. (1914), Prof. M. E., Dean Engrg. College, Univ. of Nev., Reno, Nev.
- SCUDDER, Hewlett, Jr. (Junior, 1899), Pat. Dept., Genl. Elec. Co., Schenectady, N. Y.
- SEABURY, Dwight (1906), Arch., Engr., 12 East Ave., Pawtucket, and 72 Moore St., Providence, R. I.
- SEAGER, James B. (1908), Genl. Mgr., Seager Eng. Wks., Lansing, Mich.
- SEAMAN, Edwin H. (Junior, 1908), Ins. Engr., Underwriters at Am. Lloyds, 123 William St., New York, and *for mail*, Lock Box 6, Wantagh, Nassau Co., N. Y.
- SEAMAN, Henry B. (1896), Life Member; Cons. Engr., Woolworth Bldg., New York, and 30 Sidney Pl., Brooklyn, N. Y.
- SEARBY, William (1915), Supt. Mills and Mfr., Hawaiian Commercial & Sugar Co., Puunene, Maui, Hawaii.
- SEARCH, Charles E. (1906), Genl. Mgr. of Wks., Allis-Chalmers Mfg. Co., West Allis, and *for mail*, 529 Walker St., Milwaukee, Wis.
- SEARLE, Wilbur C. (Junior, 1909), Foreman Miscellaneous Dept., Norton Grinding Co., and *for mail*, 578 Pleasant St., Worcester, Mass.
- SEARS, Harold R. (Junior, 1914), 628 S. West St., Kalamazoo, Mich.
- SEARS, Willard T. (1889; 1904), care of F. B. Cole, 196 Parkway, Winchester, Mass.
- SEATON, Roy A. (1913; Associate-Member, 1915), Prof. Applied Mech. and Mch. Design, Kan. State Agri. College, Manhattan, Kan.
- SEAVER, Kenneth (1914), Ch. Engr., Asst. Genl. Sales Mgr., Harbison-Walker Refractories Co., Farmers Bank Bldg., Pittsburgh, Pa.
- SEAWELL, Bert W. (1907; 1912), 186 State St., Brooklyn, N. Y.
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- SEDGWICK, E. H. (Junior, 1899), Pur. Agt., Brighton Mills, and *for mail*, 122 Franklin Ave., Passaic, N. J.
- SEDGWICK, Edw. V. (1907), Galena-Signal Oil Co., 17 Battery Pl., New York, N. Y.
- SEE, Alonzo B. (1909), A. B. See Elec. Elev. Co., 220 Broadway, New York, and 7 Monroe Pl., Brooklyn, N. Y.
- SEE, James W. (1880), M. E., Rentschler Bldg., Hamilton, O.
- SEED, Charles R. (Associate-Member, 1914), Supt. of Power, Worcester Elec. Light Co., 375 Main St., and *for mail*, 59 Webster St.; also, 19 Baker St., Worcester, Mass.
- SEEKAMP, Conrad F. (Associate-Member, 1914), Exper. Work, Otis Elev. Co., 26th St. and 11th Ave., and *for mail*, 407 Central Park W., New York, N. Y.
- SEEM, Charles B. (Junior, 1911), Designing Draftsman Eng. Dept., Bethlehem Steel Co., South Bethlehem, and *for mail*, 32 N. Franklin St., Allentown, Pa.

- SEGALOWITZ, Oscar (Junior, 1915), M. E., Am. Paper Goods Co., Kensington, Conn.
- SEIB, George A. (1914), Mech. Supt., Remington Typewriter Wks., and *for mail*, 205 Otsego St., Ithaca, N. Y.
- SEIDEL, Victor B. (Associate-Member, 1914), Sales Engr., Ingersoll-Rand Co. of N. Y., Cuba 64, and *for mail*, Apartado 1149, Havana, Cuba.
- SEIGLE, William R. (1914), Genl. Factory Mgr., H. W. Johns-Manville Co., Madison Ave. and 41st St., New York, N. Y.
- SELFRIEDGE, Samuel W. (Junior, 1914), Garfield Smelting Co., Garfield, Utah.
- SELIGMAN, Walter (Junior, 1913), Power Plant Wk., 1 William St., New York, N. Y.
- SELLERS, Coleman, Jr. (1882), Manager, 1890-1893; Pres., Engr., Wm. Sellers & Co., Inc., 1600 Hamilton St., Philadelphia, Pa.
- SELLEW, Welles H. (Junior, 1913), Otis Elev. Co., 26th St. and 11th Ave., New York, N. Y., and *for mail*, Portland, Conn.
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- SELLMAN, Nils T. (Junior, 1914), Asst. to Engr. of Utilization, Consld. Gas Co. of N. Y., 130 E. 15th St., and *for mail*, 83 W. 115th St., New York, N. Y.
- SELSER, Thomas W. (1911; Associate-Member, 1914), M. E., Interstate Commerce Com. of U. S. Gov., 721 Wells Fargo Bldg., San Francisco, Cal.
- SENGSTAKEN, J. H. (Junior, 1915), 497 Decatur St., Brooklyn, N. Y.
- SERBELL, Carl V. (Junior, 1913), M. E., Portsmouth Cotton Oil Refining Corp., P. O. Drawer 740, and 222 Cooke St., Portsmouth, Va.
- SERRANO, Luis R. (Junior, 1913), Mech. Draftsman, Chile Exploration Co., Chnquicamata, Chile, and Jerman Riesco 1989, Santiago, Chile, S. A.
- SERRELL, John A. (1895), 71 Murray St., New York, N. Y., and 81 Myrtle Ave., Plainfield, N. J.
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- SESSIONS, Frank L. (1910), Cons. E. and M. E., Pat. Expt., The Rockefeller Bldg., and *for mail*, 1423 Cohasset Ave., Cleveland, O.
- SETZ, Hans R. (1912), Ch. Engr., Fulton Iron Wks., St. Louis, Mo.
- SEUBERT, Arthur (Junior, 1913), Wallace & Tiernan Co., Inc., 136 Liberty St., New York, and *for mail*, 500 Hart St., Brooklyn, N. Y.
- SEWARD, Herbert L. (1912; Associate-Member, 1914), Instr. M. E., S. S. S., Yale Univ., and *for mail*, 966 Townsend Ave., New Haven, Conn.
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- SEYMOUR, Dudley S. (1905), Supt., Union Spec. Mch. Co., 300 W. Kinzie St., Chicago, and *for mail*, 228 N. Elmwood Ave., Oak Park, Ill.
- SEYMOUR, James A. (1892), V. P., Ch. Engr., McIntosh & Sevmour Corp., 91 Orchard St., and *for mail*, 64 South St., Auburn, N. Y.
- SEYMOUR, Joseph W. (Junior, 1891), Boston Mgr., The C. & G. Cooper Co., 201 Devonshire St., Boston, Mass., and *for mail*, 29 Arnold Ave., Edgewood, R. I.
- SEYMOUR, Niles E. (Junior, 1912), Instr. Mech. Drawing, East Tech. H. S., and 1411 E. 111th St., Cleveland, O.
- SEYMOUR, Ralph C. (1914), Mgr., M. E., Rotary Magazine Press Dept., Goss Ptg. Press Co., 1 Madison Ave., New York, and Larchmont Manor, N. Y.
- SHAAD, George C. (1914), Prof. E. E., Univ. of Kan., Lawrence, Kan.
- SHADALL, Charles E. (1912), M. E., Designer, Nordberg Mfg. Co., and *for mail*, 468 Idaho St., Milwaukee, Wis.

- SHAFTER, Ruland R. (Junior, 1912), 1240 Simpson St., New York, N. Y.
- SHALLCROSS, Watson C. (1910), Mgr. Caustic Soda Dept., Solvay Process Co., and 143 Virginia Park, Detroit, Mich.
- SHANDLEY, James G. (Junior, 1914), Draftsman, Interboro R. R., 59th St. and 11th Ave., New York, and for mail, 24 Amherst St., Manhattan Beach Estate, L. I., N. Y.
- SHANKLAND, E. C. (1895), C. E., E. C. & R. M. Shankland, 1106 Rookery Bldg., and 4808 Champlain Ave., Chicago, Ill.
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- SHARPE, Lucian (Associate, 1902), Providence, R. I.
- SHATTUCK, Charles H. (Junior, 1914), Engr., C. F. Braun & Co., 503 Market St., San Francisco, Cal.
- SHAW, Arthur D. (Associate, 1905), 611 W. Upsal St., Germantown, Philadelphia, Pa.
- SHAW, E. C. (1890; 1892), Second V. P., Wks. Mgr., The B. F. Goodrich Co., and N. Portage Path, Akron, O.
- SHAW, James C. (1909), Turbine Engr., The Wm. Cramp Ship & Eng. Bldg. Co., and 6600 N. 13th St., Philadelphia, Pa.
- SHAW, James G. (1913), Ch. Inspr., The Travelers Ins. Co., The Travelers Indemnity Co., 30-42 E. 42d St., New York, and for mail, 351 Fourth St., Brooklyn, N. Y.
- SHAW, James W. (1914), Allis-Chalmers Mfg. Co., Milwaukee, Wis.
- SHAW, Joseph D. (1910), Asst. Engr., Tex. Power & Light Co., and 1308 Berkley Ave., Dallas, Tex.
- SHAW, Joseph H. (Junior, 1914), M. E., Am. Vulcanized Fibre Co., Wilmington, and for mail, R. F. D. 1, Edgemoor, Del.
- SHAW, Louis E. (1913), Dir. Mech. and Elec. Depts., Engrg. Serv. Labs., and 179 N. Parkway, East Orange, N. J.
- SHAW, Samuel (Associate, 1913), Supt. of Constr., Westinghouse Church Kerr & Co., 37 Wall St., New York, N. Y.
- SHAW, William F. (1913), Ch. Engr., Genl. Mgr., Am. Rio Grande Land & Irrigation Co., Mercedes, Tex.
- SHAW, W. Miller (1915), V. P., Genl. Mgr., Benjamin F. Shaw Co., Wilmington, Del.
- SHEARER, Christopher A. (Junior, 1910), Nationale Radiator Gesellschaft, Schoenebeck-Elbe, Germany.
- SHEDD, Frank E. (1906), V. P., Ch. Engr., Lockwood, Greene & Co., 60 Federal St., Boston, Mass.
- SHEDD, Thomas C. (Junior, 1914), Draftsman, Phoenix Bridge Co., and for mail, 413 Gay St., Phoenixville, Pa.
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- SHENBERGER, Geo. H. (Junior, 1909), Goulds Mfg. Co., and *for mail*, 197 Fall St., Seneca Falls, N. Y.
- SHEPARD, Frank E. (1899; 1902), Pres., M. E., Denver Engrg. Wks., P. O. Box 1802, and 924 Washington St., Denver, Colo.
- SHEPARD, George H. (1903), Efficiency Engr., 414 Delaware Ave., Buffalo, N. Y.
- SHEPARD, George R. (1914), M. E., Hyd. Power Co. of Niagara Falls and Cliff Elec. Distributing Co., and 609 Jefferson Ave., Niagara Falls, N. Y.
- SHEPARD, Harold O. (Junior, 1914), Quigley Furnace & Fdy. Co., 105 W. 40th St., New York, N. Y., and *for mail*, 254 N. Main St., Springfield, Mass.
- SHEPARD, James A. (1914), Secy., Ch. Engr., Shepard Elec. Crane & Hoist Co., Montour Falls, N. Y.
- SHEPARD, Louis A. (1903), 2050 Grand Central Term., New York, N. Y.
- SHEPERDSON, John W. (1908; 1911), Morgan Constr. Co., 21 Lincoln St., Worcester, Mass.
- SHEPHERD, Wm. G. (1890; 1904), Genl. Mgr., Shepherd Engrg. Co., and *for mail*, Sherman Rd., Williamsport, Pa.
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- SHERIDAN, Richard B. (1909), Genl. Mgr., The Brown Hoisting Mch. Co., and 1893 E. 82d St., Cleveland, O.
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- SHILLAND, Finley H. (Junior, 1914), Engr., Chester Paper Co., Front and Market Sts., Chester, and *for mail*, 11 Princeton Ave., Swarthmore, Pa.
- SHIMMIN, Robert P. (1914), Salesman, Link-Belt Co., 39th St. and Stewart Ave., Chicago, and *for mail*, 2316 Remington Ave., Morgan Park, Ill.
- SHIPLEY, Albert R. (Associate, 1912), Industrial Engr., Seth Thomas Clock Co., Thomaston, and *for mail*, Plymouth, Conn.
- SHIPLEY, Grant B. (Associate, 1907), Pres., Genl. Mgr., Pittsburgh Wood Preserving Co., and Pittsburgh Athletic Asso., Pittsburgh, Pa.
- SHIPLEY, S. Carl (1913), Asst. Prof. Mch. Constr., Supt. of Shops, Univ. of Minn., and *for mail*, 1517 E. River Rd., Minneapolis, Minn.
- SHIPLEY, Thos. (1891), V. P., Genl. Mgr., York Mfg. Co., and Linden and W. York Aves., York, Pa.
- SHIREY, William H. (Junior, 1916), Draftsman, Smith, Hinchman & Grylls, 710 Washington Arcade, and *for mail*, 120 Henry St., Detroit, Mich.

- SHIRLEY, John G. (Junior, 1914), Gilbert & Barker Mfg. Co., West Springfield, and *for mail*, 37 Dresden St., Springfield, Mass.
- SHIRLEY, Loyd E. (1912), Supt., The C. S. Bell Co., Hillsboro, O.
- SHIRLEY, Robert (1906), Wks. Mgr., Chapman Valve Mfg. Co., Indian Orchard, and *for mail*, 37 Dresden St., Springfield, Mass.
- SHIRRELL, David (1890), Am. Loco. Co., and *for mail*, 852 Union St., Schenectady, N. Y.
- SHODRON, John G. (Junior, 1908), Cons. Engr., Arch., James Mfg. Co., and *for mail*, 206 S. High St., Fort Atkinson, Wis.
- SHOEBRIDGE, Fred H. (Junior, 1913), 3125 Fremont Ave., S., Minneapolis, Minn.
- SHOOP, Charles F. (1914), Asst. Prof. Exper. Engrg., Univ. of Minn., Minneapolis, Minn.
- SHORT, Stanley (Associate-Member, 1915), Asst. to Mgr. Mercer Wks., Am. Sheet & Tin Plate Co., Farrell, Pa.
- SHOUVLIN, Patrick J. (1909), Prop., Superior Gas Eng. Co., and 1134 E. Heigh St., Springfield, O.
- SHRIVER, Harry T. (Junior, 1893), Prop., T. Shriver & Co., Harrison, and *for mail*, Llewellyn Park, West Orange, N. J.
- SHULER, Harvey A. (Junior, 1913), Dist. Mgr., Kinnear Mfg. Co., 709 Ford Bldg., Detroit, Mich.
- SHULTS, Leo J. (Junior, 1913), M. E., McCormick Wks., Internatl. Harvester Co., Blue Island and Western Aves., and *for mail*, 4448 Washington Blvd., Chicago, Ill.
- SIBLEY, Frederick H. (1908), M. E., Univ. of Kan., Lawrence, Kan.
- SIBLEY, Mark M. (1904; Associate, 1904), M. E., Wilt Twist Drill Co., Walkerville, Ont., Canada, and *for mail*, 410 Jefferson Ave., Detroit, Mich.
- SIBLEY, Robert (1912), Prof. M. E., Univ. of Cal., and *for mail*, 2629 Le Conte Ave., Berkeley, Cal.
- SIBSON, Horace E. (Junior, 1904), M. E., Harrison Safety Boiler Wks., 17th St. and Allegheny Ave., Philadelphia, and *for mail*, P. O. Box 159, Cynwyd, Pa.
- SICKA, Louis T. (1912), Mech. Supt., Engr., St. Joseph Lead Co., and P. O. Box 618, Bonne Terre, Mo.
- SICKLES, Eugene C. (1896; 1904), Wks. Engr., Hyatt Roller Bearing Co., Harrison, N. J., and 1417 74th St., Brooklyn, N. Y.
- SIDNEY, Philip (1914), The Singer Mfg. Co., Elizabeth, and *for mail*, 504 Belvidere Ave., Plainfield, N. J.
- SIEBERT, Frank T. (1914), Dist. Insp. Loco. Boilers, Interstate Commerce Com., 304 Custom House, Nashville, Tenn.
- SIEGEL, Fred J. (Junior, 1912), Guarantee Constr. Co., 90 West St., and *for mail*, 881 Stebbins Ave., New York, N. Y.
- SIEVERS, Ernest J. J. (Junior, 1910), Engr., Draftsman, Pub. Serv. Elec. Co., Palisade Ave. and Ferry St., Jersey City, and *for mail*, 65 Willow Ave., Hoboken, N. J.
- SIGNAROWITZ, Ferdinand J. (1915), Designing Engr., Cameron Steam Pump Wks., and *for mail*, 25 Bennett St., Phillipsburg, N. J.
- SILVA, Antonio P. (1912), Genl. Foreman Mch. Shop, Central Ry. of Brazil, Oficinas do Norte E. F. C. B., Sao Paulo, Brazil, S. A.
- SIMEON, Charles J. (1913), Wks. Mgr., Reed-Prentice Co., Worcester, Mass.
- SIMMONS, Harry M. (Junior, 1914), Exper. Engr., 84 N. Pearl St., and 817 Madison Ave., Albany, N. Y.
- SIMMONS, Herman R. (1914), Mech. Supt., Lorraine Mfg. Co., and 111 Mulberry St., Pawtucket, R. I.

- SIMON, Arthur (1912), E. E., Cutler-Hammer Mfg. Co., and 3021 McKinley Blvd., Milwaukee, Wis.
- SIMON, Cecil S. (Junior, 1915), Machinist Drum Power Plant, Pac. Gas & Elec. Co., Drum, Placer Co., Cal.
- SIMONSON, G. Metcalfe (Junior, 1914), Elec. Draftsman, Cal. State Dept. of Engrg., State Capitol, Sacramento, and *for mail*, 1524 Alameda Ave., Alameda, Cal.
- SIMPKINSON, Garrett W. (1912), Mem. of Firm, Bert L. Baldwin & Co., 73 Perin Bldg., Cincinnati, and Blue Ash, O.
- SIMPSON, Colin C., Jr. (Junior, 1912), Genl. Supt. Mains, Consltd. Gas Co. of N. Y., 130 E. 15th St., New York, and Great Neck, L. I., N. Y.
- SIMPSON, Geo. R. (1889; 1897), Prin. Examiner Charge Ry. and Rolling Stock Div., 304 U. S. Pat. Office, and Lincoln Apts., Washington, D. C.
- SIMPSON, George T. (1914), Cons. Engr., 602 Hubbell Bldg., and *for mail*, 635 Polk Blvd., Des Moines, Ia.
- SIMPSON, Robert J. O. (1906), Supt., M. E., L. S. Starrett & Co., and *for mail*, 129 Union St., Athol, Mass.
- SIMPSON, Roswell H. (Associate-Member, 1915), Ch. Draftsman, Edison Lab., and *for mail*, 144 High St., West Orange, N. J.
- SIMPSON, Tracy W. (Junior, 1912), Supt., Hotpoint Elec. Htg. Co., 1001 W. Washington Blvd., Chicago, and *for mail*, 1903 Livingstone St., Evanston, Ill.
- SIMPSON, William K. (Junior, 1909), M. E., Nason Mfg. Co., 71 Fulton St., New York, N. Y., and 377 N. Grove St., East Orange, N. J.
- SINCLAIR, Dr. Angus (1883), Editor, Publisher, Angus Sinclair Co., 114 Liberty St., New York, N. Y., and *for mail*, Millburn, N. J.
- SINCLAIR, A. F. (1910; 1911), Cons. and Contr. Engr., Rm. 915, 30 Church St., New York, N. Y.
- SINCLAIR, George M. (1887; 1890), Cons. Engr., 618 Chestnut St., and 1521 Spruce St., Philadelphia, Pa.
- SINGER, Sidney C. (Junior, 1909), Supt. of Distribution, Syracuse Ltg. Co., and 100 E. LaFayette Ave., Syracuse, N. Y.
- SINGLETON, Arthur B. (Junior, 1912), Sales Engr., Kerr Mchy. & Supply Co., Kerr Bldg., and 25 Hooker Ave., Detroit, Mich.
- SINGLETON, Fred (1914), Rep., Loco. Superheater Co., P. O. Box 142, and 87 Center St., Kingston, Ont., Canada.
- SINSHEIMER, Sidney W. (1914), V. P., Genl. Mgr., The Holly Sugar Co., Denver, and *for mail*, Swink, Colo.
- SITARAMACHER, Bachahalli (Associate-Member, 1913), Supt., Dept. of Industries and Commerce, Ringwood, Bangalore, South India.
- SKEWIS, Edwin G. (Associate-Member, 1915), Erecting Engr., C. H. Wheeler Mfg. Co., Philadelphia, and *for mail*, 5815 McMahan Ave., Germantown, Philadelphia, Pa.
- SKINKLE, Jay W. (1913), Acting Wks. Mgr., West. Elec. Co., Ltd., North Woolwich, London, and Lamorbey Park Hotel, Sidcup, Kent, England.
- SKINNER, Allan D. (1913), V. P., Skinner Eng. Co., Erie, Pa.
- SKINNER, Haleyon N. (Junior, 1913), Mech. Dept., Alex. Smith & Sons Carpet Co., and *for mail*, 152 Hawthorne Ave., Yonkers, N. Y.
- SKINNER, James D. (1915), 852 Gas and Elec. Bldg., and *for mail*, 909 Pearl St., Denver, Colo.
- SKINNER, Orville C. (1915), Supt. of Mfg., Stand. Steel Wks. Co., Burnham, Pa.
- SKINNER, Ramsay (1913), Reeves & Skinner Mchy. Co., and *for mail*, 2638 Tennessee St., St. Louis, Mo.

- SKOGMARK, John (1912), Constr. Engr., Mineral Point Zinc Co., 1111 Marquette Bldg., Chicago, Ill.
- SLADE, Arthur J. (1904), 1414 Times Bldg., and 172 E. 72d St., New York, N. Y.
- SLADER, Walter (1915), M. E., John A. Stevens, 8 Merrimack St., and 64 Hanks St., Lowell, Mass.
- SILAUGHTER, Benjamin G. (1911), V. P., Tenn. Copper Co., Copperhill, Tenn.
- SCLAUSON, Harold W. (Junior, 1908), Mgr. Motor Dept., Leslie's Weekly, 225 Fifth Ave., New York, and Chatterton Parkway and Chase St., White Plains, N. Y.
- SLEE, Norman S. (1909; 1913), Babcock & Wilcox Co., 85 Liberty St., New York, N. Y., and *for mail*, 81 Hillside Rd., El Mora, Elizabeth, N. J.
- SLEFFEL, Charles C. (1913), Asst. Prof. Industrial Arts, Teachers College, Columbia Univ., and 195 Claremont Ave., New York, N. Y.
- SLICHTER, Walter I. (1902; 1912), Prof. E. E., Columbia Univ., New York, N. Y.
- SLIDELL, Kemper (Associate-Member, 1915), Spec. Rep., Anglo Am. Mill Co., 542 Park Ave., Kansas City, Mo.
- SLINING, George J. (1909), Supt., Cleveland-Cliffs Iron Co., Gladstone, Mich.
- SLOAN, Ben (Associate-Member, 1913), Pratt & Whitney Co., 12 N. Jefferson St., Chicago, Ill.
- SLOAN, Robert F. (Associate-Member, 1915), Genl. Mgr., Charlevoix Rock Product Co., Charlevoix, Mich.
- SLOANE, Charles O'C. (Junior, 1910), Sales Mgr., Automatic Weighing Mch. Co., 136 Commerce St., New York, N. Y., and *for mail*, 90 Sterling Ave., Orange, N. J.
- SLOAT, Halbert M. (1915), Rep., Middletown Car Co., Pittsburg Coal Co., McClintic Marshall Co., 107 Avenida Rio Branco, and *for mail*, C. C. 1634 Rio de Janeiro, Brazil, S. A.
- SLOCUM, Chester A. (Junior, 1907), Cons. Engr., Douglas Sprague & Associates, 39 Cortlandt St., New York, N. Y., and 58 Chelsea Ave., Long Branch, N. J.
- SLOMER, Wm. F. (1909), Engr. Rep., The Fellows Gear Shaper Co., Springfield, Vt., and *for mail*, 131 Lothrop Ave., Detroit, Mich.
- SLUSS, Alfred H. (1913), Asst. Prof. M. E., Mech. Lab., Univ. of Kan., and *for mail*, 1122 Ohio St., Lawrence, Kan.
- SLY, Frederick S. (Associate, 1913), The American Architect, 50 Union Sq., and 609 W. 115th St., New York, N. Y.
- SMALL, Frank W. (1913), Steam Dept., Pac. Gas & Elec. Co., Grant Bldg., San Francisco, and *for mail*, 5488 Taff Ave., Oakland, Cal.
- SMALL, H. J. (1884), Vice-President, 1893-1895; Genl. Supt. M. P., So. Pac. Co., Flood Bldg., and *for mail*, 2430 Broadway St., San Francisco, Cal.
- SMALLBONE, Harry E. (1915), Pres., Supt., Smallbone Mfg. Co., 4201 Ravenswood Ave., Chicago, and *for mail*, 1241 Hill St., Wilmette, Ill.
- SMALLWOOD, Julian C. (1913), Assoc. Prof. Exper. Engrg., Syracuse Univ., and *for mail*, 617 Walnut Ave., Syracuse, N. Y.
- SMART, Charles E. (1914), Efficiency and M. E., Greenfield Tap & Die Corp., and *for mail*, 38 Union St., Greenfield, Mass.
- SMART, Richard A. (1894; 1900; 1906), Georgiana, Fla.
- SMEAD, William H. (1906; 1911), M. E., Box 352, and 12,425 Chesterfield Ave., Cleveland, O.
- SMEALLIE, John M. (Associate-Member, 1913), Lieut. U. S. N., Navy Yard, Brooklyn, and Amsterdam, N. Y.
- SMERLING, Carl (Associate-Member, 1915), Cons. Engr., 114 Hart St., Brooklyn, N. Y.

- SMITH, A. Parker (1887), Lawyer, Counsel in Pat. Cases, 61 Broadway, New York, N. Y.
- SMITH, Albert H. (1916), Production Engr., The Sefton Mfg. Co., 1301 W. 35th St., Chicago, Ill.
- SMITH, Albert S. (1911), Supt. of Bldgs. and Power, Mass. Inst. of Tech., Boston, and *for mail*, 32 Oakland St., Winthrop, Mass.
- SMITH, Albert W. (1880; 1892), Dir., Sibley College, Cornell Univ., Ithaca, N. Y.
- SMITH, Allen C. (1902), Otis Elev. Co., New York, and *for mail*, 33 Morris St., Yonkers, N. Y.
- SMITH, Alton L. (1904), Prof. Drawing and Mch. Design, Worcester Poly. Inst., and *for mail*, 18 McKinley Rd., Worcester, Mass.
- SMITH, Alvin L. (Junior, 1914), Ch. Draftsman, Sentinel Mfg. Co., 306 Humphrey St., New Haven, Conn., and Cedarhurst, L. I., N. Y.
- SMITH, Arthur D. (1913), Ch. Engr., Washington Steel & Ordnance Co., Washington, and *for mail*, 1329 Valley Pl., Anacostia, D. C.
- SMITH, Augustus (1902), Pres., Bergen Point Iron Wks., foot W. 5th St., Bayonne, N. J.
- SMITH, Cameron C. (1906), Pres., Genl. Mgr., Union Steel Castings Co., and 719 N. Negley Ave., Pittsburgh, Pa.
- SMITH, Carl D. (Junior, 1909), Engr., U. S. Bureau of Mines, 40th and Butler Sts., Pittsburgh, and 215 Ninth St., Aspinwall, Pa.
- SMITH, Charles H. (1914), Engr., Spec. Inspr., Associated Factory Mutual Fire Ins. Cos., Rm. 510, 31 Milk St., Boston, and *for mail*, 12 Boston Ave., West Medford, Mass.
- SMITH, Charles P. (Junior, 1888), Worsted Dept., Pacific Mills, Lawrence, and *for mail*, Forest Gate, Methuen, Mass.
- SMITH, Donald F. (Junior, 1913), 2323 Robinwood Ave., Toledo, O.
- SMITH, Dyer (Associate, 1913), Counsel in Pat. Cases, Solicitor of Patents, S. O. Edmonds, 32 Liberty St., New York, N. Y., and 15 The Crescent, Montclair, N. J.
- SMITH, E. Burton (Junior, 1905), Supt. Factories, Welch Grape Juice Co., Westfield, N. Y.
- SMITH, Edric B. (Associate-Member, 1913), Asst. Mgr., Rockefeller Inst. for Medical Research, 66th St. and Ave. A, New York, N. Y.
- SMITH, Edward J. (1904), Cons. Engr., Mfrs.' Agt., 30 Church St., New York, and 553 Lincoln Pl., Brooklyn, N. Y.
- SMITH, Edwin D. (1914), Ch. Engr., United Rys. Co., 3869 Park Ave., St. Louis, Mo.
- SMITH, Elmer (1913), Genl. Elec. Co., 84 State St., Boston, Mass.
- SMITH, Ernest L. (1901; 1908), Sales Mgr., Russel Motor & Axle Co., North Detroit, and *for mail*, 24 Chandler Ave., Detroit, Mich.
- SMITH, Eugene (Associate-Member, 1914), Dist. Mgr., Detroit Stoker Co., 515 Garfield Bldg., and 1660 E. 82d St., Cleveland, O.
- SMITH, Frederick C. (1913), Genl. Supt. Port Arthur Refinery, The Tex. Co., Port Arthur, Jefferson Co., Tex.
- SMITH, George H. (1881), Pres., The Beaman & Smith Co., Gordon and Reynolds Aves., and *for mail*, 68 Humboldt Ave., Providence, R. I.
- SMITH, George M. (1904; 1915), Ch. Engr., Walter Rachals & Co., 613 Stambaugh Bldg., Youngstown, O.
- SMITH, Harold A. (Junior, 1915), M. M., Palmer Mill, Three Rivers, Mass.
- SMITH, Harold B. (1894), Prof. E. E., Dir. E. E. Dept., Worcester Poly. Inst., and 20 Trowbridge Rd., Worcester, Mass.

- SMITH, Harry E. (1894; 1903), Assoc. Prof. M. E., Agri. and Mech. College of Tex., College Station, Tex.
- SMITH, Harry F. (1908), Secy., Genl. Mgr., Smith Gas Power Co., Lexington, O.
- SMITH, Harry J. (1909), Wks. Mgr., Ch. Engr., Hill Clutch Co., Cleveland, O.
- SMITH, Herbert J. (Junior, 1913), Supt., Russell Mfg. Co., and *for mail*, 21 West St., Greenfield, Mass.
- SMITH, Horace M. (1913), Supt. Mch. Shops and Foundries, Liquid Carbonic Co., 3100 S. Kedzie Ave., and 5208 Dorchester Ave., Chicago, Ill.
- SMITH, Howard W. (Junior, 1892), Ch. Engr., Stand. Eng. Co., and *for mail*, P. O. Box 126, Ellwood City, Pa.
- SMITH, J. Waldo (1896), Ch. Engr., Bd. of Water Supply, Municipal Bldg., and 145 E. 35th St., New York, N. Y.
- SMITH, James A. (1913), Genl. Supt., Genl. Elec. Co., and *for mail*, 214 Campbell Ave., Schenectady, N. Y.
- SMITH, James C. (1915), V. P., Supt., McNab & Harlin Mfg. Co., and 667 E. 29th St., Paterson, N. J.
- SMITH, James W. (1909), 284 Highland St., Worcester, Mass.
- SMITH, Jesse M. (1883), Manager, 1891-1894; Vice-President, 1894-1896, 1899-1901; President, 1909; Life Member; M. and E. E., Expt. in Pat. Causes, Rm. 1312, 90 West St., and *for mail*, 32 W. 40th St., New York, N. Y.
- SMITH, John S. (1912), Engr. Oil Dept., S. Pearson & Sons, Ltd., and *for mail*, 47 Parliament St., Westminster, London, S. W., England.
- SMITH, L. P. C. (Junior, 1906), Ch. Draftsman Gas Eng. Dept., Allis-Chalmers Mfg. Co., and *for mail*, 551 69th Ave., West Allis, Wis.
- SMITH, Mark E. (Junior, 1908), Draftsman, Erie City Iron Wks., and *for mail*, 227 W. 18th St., Erie, Pa.
- SMITH, Merrill Van G. (1915), Prof. M. E., Delaware College, Newark, Del.
- SMITH, Miles M. (Junior, 1914), Instr. Mch. Design and Shop Math. Vocational Dept. Mch. Shop, Tech. High Sch., and *for mail*, 1715 Broadway, Indianapolis, Ind.
- SMITH, Oberlin (1881), Manager, 1883-1886; President, 1890; Pres., Ferracute Mch. Co., and Lochwold, Bridgeton, N. J.
- SMITH, Percy C. (Junior, 1913), Factory Mgr., The Maxim Silencer Co., and *for mail*, 35 Sumner St., Hartford, Conn.
- SMITH, Persifor F., Jr. (1904), Supt. M. P., Pa. Lines, 1036 Ohio Bldg., Toledo, O.
- SMITH, Peter M. (Junior, 1915), Designer, The William Tod Co., and *for mail*, 32 Glenaven Ave., Youngstown, O.
- SMITH, Raymond W. (Junior, 1913), 552 Boulevard, Westfield, N. J.
- SMITH, Robert W. (1890), V. P., Hilles & Jones Co., and *for mail*, 1105 Franklin St., Wilmington, Del.
- SMITH, Robert Wm. (1914), Constr. Engr., Mich. Alkali Wks. No. 2, Wyandotte, Mich.
- SMITH, Roy B. (1905; 1912), M. P. Inspr., Pa. Lines West, and *for mail*, 356 14th Ave., Columbus, O.
- SMITH, Roy H. (Junior, 1906), Secy., Treas., Genl. Mgr., The Falls Rivet Co., and 451 Park Ave., Kent, O.
- SMITH, Sanford C. (1914), Mgr., McClave-Brooks Co., Rm. 351, 50 Church St., New York, N. Y.
- SMITH, T. Carpenter (1886), "Havod," Constant Spring P. O., St. Andrews, Jamaica, West Indies.
- SMITH, W. W. (1909), Sales Engr., Chas. C. Moore & Co. Engrs., 424 I. N. Van Nuys Bldg., and *for mail*, 460 E. Adams St., Los Angeles, Cal.

- SMITH, Walter J. (Associate-Member, 1915), Genl. Mgr., Lightwell Steel Sash Co., and *for mail*, P. O. Box 15, Newport, Del.
- SMITH, William (1911), Genl. M. M., Pa. Steel Co., and 223 Walnut St., Steelton, Pa.
- SMITH, William Earhart (Junior, 1908), Draftsman, The Babcock & Wilcox Co., and *for mail*, 421 W. Lake Ave., Barberton, O.
- SMITH, Wm. Edward (1900), Pres., Swedish Portland Cement Mfg. Co., P. O. Box 263, and *for mail*, Strelna, Petrograd, Russia.
- SMITH, William H. (1911), 63 Burlingame Ave., Detroit, Mich.
- SMITH, William Walker (1912), Lieut. U. S. N., Westinghouse Mch. Co., East Pittsburgh, Pa.
- SNEDDON, James P. (1891), The Babcock & Wilcox Co., and 799 Ave. A, Bayonne, N. J.
- SNEEL, Lyle K. (1914), Exec. Engr., Cadillac Motor Car Co., Detroit, Mich.
- SNODGRASS, John McB. (1904; 1913), Asst. Prof. Ry. Engrg., Univ. of Ill., Urbana, and 410 Armory Ave., Champaign, Ill.
- SNOW, Elmer J. (1914), Mahwah, N. J.
- SNOW, Norman L. (Junior, 1910), Genl. Sales Mgr., The Terry Steam Turbine Co., and *for mail*, 234 N. Beacon St., Hartford, Conn.
- SNOW, Sylvester M. (1890), Cons. Engr., 257 Gano St., East Side Sta., Providence, R. I.
- SNOW, Walter B. (1898), Publicity Engr., 136 Federal St., Boston, and 115 Russell Ave., Watertown, Mass.
- SNOW, Wm. G. (1905), N. E. Mgr., Warren Webster & Co. of Camden, N. J., Rm. 1108, 24 Milk St., Boston, and 11 Devon Rd., Newton Centre, Mass.
- SNYDER, George T. (1912), M. E., Natl. Wks., Natl. Tube Co., and 1016 S. Park St., McKeesport, Pa.
- SNYDER, James R. (Junior, 1915), Asst. Engr., Fulton Co. Gas & Elec. Co., and *for mail*, Y. M. C. A., Gloversville, N. Y.
- SNYDER, Leo H. (Junior, 1907), Joseph Dixon Crucible Co., and 782 Montgomery St., Jersey City, N. J.
- SNYDER, Thomas A. (Junior, 1914), Asst. Estimating Engr., Bucyrus Co., South Milwaukee, and 604 Wentworth Ave., Milwaukee, Wis.
- SNYDER, William E. (1900), M. E., Am. Steel & Wire Co., Frick Bldg., and *for mail*, 1712 Morrell St., N. S., Pittsburgh, Pa.
- SNYDER, William R. (Junior, 1911), Hotel Albert, University Pl. and 11th St., New York, N. Y.
- SNYPP, Charles E. (1912), Dist. Engr., The So. Cotton Oil Co., New Orleans, and *for mail*, Gretna, La.
- SOMERVILLE, W. A. S. (Associate-Member, 1914), Engr., The B. F. Goodrich Co., and *for mail*, 250 W. Market St., Akron, O.
- SONN, George P. (Junior, 1915), Engrg. Dept., Bridgeport Brass Co., and *for mail*, 2990 N. Main St., Bridgeport, Conn.
- SOPER, Ellis (1905; Associate, 1908), Pres., The Soper Engrg. Co., James Bldg., Chattanooga, and 202 Normal Ave., North Chattanooga, Tenn.
- SORGE, Adolph, Jr. (1886), M. E., 1537-1539 Monadnock Blk., Chicago, Ill., and St. Joseph, Mich.
- SORNBERGER, Edwin C. (1890), 208 Lancaster Ave., Buffalo, N. Y.
- SORROW, Walter J. (1913), Supt. of Production Plant Dept., Winchester Repeating Arms Co., and *for mail*, 80 Pond St., New Haven, Conn.
- SORZANO, Julio F. (1884), Life Member; Cons. C. and M. E., Pres., Pan-Am. Chamber of Commerce, 42 Broadway, New York, and *for mail*, 228 Garfield Pl., Brooklyn, N. Y.
- SOUBA, William H. (Associate-Member, 1914), Hopkins, Minn.

- SOUTH, Furman, Jr. (Junior, 1913), Charge Cost Dept., Riter-Conley Mfg. Co., Leetsdale, and *for mail*, 15 Maple Lane, Edgeworth, Allegheny Co., Pa.
- SOUTHER, Henry (1894), Pres., Henry Souther Engrg. Corp., 11 Laurel St., Hartford, Conn.
- SOUTHWORTH, Martin O. (1907), E. E., Fairbanks, Morse & Co., 900 S. Wabash Ave., and *for mail*, Hotel Windermere, Chicago, Ill.
- SOVERHILL, Harvey A. (1909), V. P., Genl. Supt., Root & Van Dervoort Engrg. Co., V. P., Moline Auto. Co., East Moline, and 623 23d St., Moline, Ill.
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- SPACKMAN, Henry S. (1899), Pres., Henry S. Spackman Engrg. Co., 2024 Arch St., Philadelphia, and 105 Ardmore Ave., Ardmore, Montgomery Co., Pa.
- SPALDING, Chester M. (1894), 822 Plum St., Erie, Pa.
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- SPARROW, John P. (1898), Ch. Engr., The N. Y. Edison Co., Irving Pl. and 15th St., New York, and 279 16th St., Brooklyn, N. Y.
- SPAULDING, Hollon C. (1890), 111 W. 11th St., New York, N. Y.
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- SPEAR, Lawrence Y. (1915), V. P., Elec. Boat Co., Groton, Conn.
- SPEAR, Maynard H. (1915), Secy., Genl. Mgr., N. Y. & Queens Gas Co., 88 Main St., and 252 Barclay St., Flushing, L. I., N. Y.
- SPECHT, Victor G. (Junior, 1913), Draftsman M. P. Dept., I. R. T. Co. and N. Y. Rys. Co., New York, and *for mail*, 216 Willoughby Ave., Brooklyn, N. Y.
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- SPENCER, C. G. (1911), Engr., Chile Exploration Co., Tocopilla, Chile, S. A., and 30 Salem St., Springfield, Mass.
- SPENCER, Frank C. (1908; 1912), Designer, J. L. Clark Mfg. Co., and *for mail*, 119 Gardner Ave., Rockford, Ill.
- SPENCER, Ira H. (1913), Pres., The Spencer Turbine Cleaner Co., V. P., Organ Power Co., 618 Capitol Ave., and *for mail*, 447 Prospect Ave., Hartford, Conn.
- SPENCER, Robert L. (Junior, 1913), Instr. M. E., Lehigh Univ., South Bethlehem, Pa.
- SPERRY, Elmer A. (1910), Life Member; Pres., Engr., The Sperry Gyroscope Co., Manhattan Bridge Plaza, and *for mail*, 1505 Albemarle Rd., Brooklyn, N. Y.
- SPICE, Charles G. (Junior, 1913), Carburetor Development Engr., Detroit Lubricator Co., Trumbull and R. R. Aves., and *for mail*, 123 Delaware Ave., Detroit, Mich.
- SPICER, Charles W. (Associate-Member, 1915), M. M., Fernwood Lumber Co., Fernwood & Gulf R. R., Fernwood, Miss.
- SPICER, Clarence W. (1913), Pres., Spicer Mfg. Co., and *for mail*, 417 Central Ave., Plainfield, N. J.
- SPIDY, Edgar T. (Junior, 1912), Asst. Genl. Foreman, Canadian Pac. Ry. Loco. Shops, Winnipeg, Man., Canada.
- SPILLMAN, Harry S. (Junior, 1910), Constr. Engr., Continental Motor Mfg. Co., and *for mail*, 1537 Second Ave., Detroit, Mich.

- SPIILSBURY, Edmund G. (1890), Cons. Engr., 45 Broadway, New York, and 23 Park Pl., New Rochelle, N. Y.
- SPIILSBURY, Raymond G. (1914), Engr., Designer, John Robertson & Co., 127 Water St., and *for mail*, 22 Stratford Rd., Brooklyn, N. Y.
- SPIRO, Charles (1908), Pres., Genl. Mgr., Columbia Typewriter Mfg. Co., 39 W. 116th St., and *for mail*, 10 W. 121st St., New York, N. Y.
- SPITZGLASS, J. M. (1914), M. E., Peoples Gas Bldg., and 2134 Alice Pl., Chicago, Ill.
- SPOFFORD, Harry H. R. (Junior, 1915), Sales Engr., Schutte & Koerting Co., 132 High St., Boston, Mass.
- SPONSEL, Charles W. (1902), Treas., Mgr., The Allen-Sponsel Co., 195 Pearl St., and *for mail*, 8 Chapin Pl., Hartford, Conn.
- SPONSEL, John G. (Associate-Member, 1913), Asst. to M. M. Gary Plant, Am. Bridge Co., and *for mail*, 446 Marshall St., Gary, Ind.
- SPONSILER, Charles F. (1904; 1912), M. E., Eastman Kodak Co., and *for mail*, 20 Calumet St., Rochester, N. Y.
- SPOTTON, Arthur K. (Junior, 1906), Ch. Engr., Goldie & McCulloch Co., Ltd., Galt, Ont., Canada.
- SPRADO, Carl G. (1903), Engr. in Charge Gas and Blowing Eng. Dept., Allis-Chalmers Mfg. Co., and *for mail*, 733 28th St., Milwaukee, Wis.
- SPRADO, Ralph (1900), Cons. Engr., Sprado Engrg. Co., 704 Am. Bank Bldg., Los Angeles, Cal.
- SPRAGUE, Benjamin O. (1913), Genl. Mgr., Adeline Sugar Factory Co., Adeline, La.
- SPRAU, William C. (1910; 1913), Treas., Barnes Wire Fence Co., 552 Ferry Park Ave., and 27 Churchill Ave., Detroit, Mich.
- SPRINGER, John J. (Junior, 1903), Sales Engr., Crane Hawley Co., Court and Sycamore Sts., Cincinnati, and *for mail*, 4815 Marion St., East Norwood, O.
- SPRINGER, Russell S. (1913), V. P., The Holt Mfg. Co., Stockton, Cal.
- SPRONG, Severn D. (1912), E. E., Edison Elec. Ill. Co. of Brooklyn, 360 Pearl St., and 533 Second St., Brooklyn, N. Y.
- SPRUANCE, Wm. C., Jr. (1906), du Pont Bldg., Wilmington, Del.
- SPURLING, Oliver C. (1907), Asst. Genl. Supt., West. Elec. Co., Hawthorne Sta., Chicago, and 224 S. Ridgeland Ave., Oak Park, Ill.
- SQUIRE, Raymond S. (Junior, 1912), B. F. Sturtevant Co., and *for mail*, 44 Central Ave., Hyde Park, Mass.
- STACY, Elmer N. (1912), Genl. Mgr., Decarie Incinerator Co., McKnight Bldg., and 3216 Hennepin Ave., Minneapolis, Minn.
- STADLER, Charles (1914), Supt. Constr., Sulzberger & Sons Co., 4100 S. Ashland Ave., and *for mail*, 4746 Vincennes Ave., Chicago, Ill.
- STAFFORD, Benjamin E. D. (Junior, 1895), Genl. Mgr., Flannery Bolt Co., Vanadium Bldg., and 4335 Schenley Farms Terrace, Pittsburgh, Pa.
- STALEY, Allen C. (Associate-Member, 1914), Suprv. of Power, United Paper-board Co., 171 Madison Ave., New York, N. Y., and Peoria, Ill.
- STANBROUGH, Duncan G. (Associate, 1907), Packard Motor Car Co., Detroit, Mich.
- STANCLIFF, Arthur D. (Junior, 1912), Field Engr., Tex. Portland Cement Co., 1001 Praetorian Bldg., and 4001 Ross Ave., Dallas, Tex.
- STANDLEY, Albert H. (Junior, 1899), V. P., Genl. Supt., Downington Mfg. Co., and *for mail*, Box 3, also 336 E. Lancaster Ave., East Downington, Pa.
- STANFORD, J. Verne (1911), Prof. M. E., Univ. of Pa., Engrg. Bldg., and 5121 Chestnut St., Philadelphia, Pa.

- STANGLAND, B. F. (1889; 1892), M. E., 45 Fulton St., and 157 W. 123d St., New York, N. Y.
- STANJAR, William (Associate-Member, 1914), Spec. M. E., E. I. du Pont de Nemours & Co., 830 du Pont Bldg., and *for mail*, 801 W. 20th St., Wilmington, Del.
- STANLEY, Alix W. (1893; 1903), Pres., Stanley Rule & Level Co., New Britain, Conn.
- STANLEY, Frank A. (1911), Editorial Rep., Am. Machinist, 10th Ave. and 36th St., New York, N. Y., and *for mail*, 1530 W. Main St., Willimantic, Conn.
- STANNARD, James M. (Associate, 1915), Pres., Treas., Stannard Power Equip. Co., Chicago Mgr., Am. Steam Pump Co., 1220-1222 Monadnock Bldg., Chicago, Ill.
- STANTON, Francis A. O'C. (Junior, 1909), 91 River St., and 1104 Bloomfield St., Hoboken, N. J.
- STANTON, Frank M. (1892), Life Member; Min. Engr., 15 William St., New York, and Shore Rd., Whitestone, L. I., N. Y.
- STANWOOD, J. B. (1889), Manager, 1897-1900; Engr., V. P., Houston, Stanwood & Gamble Co., and *for mail*, 623 Oak St., Cincinnati, O.
- STAPLES, H. A. (Junior, 1903), Bridgeport Brass Co., and *for mail*, 1052 Laurel Ave., Bridgeport, Conn.
- STARBUCK, George F. (Junior, 1901), Draftsman, Boston Elev. Ry., Boston, and *for mail*, Waltham, Mass.
- STARK, Willet E. (Junior, 1915), 416 W. Ottawa St., Lansing, Mich.
- STARKWEATHER, Wm. G. (1897), N. E. Mgr., C. H. Wheeler Mfg. Co., A. L. Ide & Sons, 53 State St., Boston, and 17 Gibson Rd., Newtonville, Mass.
- STARR, Frederick W. (1912), Publicity Mgr., The Pope Mfg. Co., and 45 Holland Ave., Westfield, Mass.
- STARR, John E. (1905), Pres., Starr Engrg. Co., 90 West St., and 12 Fifth Ave., New York, N. Y.
- STARRETT, Goldwin (1914), Arch., Mem. of Firm, Starrett & Van Vleck, 45 E. 17th St., New York, N. Y.
- STAUDE, Edwin G. (Junior, 1908), Pres., Managing Dir., E. G. Staude Mfg. Co., 2675 W. University Ave., St. Paul, and *for mail*, 1839 Kenwood Parkway, Minneapolis, Minn.
- STEARNS, Harold E. (1914), Supt., Treas., Dominion Wadding Co., Ltd., and Montreal Quilting Co., Ltd., and *for mail*, 8 McGregor St., Montreal, Canada.
- STEARNS, Thomas B. (1883), Vice-President, 1911-1913; Min. and M. E., 1720 California St., and 1218 Washington Ave., Denver, Colo.
- STEBBINS, Albert C. (1904), V. P., Niles-Bement-Pond Co., and 835 W. 7th St., Plainfield, N. J.
- STEBBINS, Charles B. (1914), 506 Melrose Court, Clinton, Ia.
- STEBBINS, Theodore (1903), 34 Gramercy Park, New York, N. Y.
- STECHEER, Charles E. (1913), Asst. M. E., The Pearson Engrg. Corp., Ltd., 115 Broadway, New York, N. Y.
- STEDMAN, James E. (1912), Engr., Bd. of Supvg. Engrs., Chicago Traction, 105 S. La Salle St., and 935 Greenwood Terrace, Chicago, Ill.
- STEE, Reuben M. (Junior, 1914), Engr., Salesman, Canadian Fairbanks Morse Co., and *for mail*, 209 Warwick Court, Winnipeg, Man., Canada.
- STEELE, Reginald A. (Junior, 1912), Estimator, Draftsman, McDougall & Potter Co., and *for mail*, 558 W. 162d St., New York, N. Y.
- STEELE, Ben W. (Junior, 1907), 17 W. 32d St., New York, N. Y.
- STEELE, Walter D. (1892; 1901), V. P., Benjamin Elec. Mfg. Co., 120-128 S. Sangamon St., Chicago, Ill.

- STEEN, Arthur B. (1903), Producers Oil Co., Houston, Tex.
- STEENSTRUP, P. S. (1906), care of H. F. Watkins & Co., 773 Tucuman, Buenos Aires, Argentina, S. A.
- STEHLIN, Joseph (Associate, 1905), Pres., Farmers Feed Co. of N. Y., 532 E. 76th St., New York, and Long Beach, L. I., N. Y.
- STEINMETZ, Charles P. (1907), Cons. Engr., Genl. Elec. Co., Prof. E. E., Union Univ., and *for mail*, Wendall Ave., Schenectady, N. Y.
- STEINMETZ, Joseph A. (1914), Mem. of Firm, Janney, Steinmetz & Co., 4th and Market Sts., Philadelphia, and 736 Westview Ave., Germantown, Philadelphia, Pa.
- STEM, Frank B. (1915), M. E., Day & Zimmermann, 611 Chestnut St., and *for mail*, 234 E. Durham St., Philadelphia, Pa.
- STENBOL, Carl (Associate-Member, 1913), M. E. Steel Dept., Canada Cement Co., Herold Bldg., Montreal, Que., and 130 High St., Sydney, N. S. Canada.
- STEPHENS, Harry H. (Associate-Member, 1915), Secy., Engr., D'Olier Centrifugal Pump & Mch. Co., Sanitation Corp., and *for mail*, 340 12th Ave., Paterson, N. J.
- STEPHENS, Phinehas V. (1910), Cons. Engr., 796 E. 175th St., New York, N. Y.
- STEPHENS, Thomas S. (1914), Branch Mgr., Manning, Maxwell & Moore, Inc., 1960 Ry. Exch. Bldg., St. Louis, Mo.
- STEPHENS, Willis C. (Associate-Member, 1914), East Mgr., Rice & Adams, 150 Nassau St., and *for mail*, 580 St. Nicholas Ave., New York, N. Y.
- STEPHENSON, Hermann (Junior, 1909), 116 E. Seneca St., Ithaca, N. Y.
- STEPHENSON, Thomas I. (1916), Pres., Mgr., Knoxville Iron Co., Pres., Cross Mountain Coal Co., and 203 E. 5th Ave., Knoxville, Tenn.
- STERNER, Edward J. (Junior, 1913), 405 Pawnee St., South Bethlehem, Pa.
- STEVENS, Alfred H. (1898; 1903), Engr., Contr., 149 Broadway, New York, and *for mail*, 400 Ninth St., Brooklyn, N. Y.
- STEVENS, Austin P. (Associate-Member, 1915), M. M., Ch. Engr., Cochrane Chem. Co., and *for mail*, 2 Jacobs Pl., Everett, Mass.
- STEVENS, Burt D. (1912), V. P., M. E., Miehle Ptg. Press & Mfg. Co., 14th and Robey Sts., Chicago, and 2502 Park Pl., Evanston, Ill.
- STEVENS, E. A. (Associate, 1889), Life Associate; Pres., Hoboken Land & Improvement Co., 1 Newark St., Hoboken, Rd. Comr., State of N. J., State House, Trenton; also, Bernardsville, N. J.
- STEVENS, Everett M. (Associate-Member, 1915), N. E. Mgr., Nashua Mch. Co., 127 Federal St., Boston, Mass.
- STEVENS, Harold L. (Associate, 1904), Dist. Sales Mgr., Lackawanna Steel Co., 40 Central St., Boston, Mass.
- STEVENS, John A. (1902), Manager, 1915-1918; Cons. Engr., 8 Merrimack St., and 78 Hanks St., Lowell, Mass.
- STEVENS, R. C. (1890; 1906), Ch. Engr., Skinner Eng. Co., and *for mail*, R. F. D. 1, Lincoln Rd., Erie, Pa.
- STEVENS, Robert H. (1903; 1912), Stevens Bros., 149 Broadway, New York, N. Y.
- STEVENS, Sidney (1910), V. P., Ludlow Mfg. Associates, Ludlow, Mass.
- STEVENS, Wm. N. (Junior, 1886), Stevens-Aylsworth Co., 90 West St., New York, and 243 Brooklyn Ave., Brooklyn, N. Y.
- STEVENSON, A. A. (1888), V. P., Stand. Steel Wks. Co., 1104 Morris Bldg., Philadelphia, and 201 Kent Rd., Ardmore, Pa.
- STEVENSON, Barton (Associate, 1914), Sales Mgr., Cleveland Dist., Westinghouse Mch. Co., 1117 Swetland Bldg., Cleveland, O.

- STEVENSON, Louis T. (Junior, 1907), Engr., Mountain Mill Paper Co., Lee, and *for mail*, 28 Reed St., Pittsfield, Mass.
- STEVENSON, William H. (1915), Secy., Power Plant Spec. Co., Rm. 1301, 53 W. Jackson Blvd., Chicago, and 604 S. Euclid Ave., Oak Park, Ill.
- STEWART, George H. (1912), Charge of Designing, Supt. Constr. of Mchs., L. & J. A. Stewart, and *for mail*, 74 Park St., Rutland, Vt.
- STEWART, Charles A. (Junior, 1912), Rep., Internatl. Steel & Ordnance Corp., 50 Church St., New York, N. Y., and *for mail*, 1602 Henry St., Alton, Ill.
- STEWART, Chas. E. (Junior, 1908), Cons. Engr., Gasolene Engrs., Head Dept. Auto. Instr., Franklin Union, Berkeley St., Boston, and *for mail*, Tufts College, Mass.
- STEWART, Harry M. (Junior, 1913), Kelly-Springfield Motor Truck Co., and *for mail*, R. F. D. 9, Springfield, O.
- STEWART, Reid T. (1894), Prof. M. E., Univ. of Pittsburgh, and 1524 Shady Ave., Pittsburgh, Pa.
- STEWART, Stanley P. (Associate-Member, 1914), M. E., Stewart Boiler Wks., and *for mail*, 1 Piedmont St., Worcester, Mass.
- STICKNEY, Charles A. (1913), Pres., Charles A. Stickney Co., St. Paul, Minn., and *for mail*, 2729 Pine Grove Ave., Chicago, Ill.
- STICKSEL, C. P. (Junior, 1916), M. E., M. M., The Globe Soap Co., St. Bernard, and *for mail*, Newtown, O.
- STIEFEL, Ralph C. (1897), M. E., Ellwood City, Lawrence Co., Pa.
- STILL, Frederick R. (1909), Ch. Engr., Secy., Am. Blower Co., and 1400 Russell St., Detroit, Mich.
- STILLMAN, Austin F. (1907; 1912), V. P., Secy., Watson Stillman Co., Aldene, and *for mail*, 45 Park Ave., Elizabeth, N. J.
- STILLMAN, Edwin A. (Junior, 1908), Pres., Watson-Stillman Co., 50 Church St., New York, N. Y., and Aldene, N. J.
- STILLMAN, Howard (1895), M. E., Engr. of Tests, So. Pac. Co., 1180 Flood Bldg., San Francisco, and S. W. cor. Piedmont Ave. and Haste St., Berkeley, Cal.
- STILLMAN, Thomas B., Jr. (Junior, 1913), The Babcock & Wilcox Co., 85 Liberty St., New York, N. Y., and 730 Park Ave., Hoboken, N. J.
- STIMMEL, Fred C. (Associate-Member, 1915), Sales Mgr., The Casey-Hedges Co., and *for mail*, 519 Mable St., Chattanooga, Tenn.
- STIMSON, Morris H. (1914), Plant Mgr., U. S. Radiator Corp., Dunkirk, N. Y.
- STIRLING, Allan (1880), Manager, 1881-1884; Vice-President, 1885-1887; Life Member; Drexel Bldg., Philadelphia, and Pleasant Mt., Wayne Co., Pa.
- STIX, Lawrence C. (Junior, 1911), 166 W. 87th St., New York, N. Y.
- STOCKWELL, Rupert K. (1910; 1912), Ch. Engr., Braden Copper Co., Rancagua, Chile, S. A., and care of Dr. W. G. B. Terrell, Salt Lake City, Utah.
- STODDARD, Clifford J. (1915), Ch. Insp., Employers' Liability Assurance Corp., Ltd., 33 Broad St., Boston, and *for mail*, 156 Powder House Blvd., West Somerville, Mass.
- STODDARD, Elgin (1911), V. P., Genl. Mgr., Chas. C. Moore & Co. Engrs., Sheldon Bldg., San Francisco, and 144 Bonita Ave., Piedmont P. O., Oakland, Cal.
- STODDARD, Elliott J. (1909), Expt., R. A. Parker, Pat. Lawyer, 607 Moffat Blk., and 86 Ferris Ave., cor. John R. St., Detroit, Mich.
- STODDARD, Geo. H. (1897), Treas., Mgr., Quincy Market Cold Storage & Warehouse Co., 123 Commercial St., and 197 Beacon St., Boston, Mass.
- STOKOE, James (1910), Panama Mgr., Union Oil Co. of Cal., Balboa, Canal Zone.

- STONE, Charles A. (1914), Mem. of Firm, Stone & Webster Engrg. Corp., 147 Milk St., Boston, Mass.
- STONE, Charles W. (1907), Cons. Engr., Genl. Elec. Co., and 18 State St., Schenectady, N. Y.
- STONE, E. Wadsworth (Junior, 1915), Insp., Internatl. Typesetting Mch. Co., 63 Park Row, New York, and *for mail*, 725 Kenmore Pl., Brooklyn, N. Y.
- STONE, Edison H. (Junior, 1912), Draftsman, The Lunkenheimer Co., and *for mail*, 3483 Cornell Pl., Cincinnati, O.
- STONE, Elmer B. (Junior, 1906), Wks. Mgr., Corbin Cabinet Lock Co., and 3 Trinity St., Britain, Conn.
- STONE, J. Wheaton (1898), Treas., Mgr., The East. Mchy. Co., and 326 Fountain St., New Haven, Conn.
- STONE, Louis L. (1914), Ch. Engr., Hunt Engrg. Co., 515 Republic Bldg., Kansas City, Mo.
- STONE, Mason A., Jr. (Junior, 1907), Constr. Dept., Am. Smelting & Refining Co., Maurer, N. J., and *for mail*, 50 Vanderbilt Ave., New York, N. Y.
- STONE, William G. (1915), Whitesboro, Oneida Co., N. Y.
- STOOP, William J. (1915), 130 Parker Ave., Easton, Pa.
- STORER, Norman W. (1912), Genl. Engr., Westinghouse Elec. & Mfg. Co., and *for mail*, 6109 Howe St., Pittsburgh, Pa.
- STORK, Wilford L. (Junior, 1914), 212 Hancock Ave., Jersey City, N. J.
- STORMS, Frank F. (1915), Pres., Page-Storms Drop Forge Co., Chicopee, and *for mail*, 50 Spruceland Ave., Springfield, Mass.
- STORRS, Lucius S. (1914), Pres., The Conn. Co., New Haven, Conn.
- STOTT, Henry G. (1902), Manager, 1907-1910, 1911-1912; Vice-President, 1912-1914; Supt. M. P., I. R. T. Co., and N. Y. R. R. Co., 600 W. 59th St., New York, and Rochelle Heights, New Rochelle, N. Y.
- STOUGHTON, Bradley (1911), Secy., Am. Inst. of Min. Engrs., Cons. Engr., 29 W. 39th St., New York, N. Y., and New Canaan, Conn.
- STOVEL, Russell W. (1902; 1907), Gibbs & Hill, Pa. Sta., New York, N. Y., and *for mail*, 48 Watchung Ave., Montclair, N. J.
- STOWELL, Byron F. (1913), Supt., M. E., Van Norman Mch. Tool Co., Wilbraham Ave., and *for mail*, 79 Dawes St., Springfield, Mass.
- STOWELL, Howard E. (Junior, 1914), Research Dept., The Carborundum Co., Niagara Falls, N. Y.
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- STRADER, Roland H. (Junior, 1915), Jr. Asst. to Supt., Stand. Gas Light Co., 115th St. and East River, New York, and *for mail*, 710 Chauncey St., Brooklyn, N. Y.
- STRALE, Nels W. (Junior, 1914), Draftsman, The Federal Furnace Co., 108th St. and Calumet River, South Chicago, and *for mail*, 6445 Ellis Ave., Chicago, Ill.
- STRATTON, E. Platt (1883), Engr., Naval Arch., Supvr., Am. Bureau of Shipping, and Am. Lloyds, Cons. Engr., Surveyor to N. Y. Board of Underwriters, 66 Beaver St., New York, and Ninth Ave. and 13th St., College Point, Borough of Queens, N. Y.
- STRATTON, Harry F. (Junior, 1904), Genl. Mgr., Ch. Engr., The Elec. Controller & Mfg. Co., Cleveland, O.
- STRATTON, James H. (1906), Engr. of Constr., Wellman-Seaver-Morgan Co., E. 70th St. and Central Ave., and 1871 E. 81st St., Cleveland, O.
- STRATTON, John F. O. (1914), M. E., 1314 Marquette Bldg., 140 S. Dearborn St., Chicago, Ill.

- STRATTON, Samuel W. (1913), Dir. Natl. Bureau of Standards, Dept. of Commerce, and The Farragut, Washington, D. C.
- STRAUB, Albert A. (Junior, 1911), Steam Engr., Duquesne Light Co., and *for mail*, 301 Elysian St., Pittsburgh, Pa.
- STRAUB, C. Lee (1911), 106 High St., Perth Amboy, N. J.
- STRAUB, Harry L. (1915), Elev. Supply & Repair Co., 16th St. and Willow Ave., Hoboken, N. J.
- STRAUB, Theodore A. (1913), V. P., Genl. Mgr., Fort Pitt Bridge Wks., 510 House Bldg., Smithfield and Water Sts., Pittsburgh, Pa.
- STRAUS, William R. (Junior, 1913), Asst. Supt. Rolling Mill, Baltimore Copper Wks., and *for mail*, 1812 Eutaw Pl., Baltimore, Md.
- STRAUSS, Julian B. (1910), 307 W. 79th St., New York, N. Y.
- STRAUSS, William O. (Associate-Member, 1914), Adv. Mgr., Engr., The R. K. LeBlond Mch. Tool Co., 4609 Eastern Ave., Cincinnati, O.
- STREET, Clement F. (1893), V. P., Loco. Stoker Co., 30 Church St., and 445 Riverside Drive, New York, N. Y.
- STREET, Edgar L. (1903), Cons. Engr., 43 Cedar St., New York, N. Y., and Princeton, N. J.
- STREET, George L., Jr. (1916), V. P., J. R. Johnson & Co., Inc., P. O. Box 515, and Midlothian Rd., Forest Hill, Richmond, Va.
- STREETER, Claude O. (Associate-Member, 1915), Asst. Sales and Cons. Engr., The Graton & Knight Mfg. Co., Worcester, and Lake St., Shrewsbury, Mass.
- STREETER, Lafayette P. (1902; Associate, 1903), Air Brake Engr., Ill. Central R. R., and *for mail*, P. O. Box 69, Chicago, Ill.
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- STROBEL, Victor O. (1892), Genl. Mgr. Crane Dept., Niles-Bement-Pond Co., Mifflin and Meadow Sts., and 1537 Pine St., Philadelphia, Pa.
- STROM, Carl A. (1905), Mgr., Am. Loco. Co., Pittsburgh, Pa.
- STRONG, Albert W. (Associate, 1913), Pres., Mgr., The Strong-Scott Mfg. Co., 413 S. 3d St., Minneapolis, Minn.
- STRONG, Frank L. (1912), Pres., Frank L. Strong Mch. Co., cor. Echague and Rizal Ave., and *for mail*, P. O. Box 772, Manila, P. I.
- STROTHMAN, Louis E. (1909), Mgr., Ch. Engr. Pumping Eng. Dept., Allis-Chalmers Mfg. Co., and 835 Summit Ave., Milwaukee, Wis.
- STROUD, Edwin G. (1901; 1914), Mgr., Cleveland Engrg. Agency, Pres., E. G. Stroud Co., Rose Bldg., Cleveland, and 1502 Orchard Grove Ave., Lakewood, O.
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- STROUSE, Sidney B. (Junior, 1909), Engr., Mem. of Firm, Pa. Engrg. Co., 1119-1121 N. Howard St., Philadelphia, Pa., and *for mail*, Apt. 5, 138 S. Maryland Ave., Atlantic City, N. J.
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- STRUCKMANN, Holger (1909), Pres., Genl. Mgr., The Iola Portland Cement Co., 815 Commerce Bldg., and 1618 Linwood Blvd., Kansas City, Mo.
- STUART, Milton C. (Junior, 1912), M. E., U. S. Naval Engrg. Exper. Sta., Annapolis, Md.

- STUART, Percy R. (1911), V. P., Genl. Mgr., Am. Keene Cement Co. of Cal., 257 Monadnock Bldg., San Francisco, and *for mail*, 702 Lerida Ave., Oakland, Cal.
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- STUCKI, Arnold (1907), Engr., Oliver Bldg., and *for mail*, 1615 Falk Ave., N. S., Pittsburgh, Pa.
- STULTS, William R. (Junior, 1913), Asst. Supt., Chase Turbine Mfg. Co., and *for mail*, 73 Ball St., Orange, Mass.
- STUMPF, Johann (1896), Privy Councillor, Prof., Tech. Hochschule, Charlottenburg, and Kurfürstendamm, 33, Berlin, W., Germany.
- STUNTZ, J. E. (Junior, 1903), Supt., Cape Cruz Co., Ensenada de Mora, Cuba.
- STURGESS, John (1901), N. E. Agt., McIntosh & Seymour Corp., 94 Pearl St., Boston, and *for mail*, Hayden Rowc, Hopkinton, Mass.
- STURGIS, Raynor F. (Junior, 1912), Cost Acct., Corn Products Refining Co., 17 Battery Pl., New York, N. Y., and *for mail*, Box 141, Morris Plains, N. J.
- STURGIS, Wm. B. (Junior, 1909), Constr. Engr., Nichols Copper Co., Laurel Hill, L. I., and *for mail*, 500 Maple St., Richmond Hill, L. I., N. Y.
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- STURMFELSZ, George J., Jr. (Junior, 1915), Asst. Boiler House Supt., Plant A, E. I. du Pont de Nemours & Co., City Point, Va.
- STUTZ, C. C. (1900), care of H. P. Hobart, Mackintosh Hemphill & Co., Pittsburgh, Pa.
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- SULLIVAN, Howard W. (Junior, 1908), Secy., Treas., Union Drydock & Repair Co., Weehawken, N. J., and 623 Bedford Ave., Brooklyn, N. Y.
- SULLIVAN, John L. (Junior, 1913), Rate Setter, Westinghouse Elec. & Mfg. Co., East Pittsburgh, and 911 James St., and *for mail*, Genl. Delivery, Wilkensburg, Pa.
- SULZER, Jacob C. (1891), Sulzer Bros., Winterthur, Switzerland.
- SUMMERS, Daniel (Junior, 1915), Pleasure Car Sales Dept., George N. Pierce Co., care of Pierce-Arrow Motor Car Co., and *for mail*, 67 North St., Buffalo, N. Y.
- SUMMERS, Lewis E. (1914), Mgr., Chicago Pneu. Tool Co., 1301 Second Ave., Detroit, Mich.
- SUMMEY, David L. (1907), 169 Buckingham St., Waterbury, Conn.
- SUMNER, Eliot (1910), M. M., Pa. R. R., West Philadelphia, and *for mail*, 6353 Woodbine Ave., Philadelphia, Pa.
- SUMNER, Henry W. (1900; 1912), 2951 First Ave., S., and 702 Boren Ave., Seattle, Wash.
- SUNSTROM, Karl J. (1884), Cons. Engr., Odengaten 92, Stockholm, Sweden.
- SUPLEE, Henry H. (1888), Manager, 1897-1900; Cons. Engr., 43 Exch. St., and *for mail*, 126 Claremont Ave., New York, N. Y.
- SUPPES, Max M. (1890), The Natl. Tube Co., Lorain, O.

- SUTER, George A. (1883; 1893), Pres., G. A. Suter & Co., 112 Wooster St., and *for mail*, 190 Riverside Drive, New York, N. Y.
- SUTER, John H. (1914), Part Owner, Advice Mch. & Mfg. Co., 302½-304 E. 3d St., Los Angeles, Cal.
- SUTHERLAND, James I. (Junior, 1909), Estimator, Stand. Steel Car Co., and *for mail*, 559 Third St., Butler, Pa.
- SUTTON, Frank (1907), Cons. Engr., 80 Broadway, New York, and Babylon, L. I., N. Y.
- SUTTON, George Z. (Associate, 1913), Asst. Treas., Asst. Secy., Stokes & Smith Co., Summerdale Sta., Philadelphia, Pa.
- SUVERKROP, Edward A. (1913), Assoc. Editor, Am. Machinist, 10th Ave. and 36th St., New York, N. Y.
- SVENSEN, Carl L. (Junior, 1911), Instr. M. E., Ohio State Univ., and *for mail*, 1548 Hunter Ave., Columbus, O.
- SVENSSON, John A. (1909), M. E., Oswego Mch. Wks., and *for mail*, 168 W. 5th St., Oswego, N. Y.
- SWAIN, George F. (1883), Cons. Engr., Chairman Boston Transit Com., Prof. C. E., Harvard Univ., Pierce Hall, Oxford St., Cambridge, and 1988 Commonwealth Ave., Boston, Mass.
- SWALLOW, Howard J. (Junior, 1914), Rate Dept., Westinghouse Elec. & Mfg. Co., East Pittsburgh, and *for mail*, 1300 Wood St., Wilksburg, Pa.
- SWAN, John J. (1899; 1909), 1208 Watchung Ave., Plainfield, N. J.
- SWANBERG, F. L. (1902; 1914), Secy., D. T. Williams Valve Co., and 2207 Fulton Ave., Cincinnati, O.
- SWANSON, Herman O. (Junior, 1914), Lab. Engrg., H. H. Franklin Mfg. Co., and *for mail*, 402 Park Ave., Syracuse, N. Y.
- SWARTS, G. Taylor (1909; Associate-Member, 1915), V. P., Ch. Engr., Steam Equip. Mfg. Co., 8077 Jenkins Arcade Bldg., Pittsburgh, and *for mail*, 211 West St., Wilksburg, Pa.
- SWARTWOUT, Everett W. (1910; Associate-Member, 1913), M. E., Nordberg Mfg. Co., 120 Broadway, New York, N. Y.
- SWASEY, Ambrose (1880), Vice-President, 1900-1902; President, 1904; Pres., The Warner & Swasey Co., and 7808 Euclid Ave., Cleveland, O.
- SWEENEY, Jno. M. (1885), M. E., 729 Monadnock Blk., Chicago, Ill.
- SWEENEY, Matthew M. (1914), Ch. Draftsman, Woonsocket Mch. & Press Co., and *for mail*, 116 Second Ave., Woonsocket, R. I.
- SWEET, Charles E. (1907), Treas., Superior Mch. & Engrg. Co., 51-53 Fort St., E., and *for mail*, 135 Taylor Ave., Detroit, Mich.
- SWEET, Ernest E. (1911), Cons. M. E., Ch. Engr., Cadillac Motor Car Co., and *for mail*, 195 Chandler Ave., Detroit, Mich.
- SWEET, Franklin (1903; 1913), Pres., Natl. Mch. Co., 10th and National Ave., and *for mail*, 285 Farwell Ave., Milwaukee, Wis.
- SWEET, John E. (1880; Honorary, 1904), Manager, 1882-1883; President, 1884; Pres., Straight Line Eng. Co., and 114 Merriam Ave., Syracuse, N. Y.
- SWEET, S. Howard (Associate-Member, 1915), The Hitchcock Gas Eng. Co., and *for mail*, 189 Harriet St., Bridgeport, Conn.
- SWEETSER, William J. (1913), Charge Dept. M. E., Univ. of Me., Orono, Me.
- SWENSON, Bernard V. (1903), Barron G. Collier, Inc., 220 W. 42d St., and 32 W. 40th St., New York, N. Y.
- SWIFT, Harley L. (Junior, 1915), Engrg. Dept., Mahoning & Shenango Ry. & Light Co., and *for mail*, 348 Y. M. C. A., Youngstown, O., and 6801 McPherson St., Pittsburgh, Pa.
- SWIGGETT, Clayton A. (Junior, 1912), M. E., Asst. Supt., Iola Portland Cement Co., and *for mail*, 516 S. Walnut St., Iola, Kan.

- SWINTON, David R. (Junior, 1913), M. E., Tuthill Spring Co., 754 Polk St., Chicago, Ill.
- SWITZER, John A. (1912), Prof. Hyd. Engrg., Univ. of Tenn., Hyd. Engr., Tenn. State Geological Survey, Knoxville, Tenn.
- SWOPE, Bruce M. (Junior, 1913), M. P. Inspr. Pittsburgh Div., Pa. R. R., and *for mail*, 221 Centre Ave., Pitcairn, Pa.
- SYKES, Walter J. (Associate-Member, 1914), 1223 E. 57th St., Chicago, Ill.
- SYMONDS, George P. (1908), Constr. Engr., Alberger Pump & Cond. Co., 140 Cedar St., New York, N. Y.
- SYMONDS, Nathaniel G. (1905; 1916), Westinghouse Elec. & Mfg. Co., 111 W. Washington St., Chicago, Ill.
- SYMONS, Johnson V. (1913), M. M. Blast Furnaces and Mills, Cambria Dept., Cambria Steel Co., Johnstown, and 311 Tioga St., Westmont, Johnstown, Pa.
- SYMONS, Wilson E. (1899), Cons. Engr., 900 Postal Telegraph Bldg., and Grand Pacific Hotel, Chicago, Ill.
- SZYMANSKI, Casimir E. (1913), Mech. and Efficiency Engr., Y. M. C. A., Sherbrook St., Montreal, Que., Canada.
- TABER, George H. (1894), Genl. Mgr., Gulf Refining Co., Frick Bldg. Annex, Pittsburgh, and 136 W. Swisssvale Ave., Edgewood, Pittsburgh, Pa.
- TABER, Melbert W. (1912), Constr. Engr., Packard Motor Car Co., and 105 Waverly Ave., Detroit, Mich.
- TABER, William B., Jr. (Junior, 1913), The Aetna Explosives Co., 2 Rector St., New York, N. Y.
- TABOR, Leroy (1909), The Tabor Mfg. Co., 18th and Hamilton Sts., and *for mail*, 2513 S. Garnet St., Philadelphia, Pa.
- TABOR, William H. (Junior, 1914), Instr. Industrial Engrg., Pa. State College, P. O. Box 393, State College, Pa.
- TACCHELLA, Adolf A. (Associate-Member, 1914), Designer, Busch-Sulzer Bros-Diesel Eng. Co., 2d and Utah Sts., and *for mail*, 3190a S. Grand Ave., St. Louis, Mo.
- TADDIKEN, J. F., Jr. (Junior, 1907), Am. Beet Sugar Co., Oxnard, Cal.
- TAFT, Theodore H. (1903; 1910), Asst. Prof. M. E., Mass. Inst. of Tech., Boston, and Cypress Rd., Wellesley Hills, Mass.
- TAG, Walter (Junior, 1915), Steam Tester, Transit Development Co., Kent and Division Aves., and *for mail*, 511 Macon St., Brooklyn, N. Y.
- TAGGE, Arthur C. (1901), Genl. Supt., Canada Cement Co., Ltd., Montreal, and 440 Strathcona Ave., Westmount, Que., Canada.
- TAIT, Edward H. (1913), Supt., Phoenix Portland Cement Co., Nazareth, and *for mail*, 501 Paxinosa Ave., Easton, Pa.
- TAIT, Godfrey M. S. (1906; 1907), Cons. Engr., 1413 G St., N. W., Washington, D. C., and *for mail*, Markham, Va.
- TAKEO, Toshisuke (1908), Cons. Engr., Takeuchi Min. Co., Genl. Mgr., Karatsu Iron Wks., Nishi-Karatsu, Hizen, Japan.
- TALBOT, Arthur N. (1914), Prof. Municipal and Sanitary Engrg., in Charge Theoretical and Applied Mech., Univ. of Ill., Urbana, Ill.
- TALBOT, Clifford (1912), Wks. Mgr., Alberger Pump & Cond. Co., Newburgh, and 44 Third St., Ilion, N. Y.
- TALBOT, Harry J. (Associate-Member, 1913), Tech. Dept., Vacuum Oil Co., Ltd., Caxton House, Westminster, London, and "Roscona," Lichfeld St., Walsall, England.
- TALBOT, Howard H. (1914), Engrg. Dept., The Wm. Tod Co., and *for mail*, 525 Bryson St., Youngstown, O.
- TALBOT, James M. (Junior, 1913), Foreman, S. S. White Dental Mfg. Co., Prince Bay, S. I., and New Dorp, N. Y.

- TALLMADGE, Webster (1911; Associate-Member, 1913), Power Engr., Serv. Dept., Westinghouse Elec. & Mfg. Co., 37 Wormwood St., Boston, and 93 Burrill St., Swampscott, Mass.
- TALLMAN, Frank G. (1881), Manager, 1905-1908; Dir. of Purchases, E. I. du Pont de Nemours & Co., du Pont Bldg., and 1102 Broome St., Wilmington, Del.
- TANSLEY, John A. (1915), Plant Engr., Wm. A. Rogers, Ltd., 425 Main St., and *for mail*, 813 Cedar Pl., Niagara Falls, N. Y.
- TAPPAN, Charles O. (1915), Cons. and Constr. Engr., 2 Rector St., New York, N. Y.
- TARBOX, George R. (1912), Engr., Stanley G. Flagg & Co., Stowe, and *for mail*, 121 N. Hanover St., Pottstown, Pa.
- TATE, John M., Jr. (Associate, 1907), Pres., Tate, Jones & Co., Inc., 1007 Empire Bldg., Pittsburgh, and Sewickley, Pa.
- TAYLOR, Alexander (1907), Mgr. of Wks., Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.
- TAYLOR, Alfred J. T. (Associate-Member, 1914), Managing Dir., The Taylor Engrg. Co., Ltd., 604 Credit Foncier Bldg., and Foot of Tolmie St. on Marine Drive, Vancouver, B. C., Canada.
- TAYLOR, Cecil H. (Associate, 1908), Cons. Engr., Taylor & Neuteboom, 518-520 Broadway Central Bldg., Detroit, Mich.
- TAYLOR, Clarence L. (1904), Ch. Engr., Morgan Engrg. Co., and *for mail*, 653 S. Union Ave., Alliance, O.
- TAYLOR, DeWitt M. (Associate-Member, 1914), Instr. M. E., Mass. Inst. of Tech., Boston, and 99 S. Central Ave., Wollaston, Mass.
- TAYLOR, Donald F. (Junior, 1913), J. G. White Engrg. Corp., 43 Exch. Pl., New York, N. Y., and *for mail*, 34 Madison Ave., Morristown, N. J.
- TAYLOR, Forrest C. (Junior, 1914), Engr., Draftsman, Briggs Chicago Co., North Chicago, and *for mail*, 1742 W. Jackson Blvd., Chicago, Ill.
- TAYLOR, Frank H. (1908), Pres., The S. S. White Dental Mfg. Co., Philadelphia, Pa.
- TAYLOR, Frank W. (1915), Charge Steam Turbine, Erection, Operation, Genl. Elec. Co., and *for mail*, 8 Glenwood Blvd., Schenectady, N. Y.
- TAYLOR, George W. K. (1907), 104-106 John St., New York, N. Y.
- TAYLOR, Harvey B. (1910; 1913), Hyd. Engr., I. P. Morris Co., Beach and Ball Sts., Philadelphia, and 308 Pelham Rd., Germantown, Philadelphia, Pa.
- TAYLOR, J. Hall (1912), Secy., Genl. Mgr., Am. Spiral Pipe Wks., P. O. Box 485, Chicago, and 405 N. Euclid Ave., Oak Park, Ill.
- TAYLOR, John E. (Junior, 1914), N. Y. C. & H. R. R. Co., and *for mail*, 324 N. Peterboro St., Canastota, N. Y.
- TAYLOR, John T. (1891), Supt., 156 Fifth Ave., New York, N. Y.
- TAYLOR, John W. (1909; 1910), Ch. Engr., The Harris Automatic Press Co., Niles, and *for mail*, 4 The Van Antwerp, Forest Ave., Avondale, Cincinnati, O.
- TAYLOR, L. B. (1912), Torpedo Engr., U. S. Naval Torpedo Sta., and *for mail*, 12 Redwood St., Newport, R. I.
- TAYLOR, Percy B. (1909), Cons. Engr., Essex Bldg., and 57 S. 11th St., Newark, N. J.
- TAYLOR, Stevenson (1886), Vice-President, 1899-1901; V. P., Quintard Iron Wks. Co., 742 E. 12th St., New York, N. Y.
- TAYLOR, Stevenson P. (Junior, 1913), Engrg. Salesman, Alberger Pump & Cond. Co., 140 Cedar St., and *for mail*, 123 W. 85th St., New York, N. Y.

- TAYLOR, Walter C. (Junior, 1914), Engr., Am. Steam Gage & Valve Mfg. Co., 208 Camden St., Boston, and *for mail*, 81 Bowdoin St., Dorchester, Mass.; also, Rhodhiss, N. C.
- TAYLOR, Wm. M. (1888; 1904), Pres., Chandler & Taylor Co., S. Addison St., and 2426 E. Washington St., Indianapolis, Ind.
- TAYLOR, William T. (1913), 14 Romford St., Burnley, Lancashire, England.
- TAYLOR, Wyatt W. (Associate, 1908), Asst. Engr., Am. Can Co., 447 W. 14th St., New York, and *for mail*, Spuyten Duyvil, N. Y.
- TEACH, Jacob A. (1912), Minneapolis Steel & Mch. Co., Minneapolis, and *for mail*, 1642 Marshall Ave., St. Paul, Minn.
- TEELE, Fred W. (1904), 33 Pleasant St., Hudson, Mass.
- TEAGUE, Walter O. (1912), Engr., Insp., Associated Factory Mutual Fire Ins. Cos., 31 Milk St., Boston, and *for mail*, 23 Strathmore Rd., Brookline, Mass.
- TEETER, Ralph R. (Junior, 1913), Engrg. Dept., Light Inspc. Car Co., Hagerstown, Ind.
- TEETSELL, Harry F. (Associate, 1914), Genl. Supt., Waldorf Box Board Co., M. M., H. L. Collins Co. and Am. Paper Stock Co., and *for mail*, 1921 Waltham Ave., St. Paul, Minn.
- TEN BROECK, Floyd G. (1903), Cons. Engr., 200 Fifth Ave., New York, and 1421 Glenwood Rd., Brooklyn, N. Y.
- TENNEY, Albert B. (1896; 1904), V. P., Charles H. Tenney & Co., 201 Devonshire St., Boston, and Lexington, Mass.
- TENNEY, Edward H. (1912), Asst. Ch. Engr. of Power Plants, Union Elec. Light & Power Co., 315 N. 12th St., St. Louis, and *for mail*, 714 Atlanta Ave., Webster Groves, Mo.
- TENNEY, Lewis C. (1914), Cadillac Motor Car Co., 1343 Cass Ave., and *for mail*, 119 Richton Ave., H. P., Detroit, Mich.
- TENNEY, Theodore S. (1910), Nygren, Tenney & Ohmes, 101 Park Ave., New York, N. Y., and Riveredge, N. J.
- TERRY, Charles D. (1902; 1908), Asst. to Genl. Supt., Natl. Tube Co., 1706 Frick Bldg., Pittsburgh, and *for mail*, 1123 South Ave., Wilkinsburg, Pa.
- TERRY, Killey E., Jr. (1914), Supt. of Power, S. D. Warren & Co., Cumberland Mills, Me.
- TERRY, M. Victor (Junior, 1915), Draftsman, Asst. to Ch. Engr., Champion Ignition Co., and *for mail*, 1003 Manning St., Flint, Mich.
- TERWILLIGER, Gerald E. (Junior, 1910), Pat. Lawyer, Managing Editor, The Stevens Indicator, 50 Church St., New York, N. Y., and 850 Clinton Ave., Newark, N. J.
- TERWILLIGER, Harry L. (Associate, 1901), Ingersoll-Rand Co., 139 Townsend St., San Francisco, and 1121 Emerson St., Palo Alto, Cal.
- TERZIAN, H. G. (Junior, 1915), Cadet Engr. Gas Dept., Syracuse Ltg. Co., 143 Mechanic St., and *for mail*, 726 University Ave., Syracuse, N. Y.
- THANISCH, Rudolph J. (1914), Asst. Engr., City of Boston, City Hall Annex, Boston, and *for mail*, 151 Park St., West Roxbury, Mass.
- THAYER, Howard C. (Associate-Member, 1914), Steam Engr., Lackawanna Blvd., Gillette, N. J.
- THAYER, Robert E. (Junior, 1911), Assoc. Mech. Editor, Ry. Age Gazette, Am. Engr., Transportation Bldg., Chicago, Ill.
- THIEMER, William H. (1911), M. M., Winton Motor Car Co., Berea Rd., and *for mail*, 9517 Willard Ave., Cleveland, O.
- THOM, George W. (Associate-Member, 1914), 558 College Ave., Appleton, Wis.
- THOMA, Charles, Jr. (1910; Associate-Member, 1914), Supt. Die Dept., E. W. Bliss Co., Brooklyn, N. Y., and *for mail*, 15 Eighth St., Carlstadt, N. J.

- THOMA, Walter (1910; Associate-Member, 1914), Ch. Mech. Inspr., E. W. Bliss Co., Brooklyn, N. Y., and *for mail*, 15 Eighth St., Carlstadt, N. J.
- THOMAS, Albert C. (Associate-Member, 1915), Res. Ch. Engr., Alpha Portland Cement Co., Cementon, N. Y.
- THOMAS, Carl C. (1908), Prof. M. E., Johns Hopkins Univ., Baltimore, and 114 Roland Ave., Roland Park, Md.
- THOMAS, Charles W. (1888), Asst. Prof. Mech. Dept., Columbia Univ., New York, N. Y., and Warren Ave., Palisade, N. J.
- THOMAS, David G. (1909), Ch. Engr., The Denver Union Water Co., and *for mail*, 2447 W. 32d Ave., Denver, Colo.
- THOMAS, Edward G. (1890; 1907), M. E., Wilson Tire & Rubber Co., Springfield, Ill.
- THOMAS, Edward W. (1880), Agt., Boott Mills, and *for mail*, 111 Stevens St., Lowell, Mass.
- THOMAS, Felix (Junior, 1914), Pat. Atty., Kerr, Page, Cooper & Hayward, 55 Liberty St., and 65 Park Ave., New York, N. Y.
- THOMAS, Fred H. (Junior, 1909), Sales Engr., The C. & G. Cooper Co., Mt. Vernon, O.
- THOMAS, George B. (1914), M. E., The Bryant Elec. Co., The Perkins Elec. Switch Mfg. Co., and 125 Lenox Ave., Bridgeport, Conn.
- THOMAS, George C. (1907; 1914), Supt., The Singer Co., Podolsk, Moscow, Russia.
- THOMAS, Glegge (Junior, 1910), B. F. Sturtevant Co., 1006 Wash. Loan and Trust Bldg., and 3120 13th St., N. W., Washington, D. C.
- THOMAS, Horace T. (1909), Ch. Engr., Reo Motor Car Co., and 1100 Michigan Ave., E., Lansing, Mich.
- THOMAS, Hugh K. (1915), Genl. Factory Supt., Asst. Genl. Mgr., Pierce-Arrow Motor Car Co., 1695 Elmwood Ave., Buffalo, N. Y.
- THOMAS, James W. (1905), Engr., United Gas & Elec. Engrg. Corp., 61 Broadway, and 430 W. 118th St., New York, N. Y.
- THOMAS, John M. (Junior, 1915), 825 N. 6th St., Vincennes, Ind.
- THOMAS, Raymond H. (Junior, 1914), Engrg. Dept., Birmingham Iron Fdy., and *for mail*, 323 Olivia St., Derby, Conn.
- THOMAS, Walter H. (1913), Managing Dir., Wm. Jessop & Sons, Ltd., Brightside Wks., Sheffield, England.
- THOMAS, William R. (1913), M. E., Supt., E. D. Jones & Sons Co., 25 Depot St., and *for mail*, 183 Bartlett Ave., Pittsfield, Mass.
- THOMPSON, Albert W. (1900; 1907), Managing Engr., The G. M. Parks Co., Fitchburg, and 318 Hildreth Bldg., Lowell, Mass.
- THOMPSON, Burt D. (Associate-Member, 1915), Am. Car & Fdy. Co., and *for mail*, 118 Gratiot Ave., Detroit, Mich.
- THOMPSON, Byron L. (Associate, 1908), Asst. Mgr. Caustic Soda Dept., Solvay Process Co., and *for mail*, 610 Allen St., Syracuse, N. Y.
- THOMPSON, C. Bertrand (Associate, 1913), Cons. Management Engr., Gray & Davis, Inc., Fenway Sta., and *for mail*, 1255 Commonwealth Ave., Boston, Mass.
- THOMPSON, David (1905), Managing Dir., Thompson & Co., (Castlemaine) Pty. Ltd., and Hall St., Castlemaine, Victoria, Australia.
- THOMPSON, David P. (1914), Asst. Genl. Supt., Inland Steel Co., Indiana Harbor, Ind.
- THOMPSON, Erwin W. (1884), Commer. Agt., Bureau of Foreign and Domestic Commerce, Washington, D. C.
- THOMPSON, Frederick S. (1913), Ch. Engr., Hartford Mch. Screw Co., and *for mail*, 137 Oakland Terrace, Hartford, Conn.

- THOMPSON, Henry P. (Associate-Member, 1914), Sales Engr., Harrison Safety Boiler Wks., Mercantile Library Bldg., and 3522 Montgomery Rd., Cincinnati, O.
- THOMPSON, Herbert L. (Junior, 1912), Hokah, Minn.
- THOMPSON, Hugh L. (1894), Waterbury, Conn.
- THOMPSON, John L. (1915), Supvg. Engr., The Travelers Ins. Co., Travelers Indemnity Co., Hartford, Conn.
- THOMPSON, John R. (1915), Senior M. E., Div. of Valuation, Interstate Commerce Com., 914 Karpen Bldg., Chicago, Ill.
- THOMPSON, Col. John T. (1915), Cons. Engr., Palmer's Corner, Providence Rd., Wallingford, Pa.
- THOMPSON, O. C. (1910; 1915), M. E., Wirebounds Corp., 111 W. Washington St., and 3769 Lake Park Ave., Chicago, Ill.
- THOMPSON, Paul W. (Associate-Member, 1916), Tech. Engr., The Edison Ill. Co. of Detroit, 18 Washington Ave., Detroit, Mich.
- THOMPSON, Ralph E. (Associate-Member, 1914), Factory Supt., Gillette Safety Razor Co., Boston, and *for mail*, 428 Warren St., Brookline, Mass.
- THOMPSON, Sanford E. (1909), Cons. Engr., Odd Fellows Bldg., Newton Highlands, and 141 Milk St., Boston, Mass.
- THOMSON, Francis du P. (1892; 1899), Pres., Humphrey Pump Constr. Co., care of The Wm. Tod Co., and *for mail*, 514 Yale Ave., Youngstown, O.
- THOMSON, J. Stewart (Junior, 1901), Sales Engr., P. O. Box 292, Little Falls, N. J.
- THOMSON, John (1887), Manager, 1892-1895; Pres., John Thomson Press Co., 253 Broadway, and Hotel St. Andrew, 72d St. and Broadway, New York, N. Y.
- THOMSON, John E. (Junior, 1911), V. P., Treas., John Thomson Press Co., 253 Broadway, New York, and 208 Clearmount Ave., Brooklyn, N. Y.
- THOMSON, P. Frescoln (Associate-Member, 1915), Mgr., Thomson Tool & Supply Co., Odd Fellow Bldg., and 854 N. New Jersey St., Indianapolis, Ind.
- THOMSON, Samuel G. (1916), Engr., 120 Broadway, and *for mail*, 125 Riverside Drive, New York, N. Y.
- THOMSON, T. Kennard (1907), Cons. Engr., 50 Church St., New York, and Yonkers, N. Y.
- THORKEKELSON, Halsten J. (1911), Prof. Steam Engrg., Univ. of Wis., and *for mail*, 1526 W. Washington Ave., Madison, Wis.
- THORN, Charles N. (Associate, 1910), V. P., Allied Mchy. Co. of Am., 3 rue Paul Dubois, Paris, France.
- THORNE, William H. (1884), Engr., Wm. Sellers & Co., 1600 Hamilton St., and *for mail*, 1700 Pine St., Philadelphia, Pa.
- THORNHILL, Theodore W. (Junior, 1914), Mgr., Charleston Oil Co., P. O. Box 660, Charleston, S. C.
- THORNLEY, Fred C. (1912), Secy., Production Mgr., Robins Conveying Belt Co., Park Row Bldg., New York, N. Y., and 95 Passaic Ave., Passaic, N. J.
- THORNTON, William F. (1909), R. R. 2, Mechanicsburg, Pa.
- THORNTON, Wm. M. (1900), Prof. Applied Math., Dean Dept. of Engrg., Univ. of Va., Charlottesville, Va.
- THORP, George G. (1892; 1904), Second V. P., Ill. Steel Co., V. P., Ind. Steel Co., Commercial Natl. Bank Bldg., Chicago, and 1012 Lake Shore Drive, Evanston, Ill.
- THORP, Joel R. (Junior, 1913), Asst. Engr., Allis-Chalmers Mfg. Co., Milwaukee, and *for mail*, 575 68th Ave., West Allis, Wis.
- THORPE, George H. (Associate-Member, 1915), M. E., John A. Stevens, 8 Merrimack St., Lowell, Mass.

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- THROCKMORTON, George K. (Junior, 1911), Mgr., Dept. of Engrg. and Drafting, Sears, Roebuck & Co., and *for mail*, 3916 W. Jackson Blvd., Chicago, Ill.
- THULLEN, L. H. (1905), Hall Switch & Signal Co., 50 Church St., New York, N. Y.
- THUMAN, Frederic (1900), Life Member; Dir., Humphreys & Glasgow, Ltd., 36-38 Victoria St., Westminster, London, S. W., and 31 Campden Hill Court, Kensington, London, W., England.
- THURLOW, Oscar G. (1915), Florence, Ala.
- THURMAN, Charles R. (1911), Eastham, Va.
- THURN, Theodore (1904; 1909), Engr., Genl. Elec. Co., 23 Water St., Yokohama, Japan.
- THURSTON, Edw. D., Jr. (1909; 1912), Asst. Prof. M. E., Columbia Univ., and *for mail*, 521 W. 112th St., New York, N. Y.
- THURSTON, George H. (1902), E. and M. E., Consld. Goldfields of South Africa, 8 Old Jewry, London, E. C., England.
- THURSTON, Walter R. (1913), Mgr., The Mine & Smelter Supply Co., Salt Lake City, Utah.
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- TIETZE, William (Associate-Member, 1914), Ch. Engr. Power Plants, Pierce Phosphate Co., Box 4, Pierce, Polk Co., Fla.
- TILDEN, James A. (1885), Genl. Mgr., Hersey Mfg. Co., South Boston, and 66 Beacon St., Hyde Park, Mass.
- TILLEY, John (1914), M. and E. E., Marc Eidlitz & Son, 30 E. 42d St., and *for mail*, 615 W. 136th St., New York, N. Y.
- TILLMAN, Richard H. (Associate-Member, 1915), Industrial Engr., Consld. Gas, Elec. Light & Power Co., Baltimore, Md.
- TILLSON, Benj. F. (Associate-Member, 1915), Head Min. Dept., N. J. Zinc Co., Franklin Furnace, N. J.
- TILSON, Howard (Junior, 1915), Workmen's Compensation Service Bureau, 753 Ins. Exch., Chicago, Ill.
- TIMBIE, William H. (1912), Head of Dept. of Applied Sci., Wentworth Inst., Boston, and 524 Watertown St., Newtonville, Mass.
- TIMMIS, Walter S. (1906), Cons. Engr., Timmis & Chapman, 315 Fifth Ave., New York, and 108 Avondale St., Brooklyn Manor, Woodhaven, L. I., N. Y.
- TIPLADY, John T. (1909), Canadian Westinghouse Co., Ltd., Hamilton, Ont., Canada.
- TIPTON, William H. (Junior, 1912), Steam Engr. Mingo and Bellaire Wks., Carnegie Steel Co., Mingo Junction, and *for mail*, 511 Clinton St. Steubenville, O.
- TISCHNER, Charles F., Jr. (Junior, 1903), Pat. Atty., 149 Broadway, and *for mail*, 11 E. 55th St., New York, N. Y.
- TITCOMB, George E. (1908), Sales Mgr., McMyler Interstate Co., 50 Church St., New York, and 1308 Caton Ave., Brooklyn, N. Y.
- TOBEY, Wm. L. (1890), Prop., Thermex Silencer Wks., 9 Lewis St., East Boston, and *for mail*, 74 Washington Ave., Winthrop, Mass.
- TOBIN, Robert P. (1909), Ch. Tech. Dept., Vacuum Oil Co., 61 Broadway, New York, N. Y., and 54 Roosevelt Ave., East Orange, N. J.
- TODD, James (1911), Pres., Ch. Engr., The Sterling Varnish Co., Pittsburgh, Pa.
- TODD, Robert I. (1907), Pres., Genl. Mgr., Indianapolis Traction & Terminal Co., Indianapolis, Ind.

- TOLLERTON, William J. (1915), Genl. Mech. Supt., Chicago, Rock Island & Pac. Ry., 935 La Salle St. Sta., and *for mail*, 10502 S. Seeley Ave., Chicago, Ill.
- TOLTZ, Max (1904), Manager, 1914-1917; 1410 Pioneer Bldg., and 433 Holly Ave., St. Paul, Minn.
- TOMLINES, Thomas L. (1914), Cons. Engr., Flower Bldg., Watertown, N. Y.
- TOMLINSON, Royal D. (1912), First V. P., Genl. Mgr., The Grangers Lime & Marble Co., West Stockbridge, Mass.
- TOMPKINS, Samuel D. (Associate, 1898), Pres., Smooth-On Mfg. Co., 572 Communipaw Ave., and 533 Communipaw Ave., Jersey City, N. J.
- TOMPKINS, Stonewall (1887; 1890), 1220 Trinity Bldg., New York, and *for mail*, 806 Ocean Ave., Brooklyn, N. Y.
- TONER, Edward J., Jr. (Junior, 1912), Draftsman, Link-Belt Co., Hunting Park Ave., and Reading R. R., Philadelphia, and *for mail*, 131 Myrtle Ave., Cheltenham, Pa.
- TONEY, Perry S. (Junior, 1914), Clerk, Automatic Elec. Co., and *for mail*, 1426 Jackson Blvd., Chicago, Ill.
- TONKIN, Ellsworth (Associate-Member, 1913), Westinghouse Air Brake Co., Wilmerding, and *for mail*, 801 Mill St., Wilkinsburg, Pa.
- TOPPING, Howell (1914), Krebs Pigment & Chem. Co., Newport, and *for mail*, 1024 W. 8th St., Wilmington, Del.
- TORRANCE, Charles E. (1909; Associate-Member, 1913), Ch. Engr., B. F. Perkins & Son, Inc., Holyoke, and 81 Harrison Ave., Northampton, Mass.
- TORRANCE, Henry, Jr. (1897; 1902), V. P., Treas., Carbondale Mch. Co., 50 Church St., New York, N. Y., and Tenafly, N. J.
- TORRANCE, Kenneth (1885; 1893), M. E., Genl. Elec. Co., and 216½ Union St., Schenectady, N. Y.
- TOUCEY, Ralph E. (Junior, 1913), Bridgeport Brass Co., and *for mail*, 289 Maple St., Bridgeport, Conn.
- TOURJEE, William O. (1914), Salesman, M. E., Providence Engrg. Wks., Providence, R. I.
- TOWER, Daniel W. (1900; 1907), Pres., Grand Rapids Brass Co., 90 Scribner Ave., N. W., and 907 Jefferson Ave., Grand Rapids, Mich.
- TOWER, J. Wallace (1914), Engr. for H. S. Ferguson, Cons. Engr., 200 Fifth Ave., New York, N. Y., and 102 Pleasant St., Holyoke, Mass.
- TOWL, Forrest M. (1890), Cons Engr., Pres., So. Pipe Line Co., 26 Broadway, New York, and 794 Carroll St., Brooklyn, N. Y.
- TOWLE, William M. (1887), Life Member; Prof. of Industrial Engrg., Clarkson College of Tech., and *for mail*, 76 Main St., Potsdam, N. Y.
- TOWN, Frederic E. (1905), Dist. Sales Mgr., Otis Elev. Co., 26th St. and 11th Ave., New York, N. Y., and 602 Tremont Ave., Westfield, N. J.
- TOWNE, Henry R. (1882), Vice-President, 1884-1886; President, 1889; Life Member; Yale & Towne Mfg. Co., Stamford, Conn., and *for mail*, 121 Madison Ave., New York, N. Y.
- TOWNE, Thos. (Associate, 1895), 32 W. 40th St., New York, N. Y.
- TOWNSEND, Albert C. (Junior, 1910), The Green Fuel Economizer Co., 90 West St., New York, and 34 Jones St., Beacon, N. Y.
- TOWNSEND, David (1882), Vice-President, 1899-1901; Mech. and Cons. Engr., 1716 Spring Garden St., and *for mail*, 1723 Wallace St., Philadelphia, Pa.
- TOWNSEND, Harry P. (Junior, 1904), Secy., Gehl. Mgr., H. P. Townsend Mfg. Co., 10 Hoadley Pl., and 131 Collins St., Hartford, Conn.
- TOWNSEND, Roy C. (Junior, 1912), Designer, Fairbanks-Morse Co., and *for mail*, 1032 Park Ave., Beloit, Wis.

- TRABOLD, Frank W. (Associate, 1913), Management Sales, J. H. Williams & Co., 150 Hamilton Ave., Brooklyn, N. Y.
- TRACY, Harmon N. (1912), Engr., Prop., The H. N. Tracy Co., 701 Central Bldg., Los Angeles, and 5333 Loma Linda Ave., Hollywood, Cal.
- TRACY, Lyndon S. (1900; 1915), Mgr. Soda Ash Dept., The Solvay Process Co., and 12 Brattle Rd., Syracuse, N. Y.
- DE TRAMPE, J. Adam C. L. (1904), 1703 Spruce St., Philadelphia, Pa.
- TRASK, Walter H., Jr. (Junior, 1908), Utah Power & Light Co., Kearns Bldg., Salt Lake City, Utah.
- TRAUDT, William F. (Associate-Member, 1914), Taber Pump Co., 291 Elm St., and *for mail*, 309 Highland Ave., Buffalo, N. Y.
- TRAUTSCHOLD, Reginald (Junior, 1904), Cons. Engr., 39 Charles St., New York, N. Y.
- TREAT, Sidney W. (Junior, 1911), Southfield Point, Stamford, Conn.
- TREADWELL, Kenneth I. (Junior, 1912), Systemizer, The Sentinel Automatic Gas Appliance Co., and 1366 Chapel St., New Haven, Conn.
- TREFTS, John C. (1909), Farrar & Trefts, 54-56 Perry St., Buffalo, N. Y.
- TREGO, A. C. (Junior, 1915), Industrial Engr., Workmen's Compensation Serv. Bureau, 18 E. 41st St., New York, N. Y.
- TREMAINE, E. G. (1889), P. Lorillard Co., New York, N. Y., and *for mail*, 111 First St., Jersey City, N. J.
- TRENOR, Albert D. (Associate-Member, 1914), Engr., Hammond Radio Research Lab., Gloucester, Mass., and *for mail*, 142 E. 62d St., New York, N. Y.
- TRIBE, James (1889), Allis-Chalmers Mfg. Co., and *for mail*, 575 Murray Ave., Milwaukee, Wis.
- TRIBKEN, Charles W. (1912), Engr., Contr. Agt., Automatic Sprinkler Co. of Am., 332 Granite Bldg., Rochester, N. Y.
- TRINDER, Frederick J. (1913), Supvr. Trade Education, State Bd. of Education, 42 State Capitol, Hartford, Conn.
- TRINKS, W. (1905), Prof. M. E., Carnegie Inst of Tech., and 1410 Denniston Ave., Pittsburgh, Pa.
- TRIPP, Samuel F. (Associate-Member, 1915), Constr. Supt., I. R. T. Co., E. 74th St. Power Sta., and 1104 Findlay Ave., New York, N. Y.
- TRIX, John (1913), Pres., Am. Injector Co., 175 14th Ave., Detroit, Mich.
- TROTH, P. Howard (1903), The Fairbanks Co., 416 Broome St., New York, N. Y., and 1070 Hillside Ave., Plainfield, N. J.
- TROTTER, Arthur H. (1914), M. E., 620 Crouse Ave., Syracuse, N. Y.
- TROTZ, J. O. Emanuel (1906), Managing Dir., Kockums Jernverks, Aktb., Kallinge, and *for mail*, Svanevik, Ronneby, Sweden.
- TROUTMAN, Howard E. (Associate, 1906), Asst. Sales Mgr., Internatl. Steam Pump Co., 770 Old Colony Bldg., and *for mail*, 4448 Prairie Ave., Chicago, Ill.
- TROWBRIDGE, Amasa (1892; 1903), Remington Arms & Ammunition Co., and *for mail*, 188 Elmwood Ave., Bridgeport, Conn.
- TROWBRIDGE, Francis C. (Junior, 1889), Pres., Genl. Mgr., The Black-Clawson Co., and 723 Dayton St., Hamilton, O.
- TRUBE, G. A. (1900), Managing Dir., Compagnie des Freins Westinghouse, 23, Rue d'Athènes, and 17 Hameau de Boulainvilliers, Paris, France.
- TRUE, Charles H. (1913), Shop Supt., Loco. Superheater Co., East Chicago, and 23 Elizabeth St., Hammond, Ind.
- TRUITT, R. Marshall (1913), Genl. Mgr., F. J. Stokes Mch. Co., 17th and Cambria Sts., Philadelphia, and *for mail*, Wayne and Westview Aves., Germantown, Philadelphia, Pa.

- TRUMP, Charles C. (Junior, 1914), Secy., Humphrey Gas Pump Co., 401 S. A. & K. Bldg., Syracuse, N. Y.
- TRUMP, Edward N. (1880; 1890), Vice-President, 1905-1907; V. P., Tech. Dir., Solvay Process Co., V. P., Semet-Solvay Co., and *for mail*, 1912 W. Genesee St., Syracuse, N. Y.
- TRUMPY, Sverre (1913), M. E., Gisholt Mch. Co., and *for mail*, 1225 Spaight St., Madison, Wis.
- TRUSCOTT, Harold S. (1914), Factory Supt., Hawaiian Sugar Co., Makaweli, Kauai, Hawaii.
- TRYON, Clarence A. (1916), Engr., Internatl. Acheson Graphite Co., P. O. Box 616, Niagara Falls, N. Y.
- TUBBY, Charles W. (1912), Dist. Mgr., Internatl. Steam Pump Co., 703 Commerce Bldg., St. Paul, Minn.
- TUCKER, Edwin D. (1898), M. E., 308 W. 104th St., New York, N. Y.
- TUCKER, Frank S. (1905), Genl. Mgr., Spencer Mt. Stone & Brick Co., Charlotte, N. C.
- TUFTS, Leonard (1901), Owner of Pinehurst, N. C.
- TURLEY, Charles L. (Junior, 1915), Supt., Engr., Portsmouth Eng. Co., and *for mail*, 843 Second St., Portsmouth, O.
- TURNBULL, George B. (Associate-Member, 1914), Ch. Engr., Great Lakes Engrg. Wks., and *for mail*, 471 McClellan Ave., Detroit, Mich.
- TURNBULL, William F. (Associate, 1913), Instr. Mech. Drawing and Design, Towne Scientific Sch., Univ. of Pa., and 64 N. 34th St., Philadelphia, Pa.
- TURNER, Charles H. (Junior, 1905), Ch. Engr., Osgood Bradley Car Co., Mountain St., and *for mail*, 17 Randolph Rd., Worcester, Mass.
- TURNER, Charles Phillip (Associate, 1907), Constr. Foreman, Constr. Dept., Genl. Elec. Co., Schenectady, N. Y.
- TURNER, Charles Prentice (1912), Ch. Engr., Pa. Steel Co., Steelton, and *for mail*, 1042 Rolleston St., Harrisburg, Pa.
- TURNER, Frank C. (1914), Salesman, So. Wheel Co., Birmingham, Ala.
- TURNER, Guy S. (1915), Supt. Central Sta., Memphis Consld. Gas & Elec. Co., Beale & Myrtle Sts., and 734 Union Ave., Memphis, Tenn.
- TURNER, Ralph E. (Associate-Member, 1915), Assoc. Editor, Practical Engr., 537 S. Dearborn St., Chicago, and *for mail*, Western Springs, Ill.
- TURNER, Walter V. (1913), Ch. Engr., Westinghouse Air Brake Co., Wilmerding, Pa.
- TURNER, William C. (Junior, 1913), Trinidad Sugar Co., Trinidad, Cuba.
- TURNER, William P. (1900; 1908), Prof. Practical Mech., Purdue Univ., Lafayette, Ind.
- TURNO, Walter G. W. (Junior, 1913), Engr., Estimator, H. W. Johns-Manville Co., 41st St. and Madison Ave., and 2960 Briggs Ave., New York, N. Y.
- TUSKA, Gustave R. (1900), Cons. Engr., 68 William St., and 121 E. 56th St., New York, N. Y.
- TUTTLE, Henry A. (1914), Ch. Engr., Evans Stamping & Plating Co., and *for mail*, 185 Highland St., Taunton, Mass.
- TUTTLE, Irving E. (1909; Associate-Member, 1916), Engr., Baker, Smith & Co., 83 W. Houston St., New York, N. Y., and *for mail*, 1615 Eutaw Pl., Baltimore, Md.
- TUTTLE, Walter I. (Junior, 1908), Secy., Treas., Asst. Genl. Mgr., Frank Mossberg Co., Attleboro, Mass., and 32 Medway St., Providence, R. I.
- TUTTLE, Willard S. (1900), Pres., Garwood Bronze & Iron Wks., Garwood, N. J., and *for mail*, 15 Cambridge Pl., Brooklyn, N. Y.

- TUTTLE, William B. (1905), V. P., San Antonio Gas & Elec. Co.; V. P., San Antonio Traction Co., 305 Houston St., and cor. New Braunfels Ave. and Via Madre, Alamo Heights, San Antonio, Tex.
- TUVIN, Julius H. (Junior, 1912), Frostburg, Md.
- TWINING, Wm. S. (1897), 119 Harvey St., Germantown, Philadelphia, Pa.
- TYBERG, Oluf (1898), Point Loma, Cal.
- TYDEMAN, William A. (Junior, 1909), Secy., Macan Jr. Co., and 856 Meixell St., Easton, Pa.
- TYLER, Chas. C. (1897), Asst. to V. P., Remington Arms-Union Metallic Cartridge Co., 233 Broadway, New York, N. Y., and *for mail*, 768 Fairfield Ave., Bridgeport, Conn.
- TYLER, Hazen G. (Junior, 1913), Instr. M. E., Poly. Inst. of Brooklyn, and *for mail*, 79 Lefferts Pl., Brooklyn, N. Y.
- TYLER, Willard C. (Associate, 1908), European Mgr., Keasbey & Mattison Co., 654 Caxton House, Sanctuary, Westminster, London, S. W., England, and 35 Walker St., Cambridge, Mass.
- TYNG, Arthur (1913), Expt. Appraiser of Spec. Franchises, State Tax Dept., The Capitol, and 132 State St., Albany, N. Y.
- TYSON, James S. Y. (Associate-Member, 1916), Engr., Mex. Petroleum Corp., Carteret, N. J.
- UEBELACKER, Charles F. (1913), Mem. of Firm, Ford, Bacon & Davis, 115 Broadway, New York, N. Y.
- UEHLING, Edward A. (1883), Life Member; Pres., Uehling Instrument Co., Delaware Ave., and *for mail*, 199 Franklin Ave., Passaic, N. J.
- UHL, William F. (1912), Hyd. Engr. with Charles T. Main, Rm. 819, 201 Devonshire St., Boston, Mass.
- UIHLEIN, Herman A. (Junior, 1913), Pres., Genl. Mgr., The Lavine Gear Co., Racine, Wis.
- UIHLEIN, William B. (Junior, 1907), Genl. Supt., Jos. Schlitz Brewing Co., Milwaukee, Wis.
- ULBRICHT, T. Carlile (1908; Associate-Member, 1913), Havana Elec. Ry., Light & Power Co., and *for mail*, 14 San Lazaro, Havana, Cuba.
- ULMANN, Chas. J. (1886), M. E., Bernhard Ulmann & Co., 107-113 Grand St., New York, N. Y.
- UNDERHILL, Henry L. (1915), Asst. Engr. of Mfr., Consld. Gas Co. of N. Y., and *for mail*, 241 W. 108th St., New York, N. Y.
- UNDERWOOD, Charles N. (Junior, 1913), Remington Typewriter Wks., and *for mail*, 44 Elm St., Ilion, N. Y.
- UNGER, John S. (1886), Cons. Engr., 3344 Broadway, Chicago, Ill.
- UNWIN, William C. (Honorary, 1898), 29 Palace Gate, Kensington, London, W., England.
- UPDEGRAFF, William B. (1910), Engrg. Dept., The Watson-Stillman Co., 50 Church St., New York, N. Y., and *for mail*, 522 Magie St., Elizabeth, N. J.
- UPP, John W. (1903), Mgr. Switchboard Dept., Genl. Elec. Co., and *for mail*, 40 Wendell Ave., Schenectady, N. Y.
- UPSON, Lyman A. (1884), Treas., Upson-Martin Co., Thompsonville, Conn.
- UPSON, Maxwell M. (1901; 1907; 1912), Secy., Ch. Engr., Genl. Mgr., Raymond Concrete Pile Co., 140 Cedar St., New York, N. Y., and 83 Dwight Pl., Englewood, N. J.
- UPTON, William B. (1894), Cons. Engr., 540 Leavenworth St., San Francisco, Cal.
- UTLEY, Joseph C. (Junior, 1911), Draftsman M. of W. Dept., Bessemer & Lake Erie R. R. Co., and *for mail*, 74 Clinton St., Greenville, Pa.

- VAIL, Guy R. (1912), Supt., M. E., Advance Pump & Compressor Co., and *for mail*, 44 S. Wabash Ave., Battle Creek, Mich.
- VAILLE, J. Henry (1888), Pres., Treas., Vaile & Kimes, and *for mail*, 119 N. Jefferson St., Dayton, O.
- VALENTINE, Louis R. (Junior, 1907), 1416 Thompson St., Philadelphia, Pa.
- VALLANCE, Alexander (Associate-Member, 1915), Instr. Theo. and Applied Mech., Univ. of Ill., 204 Lab. of Applied Mech., and 905 Gregory St., Urbana, Ill.
- VALTIER, Franz v. (1913), M. E., Goetz Co., 1152-1154 Germantown Ave., and *for mail*, 1321 N. Franklin St., Philadelphia, Pa.
- VAN ALSTYNE, David (1914), Asst. to V. P., N. Y., N. H. & H. R. R., Grand Central Term., and 112 Riverside Drive, New York, N. Y.
- VAN BRUNT, Edmund S. (Associate-Member, 1914), 1313 K St., N.W., Washington, D. C.
- VAN BRUNT, John (1914), Combustion Engrg. Corp., 11 Broadway, New York, N. Y.
- VAN BUSKIRK, Henry C. (1906), The Denver Athletic Club, Denver, Colo.
- VAN CLEVE, Horatio P. (Junior, 1912), Ch. Draftsman, Harrington, Howard & Ash, 1012 Baltimore Ave., and 4119 Virginia Ave., Kansas City, Mo.
- VANCE, Walter N. (1914), V. P., Durand Steel Locker Co., and 260 W. 14th St., Chicago Heights, Ill.
- VAN DEINSE, A. F. (Junior, 1905), Genl. Mgr., Springfield Gas & Elec. Co., Springfield, Mo.
- VANDEMOER, John (Associate, 1904), Am. Smelting & Refining Co., 1108 Mills Bldg., El Paso, Tex.
- VANDERBILT, Cornelius (1899; Associate, 1901), 30 Pine St., and *for mail*, 677 Fifth Ave., New York, N. Y.
- VANDERGRIFT, James W. (1909), V. P., So. Pipe Line Co., and *for mail*, 665 W. Chestnut St., Lancaster, Pa.
- VAN DERHOEF, Geo. N. (1893; 1898), East. Cons. Engr., Dodge Mfg. Co., 21 Murray St., New York, N. Y., and Arlington, N. J.
- VAN DERVOORT, William H. (1914), Pres., Mgr., Root & Van Dervoort Engrg. Co. and Moline Auto. Co., East Moline, Ill.
- VAN DERVORT, Adrian O. (Junior, 1900), Supt., Hammett Mch. Wks., and *for mail*, 90 Oakwood Ave., Troy, N. Y.
- Van der WERFF, John N. (Associate-Member, 1913), Dir. Charge of Production, Emerson Phonograph Co., Inc., 2949 Equitable Bldg., New York, N. Y.
- VANDER WILLIGEN, T. A. (1896; 1904), Rep., Humphreys & Glasgow, Ltd., 209 Chaussée d'Ixelles, Brussels, Belgium.
- VAN DEVENTER, John H. (1914), 7 Philipse Pl., Yonkers, N. Y.
- VAN DUZEE, Harold (Junior, 1885), Cons. Engr., 427 Walnut St., Philadelphia, Pa.
- VAN KEUREN, E. B. (Junior, 1912), M. E., 1905 Am. Trust Bldg., and 1318 S. 20th St., Birmingham, Ala.
- VAN PATTEN, William E. (1910), Superintending Power and Light Plants, M. & E. Div., D. L. & W. R. R., Hoboken, and *for mail*, 212 William St., Boonton, N. J.
- VAN STONE, Charles (1914), V. P., Lumsden & Van Stone Co., 69 High St., Boston, and 46 West St., Reading, Mass.
- VAN SYCKLE, Frederick T. (Junior, 1915), Niles Bement Pond Co., and *for mail*, Y. M. C. A., Hartford, Conn.
- VAN TRUMP, Charles R. (1893; 1898), Life Member; 305 W. 8th St., Wilmington, Del.

- VAN VALKENBURGH, Merritt (Junior, 1915), Draftsman Power Installation Dept., De La Vergne Mch. Co., foot E. 138th St., New York, and *for mail*, 16 Arlington Pl., Brooklyn, N. Y.
- VAN VALKENBURGH, R. D. (1901; 1905; 1911), 511 Y. M. C. A., Scranton, Pa.
- Van VOORHIS, Frederick S. (Junior, 1912), M. E., Diamond Mills Paper Co., Saugerties, N. Y., and Madison, N. J.
- VAN WINKLE, Edward (1904; 1908), Cons. Pat. Engr., 90 West St., New York, and 483 Park Pl., Brooklyn, N. Y.
- VAN WINKLE, Herbert H. (Junior, 1906), M. E., John H. McGowan Co., 51 Central Ave., Cincinnati, O.
- VAN ZANDT, Paul C. (1900; 1907; 1909), M. E., Allis-Chalmers Mfg. Co., 2029 Peoples Gas Bldg., Chicago, and 299 N. Franklin Ave., River Forest, Ill.
- VARNES, Samuel K. (Junior, 1910), Exper. Engr., Pa. Steel Co., Steelton, and *for mail*, 1853 Market St., Harrisburg, Pa.
- VARNEY, Frank H. (1909), Engr., Pac. Gas & Elec. Co., 1095 Market St., and 977 Green St., San Francisco, Cal.
- VARNEY, Wm. W. (1892), M. E., Atty.-at-Law, 1221 Calvert Bldg., and *for mail*, 710 N. Carey St., Baltimore, Md.
- VASSAR, Hervey S. (1914), Lab. Engr., Pub. Serv. Elec. Co., 102 River St., Newark, and *for mail*, 39 Willard Ave., Bloomfield, N. J.
- VATER, Frank F. (1915), Pres., Power Plant Spec. Co., 1301 Monadnock Bldg., Chicago, Ill.
- VAUCLAIN, Andrew C. (1912), V. P., Southwark Fdy. & Mch. Co., 430 Washington Ave., and 401 N. 33d St., Philadelphia, Pa.
- VAUCLAIN, Samuel M. (1894), Vice-President, 1904-1906; V. P., The Baldwin Loco. Wks., 500 N. Broad St., Philadelphia, and Rosemont, Pa.
- VAUGHAN, Aubrey W. (Junior, 1912), Industrial Engr., Am. Optical Co., Southbridge, and *for mail*, Sturbridge, Mass.
- VAUGHAN, Henry H. (1899), Vice-President, 1910-1912; Pres., Montreal Ammunition Co., Ltd., 404 St. James St., and 18 Weredale Park, Montreal, Que., Canada.
- VAUGHAN, John A. (1902), Ch. Inspr. Mchy., Box 1132, Johannesburg, Transvaal, S. A.
- VEAL, C. B. (1907; 1912), Prof. Mch. Design, Purdue Univ., Lafayette, and *for mail*, 633 Russell St., West Lafayette, Ind.
- VEDDER, John N. (1914), Union College, Schenectady, N. Y.
- VEEDER, Curtis H. (1888; 1897), Pres., Veeder Mfg. Co., 28 Sargeant St., Hartford, Conn.
- VEISLAGE, Harold E. (Junior, 1912), M. E., Am. Cotton Oil Co., and *for mail*, 104 W. 70th St., New York, N. Y.
- VEIT, Richard C. (1891), Secy., Stand. Oil Co. of N. Y., 26 Broadway, and 171 W. 71st St., New York, N. Y.
- VENESS, Alfred E. (1911), Wks. Supt., Hopkins & Allen Arms Co., Norwich, Conn.
- VENNUM, George C. (1913), Asst. Ch. Engr. of Power Plants, Union Elec. Light & Power Co., 12th and Locust Sts., and 5652 Etzel Ave., St. Louis, Mo.
- de VERASTEGUI, Albert (1889), Mgr. Export Dept., Babcock & Wilcox Co., 85 Liberty St., New York, and Dobbs Ferry, N. Y.
- VERHEY, Hubert C. (1915), Ch. Designing Engr. Marine Eng. Dept., Busch-Sulzer Bros. Diesel Eng. Co., and *for mail*, 6161 Columbia Ave., St. Louis, Mo.
- VERNER, William F. (1912; 1913), Asst. Prof. M. E., Univ. of Mich., and *for mail*, 908 Lincoln Ave., Ann Arbor, Mich.

- VERNON, Percy V. (1906), Engr., Dir., Alfred Herbert, Ltd., Coventry, and *for mail*, Penvorn, Manor Rd., Coventry, England.
- VIALI, Ethan (1912), West. Editor, Am. Machinist, 3556 Monticelli Ave., Hyde Park, Cincinnati, O.
- VIALI, William A. (Associate, 1902), Secy., Brown & Sharpe Mfg. Co., Providence, R. I.
- VICK, Augustus T. (1911), E. and M. E., 621 Chronicle Bldg., Houston, Tex.
- VICKESS, Samuel (1901), Cons. Engr., 129 Front St., and 151 W. 70th St., New York, N. Y.
- VICTOREEN, Ernest V. (1910), Supt. Shops, Tenn. Coal, Iron & R. R. Co., Ensley, and *for mail*, 2233 Arlington Ave., Birmingham, Ala.
- VIDETO, Theodore N. (Junior, 1912), Vergennes, Vt.
- VIETS, Harry A. (Associate, 1913), Ch. Draftsman Shell Dept., E. W. Bliss & Co., 53d St. and 2d Ave., and *for mail*, 10 Bay Ridge Pl., Brooklyn, N. Y.
- VINCENT, Arthur S. (Associate, 1908), Cons. Engr., Supt., Belnord Apts., 86th St. and Broadway, New York, N. Y.
- VINCENT, Gilbert I. (1913), Engr., Des Moines Gas Co., and *for mail*, 412 Seventh St., Des Moines, Ia.
- VINCENT, Jesse G. (1908; 1910), Ch. Engr., Packard Motor Car Co., East Grand Blvd., and 69 Massachusetts Ave., Detroit, Mich.
- VIOLA, Bartholomew (1901), Ch. Engr., Monsanto Chem. Wks., 1800 S. 2d St., and 3548 Magnolia Ave., St. Louis, Mo.
- VOCKE, Charles W. (Associate-Member, 1915), 9 Monroe St., Ridgewood, N. J.
- VOELKER, Frank (Junior, 1914), 460 Fifth St., Brooklyn, N. Y.
- VOGT, Clarence W. (Junior, 1915), 1382 S. 3d St., Louisville, Ky.
- VOGT, Robert F. (1911), M. E., Cons. Engrg. Dept., Allis-Chalmers Mfg. Co., and *for mail*, 609 47th St., Milwaukee, Wis.
- VOIGHT, Henry G. (1908), Mem. Shop Com., Sargent & Co., and *for mail*, P. O. Box 1531, New Haven, Conn.
- von BAYER, August H. (1912), Supt., Semet-Solvay Co., and Berwyn Park, Lebanon, Pa.
- von GOEBEN, Carl (1899), Erection Supt., De La Vergne Mch. Co., foot E. 138th St., and *for mail*, 128 W. 126th St., New York, N. Y.
- von MILLER, Dr. ing. Oskar (Honorary, 1912), Reichsrat, Ferdinand Millerplatz 3, Munich, Germany.
- von OSWALD, William (1899), Privy Councillor of Commerce, Bergassessor a D., Carl Spaeter, Rheinzollstr. 6, and Rheinanlagen 9, Coblenz, Germany.
- von PEIN, Edward J. (1913), Inventor, Designer, Natl. Cash Register Co., and R. R. 8, Dayton, O.
- von PHILP, C. (1890), Mgr. Mchy. Dept., Bethlehem Steel Co., South Bethlehem, and Bethlehem, Pa.
- Von PHUL, Gilbert D. (1912), Contr. M. E., Sugar and Genl. Mchy., 322 Hibernia Bank Bldg., New Orleans, La.
- von PHUL, William (1907), Mem. of Firm, Ford, Bacon & Davis, 921 Canal St., and *for mail*, 496 Audubon St., New Orleans, La.
- von SCHLEGEL, Frederick (1915), Dist. Mgr., Allis-Chalmers Mfg. Co., 2029 Peoples Gas Bldg., Chicago, Ill.
- VOORHEES, Albert C. (Junior, 1915), Draftsman, Charge Gov. Div., Cal. Shipbuilding Co., and 2 Mermaid Court, Long Beach, Cal.
- VOORHEES, Gardner T. (1900), Refrig. Engr., 32 W. 40th St., New York, N. Y.

- VOSBURY, W. DeWitt (1911), Cons. Engr., Remington & Vosbury, 601 Market St., Camden, and 129 Walnut St., Haddonfield, N. J.
- VOSE, Clarence (1891), Bellport, L. I., and Brooklyn, N. Y.
- VOSE, Fred H. (1906; 1910), Prof. M. E. in Charge of Dept., Case Sch. of Applied Science, and *for mail*, 9912 Newton Ave., Cleveland, O.
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- WADDELL, George F. (Associate, 1898), M. E., Squirrel, Fremont Co., Idaho.
- WADDELL, Joseph A., Jr. (1913), Genl. Supt., Spencer Heater Co., 1540 Albright Ave., and *for mail*, 1650 Monsey Ave., Scranton, Pa.
- WADDELL, Robert (Associate-Member, 1914), Ch. Draftsman, Wash. Iron Wks., Seattle Blvd. and Norman St., and *for mail*, Box 198, Seattle, Wash.
- WADE, Norman S. (Junior, 1913), Steam Testing, Edison Elec. Ill. Co. of Boston, 108 St. Botolph St., Boston, Mass., and Salem, N. H.
- WADIA, Ardeshir D. (1912), Advis. Engr., Prin., A. D. Wadia & Co., Ahmedabad and Bombay, Managing Prop., Imperial Iron Wks., Ahmedabad, Outside Raipur Gate, and *for mail*, care of A. D. Wadia & Co., Ahmedabad, India.
- WADLEIGH, George R. (1907), Ch. Engr., Bemis Bros. Bag Co., 601 S. 4th St., St. Louis, and 32 Maple Ave., Webster Groves, Mo.
- WADSWORTH, Arthur V. (Associate-Member, 1914), Supt., Buckeye Traction Ditcher Co., and *for mail*, 307 Cherry St., Findlay, O.
- WADSWORTH, Frank L. O. (1903), Cons. Engr., Pres., Miller Non-Corrosive Metal Co., Rms. 1347-1348, 1801-1802 Commonwealth Blvd., and Duquesne Club, Pittsburgh, Pa.
- WADSWORTH, George R. (1910), 37 Philbrick Rd., Brookline, Mass.
- WADSWORTH, J. Frederic (Junior, 1915), Asso., Richard Irvin & Co., 310 Commerce Bldg., and 254 W. 8th St., Erie, Pa.
- WAERN, A. W. (1908), Cons. Engr., Jos. H. Wallace & Co., Temple Court Bldg., New York, N. Y.
- WAGNER, Emilio F. (1891), Cons. Engr., Calle de Coca, 74-76, Lima, Peru, S. A., and 9 Route de la Croix, Le Vésinet, France.
- WAGNER, Frank C. (1895), Prof. M. and E. E., Rose Poly. Inst., and *for mail*, 1111 S. 6th St., Terre Haute, Ind.
- WAGNER, Frederick H. (1913), Ch. Engr., The Bartlett Hayward Co., and *for mail*, Rogers Ave. and Pimlico Rd., Sta. E., Baltimore, Md.
- WAGNER, Otto H. (Associate-Member, 1914), Decarie Incinerator Co., 817 McKnight Bldg., Minneapolis, Minn.
- WAGONER, Philip D. (1914), Pres., Genl. Vehicle Co., Inc., Borden and Star Aves., Long Island City, N. Y.
- WAHL, Henry R. (1915), M. E., Commonwealth Edison Co., 22d and Fisk Sts., Chicago, Ill.
- WAINRIGHT, Arthur V. (1915), V. P., Genl. Mgr., Am. Pub. Serv. Co., Abilene, Tex.
- WAINWRIGHT, Lucius M. (1907), Pres., Diamond Chain & Mfg. Co., 241 W. Georgia St., and 1851 N. Penna St., Indianapolis, Ind.
- WAIT, Henry H. (1905), Cons. M. and E. E., Rm. 1201, 30 N. La Salle St., and 5321 Cornell Ave., Chicago, Ill.
- WAIT, J. Russell (1913), Mgr., Charleston Ore Co., and *for mail*, 131 Rutledge Ave., Charleston, S. C.

- WAIT, William B. (Junior, 1914), Asst. Engr., Spreckels Sugar Refining Co., Reed St. Wharf, Philadelphia, and *for mail*, 135 Forrest Ave., Drexel Hill, Pa.
- WAITE, Edward B. (1902; 1914), Cons. Engr., Worcester, and *for mail*, Sutton, Mass.
- WAITT, Arthur M. (1893), Vice-President, 1960-1902; Pres., Stand. Third Rail Co., Cons. Engr., Rm. 1417, 165 Broadway, New York, N. Y., and Landheim, Sharon, Conn.
- WALDECK, Louis E. (Junior, 1913), Mfr. of Paper Boxes, 31 Oakland Ave., Jersey City, N. J.
- WALDEN, Albert E. (Associate-Member, 1913), Supt., Ch. Engr., Baltimore Co. Water & Elec. Co., 100 W. Fayette St., and 508 N. Luzerne St., Baltimore, Md.
- WALDO, Leonard (1894), Cons. Engr., Rm. 802, 49 Wall St., New York, N. Y., and *for mail*, 640 W. 8th St., Plainfield, N. J.
- WALDRON, Frederick A. (1890; 1896), Industrial Engr., Rm. 2200, 37 Wall St., New York, N. Y., and 808 Hillside Ave., Plainfield, N. J.
- WALDRON, J. Laurence (Associate-Member, 1915), Inspr. Testing Bureau, Transit Development Co., and *for mail*, 652a Lafayette Ave., Brooklyn, N. Y.
- WALE, Chas. M. (1890), Agt., Otis Steel Co., Titusville Forge Co., 11 Broadway, and 410 Riverside Drive, New York, N. Y.
- WALKER, Charles A. (Junior, 1912), Teaching M. E., London Co. Council Sch. of Engrs. and Navigation, High St., Poplar, E., and 53 Whittington Rd., Bowes Park, N., London, England.
- WALKER, Emery L. (1910), Genl. Supt., Kieckhefer Box Co., Milwaukee, and *for mail*, 244 E. Milwaukee Ave., Wauwatosa, Wis.
- WALKER, Francis W., Jr. (Junior, 1915), Asst. Genl. Mgr., Beaver Falls Art Tile Co., Beaver Falls, Pa.
- WALKER, Frank A. (1909; 1916), M. E., B. B. & R. Knight, 3 Washington Row, and 106 Broadway, Providence, R. I.
- WALKER, Frederick W. (1898; 1909), V. P., Ch. Engr., Comstock, Haigh, Walker Co., Wayne Co. Bank Bldg., Detroit, Mich., and *for mail*, Cedarburg, Ozaukee Co., Wis.
- WALKER, Gilbert S. (1904), 90 Pierpoint St., Brooklyn, N. Y.
- WALKER, Karl G. (Junior, 1914), Engr., Radical Boring Head Corp., 90 West St., New York, N. Y., and Sewickley, Pa.
- WALKER, Perley F. (1908), Dean Sch. of Engrg., Prof. M. E., Univ. of Kan., and *for mail*, 1301 Ohio St., Lawrence, Kan.
- WALKER, Sidney G. (1907), Engr., Mfrs.' Mut. Fire Ins. Co., 815 Grosvenor Bldg., and 50 Montague St., Providence, R. I.
- WALKER, Thomas C. (1891), Pres., Walker Mfg. Co., 2156 15th St., Denver, Colo.
- WALKER, William C. (Associate-Member, 1915), Tech. Asst., Semet-Solvay Co., and *for mail*, 1921 W. Genesee St., Syracuse, N. Y.
- WALL, Geo. L. (1897; 1904), V. P., Lima Loco. Corp., and *for mail*, 1103 W. High St., Lima, O.
- WALL, William G. (1907), V. P., Ch. Engr., Natl. Motor Vehicle Co., and 2233 Park Ave., Indianapolis, Ind.
- WALLACE, David A. (1892; 1904), M. E., West. Elec. Co., Hawthorne Sta., Chicago, and *for mail*, 647 N. Oak Park Ave., Oak Park, Ill.
- WALLACE, Erwin V. D. (Junior, 1911), Genl. Supt., Prairie State Incubator Co., Homer City, Pa.
- WALLACE, Jacob H. (Associate, 1908), 1313 Seventh St., Boulder, Colo.

- WALLACE, Joseph H. (1897; 1901), Industrial Engr., Temple Court Bldg., New York, and 3 Thomas Pl., New Rochelle, N. Y.
- WALLACE, Lawrence W. (1912), Assoc. Prof. Car and Loco. Design, Purdue Univ., Lafayette, and *for mail*, 629 Russell St., West Lafayette, Ind.
- WALLACE, Ross S. (1904), V. P., Genl. Mgr., Central Illinois Light Co., 316 S. Jefferson Ave., and 216 North St., Peoria, Ill.
- WALLER, Carl R. (1913), Ch. Engr., De Laval Steam Turbine Co., and *for mail*, 493 Chambers St., Trenton, N. J.
- WALLICHS, Adolph O. (1908), Prof. Tech. Hochschule, and *for mail*, Nizza-Allee, 65, Aachen, Germany.
- WALLIS, James T. (1901), Genl. Supt. M. P., Pa. R. R. Lines East of Pittsburgh, Altoona, Pa.
- WALLIS, Philip (1886), Hotel Roanoke, Roanoke, Va.
- WALLNER, Edward P. (Junior, 1916), Nordyke & Marmon Co., and *for mail*, Y. M. C. A., Indianapolis, Ind.
- WALMSLEY, W. N. (1907), Genl. Mgr., Sao Paulo Tramway, Light & Power Co., Ltd., Sao Paulo, Brazil, S. A.
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- WALSH, Edward T. (1913), Asst. Mgr., Agcy. Canadian Car & Fdy. Co., Ltd., 120 Broadway, New York, N. Y., and *for mail*, 1144 Thornton Ave., Plainfield, N. J.
- WALSH, Frank J. (Associate, 1916), Mech. Expt., Galena-Signal Oil Co., 319 Ry. Exch., and 1119 Loyola Ave., Chicago, Ill.
- WALSH, James F. (1913), Mech. Expt., 2024 Monument Ave., Richmond, Va.
- WALSH, William F. (Associate, 1915), Mech. Expt., Galena-Signal Oil Co., 319 Ry. Exch., and *for mail*, 1119 Loyola Ave., Chicago, Ill.
- WALSH, William J. (Associate-Member, 1915), Plant Supt., Fayette R. Plumb, Inc., Bridesburg, Philadelphia, Pa.
- WALTERS, William T. (Junior, 1915), Inspr. Mech. Dept., Ill. Central R. R., and *for mail*, 1054 Patton St., Memphis, Tenn.
- WALTHER, Arthur C. (Associate-Member, 1916), Engr., Supt. Constr., Nixon Nitration Wks., New Brunswick, and *for mail*, 776 Mt. Prospect Ave., Newark, N. J.
- WALTHER, William E. A. (1914), M. E., Ill. Glass Co., Alton, and 2703 Judson St., Upper Alton, Ill.
- WALTON, Albert (Associate, 1911), Factory Economist, Mfg. Acct., 133 S. 12th St., Philadelphia, and *for mail*, 6601 N. 7th St., Oak Lane, Philadelphia, Pa.
- WALTON, Marshall R. (Junior, 1913), Wks. Engr., Pa. Salt Mfg. Co., Natrona, Pa.
- WALWORTH, Arthur C. (1886), Manager, 1894-1897; Pres., Malleable Iron Fittings Co. of Branford, Conn., 100 Pearl St., Boston, and 931 Centre St., Newton Centre, Mass.
- WANDEL, Carleton (Junior, 1914), E. W. Bliss Co., and *for mail*, 878 Park Pl., Brooklyn, N. Y.
- WARD, Charles E. (1900), Pres., Genl. Mgr., Charles Ward Engrg. Wks., and 213 Morris St., Charleston, W. Va.
- WARDENBURG, Frederic A. (1914), Directing Engr. Light, Heat and Power Dept., E. I. du Pont de Nemours & Co., 859 du Pont Bldg., Wilmington, Del.
- WARDER, Walter J., Jr. (1911), Box 983, Tampa, Fla.
- WARFIELD, William G. (1915), Supt. Essex Power Sta., Pub. Serv. Elec. Co., and *for mail*, 52 Cypress St., Newark, N. J.
- WARG, Robert (1903), 253 20th St., Milwaukee, Wis.

- WARING, Charles A. (Associate-Member, 1914), 2902 Parkwood Pl., Toledo, O.
- WARING, Edward H. (1913), M. E., Crocker-Wheeler Co., Ampere, and *for mail*, 325 Washington St., Glen Ridge, N. J.
- WARMAN, William A. (1908), Supt., Designer, Keller Mech. Engraving Co., 70 Washington St., Brooklyn, N. Y.
- WARNER, Charles L. (1913), Pres., Treas., Genl. Mgr., The Baird Mch. Co., Bridgeport, Conn.
- WARNER, Irving (Junior, 1912), Plant Mgr., Charles Warner Co., Wilmington, Del.
- WARNER, Raymond C. (Associate-Member, 1913), Prime Mover Div., Westinghouse Elec. & Mfg. Co., 1800 Union Bank Bldg., and 332 S. Negley Ave., Pittsburgh, Pa.
- WARNER, Robert L. (1899), Banker, Warner, Tucker & Co., 50 Congress St., Boston, and Elm St., Concord, Mass.
- WARNER, Worcester R. (1880), Manager, 1890-1893; President, 1897; V. P., Warner & Swasey Co., Cleveland, O., and 149 Broadway, New York; also, Wilson Park, Tarrytown, N. Y.
- WARR, William (1915), East. Sales Mgr., Robins Conveying Belt Co., 13 Park Row, New York, N. Y., and 558 Park Ave., East Orange, N. J.
- WARREN, Aldred K. (1912), Mfg. Engr., Genl. Elec. Co., West Lynn, and *for mail*, 12 Summer St., Salem, Mass.
- WARREN, Ambrose G. (1907), Beverly, N. J.
- WARREN, George S. (1912), Ch. Engr., Sharon Steel Hoop Co., and *for mail*, 2 Euclid Ave., Sharon, Pa.
- WARREN, John B. (Associate-Member, 1914), Asst. Genl. Mgr., Secy., Philadelphia Steel & Forge Co., 50 Church St., New York, N. Y., and *for mail*, 127 Jewett Ave., Jersey City, N. J.
- WARREN, Kenneth L. (1907), Cons. Engr., Fraserville, Que., Canada.
- WARREN, Ralph H. (1913), Economy Engr., Alpha Portland Cement Co., Easton, Pa.
- WARREN, Walter B. (1901; 1914), V. P., Warren Bros. Co., 711 Journal Bldg., and 344 Cornell Rd., Portland, Ore.
- WARRINGTON, James N. (1884; 1885), 617 S. Grand Ave., Los Angeles, Cal.
- WARRINGTON, Jesse (1887), 271 N. Randolph St., Indianapolis, Ind.
- WARTENWEILER, Otto (1913), Mgr., Otto Wartenweiler & Co., Hollingsworth Bldg., Los Angeles, Cal.
- WASHBURN, John E. (Associate-Member, 1915), Asst. M. M., Natl. Carbon Co., Cleveland, O.
- WASHBURN, William S. (1891), 1363 Main St., Campello Sta., Brockton, Mass.
- WASHINGTON, Dixon E. (1910), Genl. Mgr., Ch. Engr., Packers Architectural & Engrg. Co. of Chicago, 7 Rue Meyerbeer, Paris, France, and 1209 Manhattan Bldg., Chicago, Ill.
- WATERMAN, Fred W. (1912), M. E., The Natl. Tube Co., Lorain, and *for mail*, 116 E. Broad St., Elyria, O.
- WATERS, Everett O. (Junior, 1915), Instr. Mch. Design, S. S. S., Yale Univ., Winchester Hall, and *for mail*, Yale Sta., New Haven, Conn.
- WATERS, George H. (1901), Pres., Geo. H. Waters Co., 2929 Richmond Terrace, Mariner Harbor, S. I., and 345 Bement Ave., West New Brighton, S. I., N. Y.
- WATERS, William L. (1909), Designing Engr., Westinghouse Elec. & Mfg. Co., and *for mail*, University Club, Pittsburgh, Pa.
- WATKINS, Edward G. (1915), Charge Engrg. Dept., Heywood Bros. & Wakefield Co., and *for mail*, 141 Chestnut St., Gardner, Mass.

- WATKINS, Frank E. (1911), Wks. Mgr., East Jersey Pipe Corp., and 395 E. 36th St., Paterson, N. J.
- WATSON, Frank (Junior, 1893), Lexington, Mass.
- WATSON, Henry D. (1897; 1900), 64th St. and West End Ave., New York, and 136 E. 19th St., Flatbush, Brooklyn, N. Y.
- WATSON, Herbert L. (Junior, 1907), Sales Mgr., De Laval Steam Turbine Co., Trenton, N. J.
- WATSON, Hubert L. (Junior, 1913), Draftsman, Elec. Boat Co., Groton, and *for mail*, 331 Ocean Ave., New London, Conn.
- WATSON, J. Edward (Junior, 1915), Draftsman, Am. Pulley Co., 4200 Wissahickon Ave., and *for mail*, 412 W. Wellens Ave., Philadelphia, Pa.
- WATSON, Ralph B. (1914), Engr. of Tests, Erie R. R., and *for mail*, 662 Baldwin St., Meadville, Pa.
- WATTLES, Joseph W., 3d (Junior, 1910), Commer. Engr. Sales Dept., Edison Elec. Ill. Co. of Boston, 39 Boylston St., Boston, Mass.
- WATTS, George W. (1903; 1904), Wks. Mgr., Canadian Genl. Elec. Co., 212 King St., and *for mail*, 1 Beaumont Rd., Toronto, Ont., Canada.
- WAUGH, Orlo L. (Junior, 1912), 45 W. Mohawk St., Buffalo, N. Y.
- WEAGER, Theodore A. (Junior, 1912), Engr., Cleveland Mgr., Carrier Air Conditioning Co., Rockefeller Bldg., Cleveland, O.
- WEAR, Burt C. (Junior, 1905), Youngstown Sheet & Tube Co., and *for mail*, 272 Arlington St., Youngstown, O.
- WEAVER, William G. (Associate-Member, 1915), Lecturer M. E., South African College, Cape Town, S. A.
- WEBBER, Henry (1886), M. E., Finch Mfg. Co., Scranton, and *for mail*, 125 Harper St., Dunmore, Pa.
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- WEBER, Erwin L. F. (1910; Associate-Member, 1914), Engr., Design of Elec., Mech. and Sanitary Equip. of Bldgs., 723-724 Northern Bank Bldg., and 1212 E. Harrison St., Seattle, Wash.
- WEBER, Geo. A. (Associate, 1896), 71 Courtland Ave., Stamford, Conn.
- WEBER, Herman F. (Junior, 1908), Engr., Federal Light & Traction Co., 60 Broadway, and *for mail*, 1751 Park Ave., New York, N. Y.
- WEBER, Herman R. (1914), Ch. Engr., The Economy Furnace Co., 315 German Am. Trust Bldg., Denver, Colo.
- WEBER, O. L. E. (1895; 1905), Pulp and Paper Engr., Forest Products Lab., Madison, Wis.
- WEBER, Peter (1913), Pres., Sloan & Chace Mfg. Co., 6th Ave. and 13th St., Newark, N. J.
- WEBSTER, Fred L. (1912), Mgr. Cal. Dist. Sales Offices, Allis-Chalmers Mfg. Co., Rialto Bldg., San Francisco, Cal.
- WEBSTER, George A. (1914), Supt., Star Brass Mfg. Co., 108 E. Dedham St., Boston, and *for mail*, Acton, Mass.
- WEBSTER, Hosea (1883), Dist. Sales Mgr., Babcock & Wilcox Co., 85 Liberty St., New York, N. Y., and *for mail*, 174 S. Mountain Ave., Montclair, N. J.
- WEBSTER, Lawrence B. (1910; Associate-Member, 1914), Secy., Treas., The West. Ohio Ry. Co., and *for mail*, care of Mandelbaum, Wolf & Lang, 1001 Hippodrome Bldg., Cleveland, O.
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- WEBSTER, William Ralph (1911), Ch. Draftsman, Cambria Steel Co., Johnstown, and *for mail*, 44 Erie St., Westmont, Johnstown, Pa.
- WEBSTER, William Reuben (1893; 1907), Second V. P., Genl. Supt., Bridgeport Brass Co., and *for mail*, 208 Brooklawn Ave., Bridgeport, Conn.
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- WEGENER, Francis A. (Junior, 1915), Asst. M. M., Welsbach Co., and *for mail*, 842 Monmouth St., Gloucester City, N. J.
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- WEICHERT, Arnold E. (1907), 54 Cleveland Terrace, Bloomfield, N. J.
- WEICK, Charles W. (1901), Asst. Prof. in Industrial Arts, Teachers College, Columbia Univ., and 507 W. 124th St., New York, N. Y.
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- WEIGEL, Albert C. (Associate-Member, 1914), Sales Mgr., The Walsh & Weidner Boiler Co., and 4405 Alabama Ave., St. Elmo, Chattanooga, Tenn.
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- WEINSHANK, Theodore (1906), Mgr., Warren Webster & Co., 821 Hume Mansur Bldg., and 2341 N. Delaware St., Indianapolis, Ind.
- WEINTZ, Louis J. (Junior, 1912), Mill Supt., N. J. Zinc Co., Ogdensburg, Sussex Co., N. J.
- WEIR, Silas E. (1914), Wks. Mgr., Am. Blower Co., 1400 Russell St., Detroit, Mich.
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- WEISS, Herbert A. (Junior, 1915), Asst. Prof. Drawing, Ga. Sch. of Tech., and 19 W. Linden St., Atlanta, Ga.
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- WELCHANS, Bertram G. (1914), M. E., Charge Mfg. and Mch. Design., Stanley G. Flagg & Co., and *for mail*, 412 High St., Pottstown, Pa.
- WELD, Alfred O. (1913), M. E., George A. Weld Co., 79 Milk St., Boston, and *for mail*, 285 Washington St., Winchester, Mass.
- WELD, Lydia G. (Associate-Member, 1916), Eng. Drawing Rm., Newport News Shipbuilding & Dry Dock Co., and *for mail*, 5308 Huntington Ave., Newport News, Va.
- WELFORD, P. G. (Junior, 1915), Hyatt Roller Bearing Co., Harrison, and *for mail*, 16 Bernside St., Upper Montclair, N. J.
- WELLINGTON, J. W. (1912), Factory Mgr., The Mutual Motors Co., and 402 First St., Jackson, Mich.

- WELLMAN, Samuel T. (1881), Manager, 1885-1888; Vice-President, 1896-1898; President, 1901; Life Member; Chairman, Wellman-Seaver-Morgan Co., and *for mail*, 1900 E. 90th St., Cleveland, O.
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- WELLS, Edward C. (1904), The Platt Iron Wks. Co., and *for mail*, 40 W. Great Miami Blvd., Dayton, O.
- WELLS, Frank O. (1903), Pres., Wells Bros. Co., and *for mail*, Box 334, Greenfield, Mass.
- WELLS, Frederick L. (1892), 101 S. Clinton St., Chicago, Ill.
- WELLS, G. A. (1905), 149 Broadway, New York, and *for mail*, Larchmont, N. Y.
- WELLS, J. Barnard (Junior, 1909), Office Mgr., R. B. Guernsey & Co., 436 Rialto Bldg., San Francisco, and *for mail*, 44 Oak Vale Ave., Berkeley, Cal.
- WELLS, J. Leland (1885), Cons. Engr., 245 W. 34th St., New York, and *for mail*, Amityville, L. I., N. Y.
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- WELLS, Robert G. (1909), The Steel Co. of Canada, Ltd., Hamilton, Ont., Canada.
- WELLS, Walter F. (1914), V. P., Genl. Mgr., Edison Elec. Ill. Co. of Brooklyn, 360 Pearl St., Brooklyn, N. Y.
- WELLS, William H. (1914), Supt., M. E., The George W. Blabon Linoleum Co., Nicetown, Philadelphia, and *for mail*, 121 E. Cliveden Ave., Germantown, Philadelphia, Pa.
- WENDELL, Henning G. (1912), Dist. Mgr., Asbestos Protected Metal Co., 234-236 Holbrook Bldg., San Francisco, and 685 Santa Ray Ave., Oakland, Cal.
- WENDLAND, Charles F. (1914), Pres., Mgr., Cons. Engr., C. F. Wendland Engrg. & Constr. Co., 61-63 Wooster St., New York, N. Y.
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- WENTZELL, Horace R. (Junior, 1914), Production Engr., Curtiss Motor Co., Buffalo, and *for mail*, 609 Driving Park Ave., Rochester, N. Y.
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- WERNER, Philip J. (Junior, 1915), Inspr. Engrg. Materials, The Panama Canal, Washington, D. C., and *for mail*, 5416 Trinity Pl., W., Philadelphia, Pa.
- WERST, Charles W. (1909), 5618 Baltimore Ave., Philadelphia, Pa.
- WESCHLER, George A. (1916), Assoc. Prof. M. E., The Catholic Univ. of Am., and *for mail*, 1243 Monroe St., N. E., Washington, D. C.
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- WEST, Arthur (1902), Vice-President, 1907-1909; Mgr. Power Dept., Bethlehem Steel Co., South Bethlehem, and cor. Church and Centre Sts., Bethlehem, Pa.
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- WESTCOTT, Valorus S. (1910), Mech. Supt., J. & P. Coats, Inc., and *for mail*, 644 Main St., Pawtucket, R. I.
- WESTERFIELD, George S. (Junior, 1903), So. Mgr., Dist. Mgr., Hooven, Owens, Rentschler Co., Warren Webster & Co., 323 Chronicle Bldg., Houston, Tex., and 326 Hennen Bldg., New Orleans, La.; also, cor. Milan and McGregor Sts., Houston, Tex.
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- WESTINGHOUSE, H. Herman (1884), Manager, 1889-1892; Vice-President, 1904-1906; Life Member; V. P., Westinghouse Air Brake Co., 165 Broadway, New York, N. Y.
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- WESTON, Frederick W. (Associate, 1907), Rep., Baldwin Loco. Wks., Stand. Steel Wks. Co., 50 Church St., and 26 W. 48th St., New York, N. Y.
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- WHEELER, Schuyler S. (1899), Pres., Crocker-Wheeler Co., Ampere, and res., Bernardsville, N. J.
- WHEELER, Seth (1894), Pres., A. P. W. Paper Co., Albany, and Castleton, N. Y.
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- WHEELHOUSE, Sidney H. (Associate, 1914), Mgr. Gas Furnace Dept., Columbus Htg. & Vent. Co., Columbus, O.
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- WHILDIN, William G. (1912), Supt. Inside Div., Lehigh Coal & Navigation Co., Lansford, Pa.
- WHIPPLE, C. Earl (1912), Genl. Mgr., Treas., N. Y. Central Iron Wks. Co., Hagerstown, Md.
- WHIPPLE, William (1905; 1916), Supt., Cinclare Central Factory, Cinclare, La.
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- WHITE, Edward F. (1891), Cons. Engr., Sulphur Plants, and Sand Lime Brick Plants, Pres., Rutland Mfg. Co., Rutland, Vt.
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- WHITTED, Col. Thomas B. (1900; 1903; 1909), M. E., Realty Bldg., and 706 E. Blvd., Charlotte, N. C.
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- WINGO, Richard T. (1910), Pres., Superior Mch. & Engrg. Co., 51-53 Fort St., E., and *for mail*, 43 Euclid Ave., E., Detroit, Mich.
- WINSHIP, W. E. (1908), 612 W. 112th St., New York, N. Y.

- WINSOR, Paul (1910), M. and E. E., Ch. Engr., Boston Elev. Ry. Co., 101 Milk St., Boston, and Weston, Mass.
- WINTER, James M. (Associate-Member, 1915), Steam Boiler Insp., The Hartford Steam Boiler Insp. & Ins. Co., 100 William St., New York, and *for mail*, 435 E. 8th St., Brooklyn, N. Y.
- WINTERROWD, William H. (Junior, 1907), Asst. Ch. M. E., Canadian Pac. Ry., and *for mail*, 277 Hingston Ave., Montreal, Que., Canada.
- WINTHER, Chas. A. G. (1897; 1900), Pres., Mgr., The Chas. A. G. Winther Co., Inc., 85 High St., Boston, and 122 Highland Rd., West Somerville, Mass.
- WINTON, Alexander (1913), Pres., Winton Motor Car Co., Cleveland, O.
- WINTZER, Rudolph (1908), 687 Farwell Ave., Milwaukee, Wis.
- WIPPERMANN, William (Junior, 1913), Chilton, Wis.
- WISCHMEYER, Carl (Associate-Member, 1913), Asst. Prof. Drawing and Mch. Design, Rose Poly. Inst., and *for mail*, 1840 N. 9th St., Terre Haute, Ind.
- WISHART, William D. (1913), M. M., Bausch & Lomb Optical Co., 635 St. Paul St., and 55 Tacoma St., Rochester, N. Y.
- WISNER, George M. (1907), Ch. Engr., Chicago Drainage Canal, 900 S. Michigan Ave., Chicago, Ill.—
- WITHINGTON, Sidney (Junior, 1908), Asst. Engr., McHenry & Murray, 254 Huguenot St., New Rochelle, N. Y., and *for mail*, 35 Bay State Rd., Boston, Mass.
- WITHROW, Paul C. (1914), M. E., Denver & Rio Grande R. R. Co., and *for mail*, 1579 Milwaukee St., Denver, Colo.
- WOLCOTT, Henry A. (1897), M. and C. E., West Hartford, Conn.
- WOLDENBERG, I. (Junior, 1903), Ch. Engr., Ingersoll-Rand Co., 165 Queen Victoria St., London, E. C., and 22 Cautley Ave., S. S., Clapham Common, London, S. W., England.
- WOLF, Otto C. (1889), Engr., Arch., 511-512 Denckla Bldg., and 1706 Master St., Philadelphia, Pa.
- WOLF, Robert B. (1913), Mgr. of Mfg., Burgess Sulphite Fibre Co., and *for mail*, 128 Prospect St., Berlin, N. H.
- WOLFE, Elvin A. (1912), Supt., Penn-Allen Cement Co., Nazareth, Pa.
- WOLFE, Henry G. (1914), Asst. Leading Mech. Draftsman, The N. Y. Edison Co., Irving Pl. and 15th St., New York, and 11 Wooderest Ave., White Plains, N. Y.
- WOLFF, John (1915), M. E., Cleveland Elec. Ill. Co., Illuminating Bldg., Cleveland, O.
- WOLFF, Salomon (1914), Dist. Mgr., De Laval Steam Turbine Co., 629 Peoples Gas Bldg., and 5538 S. Park Ave., Chicago, Ill.
- WOLFGANG, William H. (Junior, 1915), Designer, Natl. Supply Co., 1225 Greenwood Ave., Toledo, O.
- WOLFNER, Ira W. (Junior, 1915), Asst. Treas., Natl. Cooperage & Woodware Co., and 223 Rebecca Pl., Peoria, Ill.
- WOOD, Alan A. (Junior, 1914), Engrg., Sales, Norman B. Livermore, San Francisco, and *for mail*, 1008 Merced St., Berkeley, Cal.
- WOOD, Albert C. (1894; 1900; 1904), Cons. M. E., Pa. Bldg., and N. W. cor. 52d St. and Gainor Rd., Philadelphia, Pa.
- WOOD, Arthur J. (1898; 1907), Assoc. Prof. Railroad M. E., Pa. State College, State College, Pa.
- WOOD, Augustus (1901), Ch. Draftsman, Niles Tool Wks. Co., and 306 S. D St., Hamilton, O.
- WOOD, Benjamin F. (1897; 1907), V. P., Ch. Engr., The United Gas & Elec. Corp., 61 Broadway, New York, N. Y., and *for mail*, 19 Clinton Ave., Maplewood, N. J.

- WOOD, Dennistoun (1914), Asst. M. E., Engr. of Tests, So. Pac. Co., 1180 Flood Bldg., San Francisco, and *for mail*, 429 Forest Ave., Palo Alto, Cal.
- WOOD, Edward R., Jr. (Junior, 1900), Life Junior; Sales Mgr., R. D. Wood Co., 400 Chestnut St., and *for mail*, 245 S. 17th St., Philadelphia, Pa.
- WOOD, Ernest H. (1913), M. E., East. Malleable Iron Co., and *for mail*, 2300 Monroe St., Wilmington, Del.
- WOOD, Erwin E. (1900), Life Member; Salesman, Jones & Lamson Mch. Co., and *for mail*, 208 Philadelphia Ave., E., Detroit, Mich.
- WOOD, Frank J. (1899), Ch. Engr., Marx & Rawolle, 9 Van Brunt St., and *for mail*, 25 Clinton St., Brooklyn, N. Y.
- WOOD, Fred L. (1916), Supt., The Aeolian Co., and *for mail*, 175 Elm St., Meriden, Conn.
- WOOD, Frederick W. (1913), Pres., Md. Steel Co., Sparrows Point, and *for mail*, Keyworth Ave., Park Heights, Baltimore, Md.
- WOOD, Geo. R. (1906), E. and M. E., Berwind-White Coal Min. Co., 1120 Arcade Bldg., and Racquet Club, Philadelphia, Pa.
- WOOD, Gleason (1914), Asst. Supt., Waltham Watch Co., and *for mail*, 87 Maple St., Waltham, Mass.
- WOOD, Harry P. (1914), Operating Engr., Edison Elec. Ill. Co. of Brooklyn, 360 Pearl St., Brooklyn, N. Y.
- WOOD, Henry M. (Associate, 1913), Lodge & Shipley Mch. Tool Co., 3055 Colerain Ave., Cincinnati, O.
- WOOD, Kenneth F. (Associate, 1899), Supt., Sayles' Bleacheries, Saylesville, and 23 Maynard St., Pawtucket, R. I.
- WOOD, Robert (1915), Wks. Mgr., Nathan Mfg. Co., 101 Park Ave., New York, and *for mail*, 15 Hawthorne St., Brooklyn, N. Y.
- WOOD, Stanley V. (Associate-Member, 1913), 334 S. Franklin St., Wilkes-Barre, Pa.
- WOOD, Thomas C. (1909; 1916), U. S. Inspr., The Panama Canal of Washington, D. C., 1450 Winona Ave., Chicago, Ill.
- WOOD, Walter (1880; 1890), R. D. Wood & Co., 400 Chestnut St., and 1620 Locust St., Philadelphia, Pa.
- WOOD, William H. (1889), Engr., Bldr. Spec. Mchy., 10 South Ave., and 43 Washington St., Media, Pa.
- WOOD, William R. (1913), Engr. of Tests, Great No. Ry. Co., and 552 Westminster St., St. Paul, Minn.
- WOOD, Winthrop B. (1914), Asst. Ch. Engr., Joseph Bancroft & Sons Co., Rockford, Wilmington, and *for mail*, 2214 Gilpin Ave., Wilmington, Del.
- WOODARD, Louis A. (1900; 1904), V. P., Genl. Mgr., The William Tod Co., Youngstown, and Boardman, O.
- WOODARD, William E. (1915), Asst. Ch. Engr. Am. Loco. Co., Schenectady, N. Y.
- WOODBURY, C. J. H. (1880), Manager, 1882-1885; Vice-President, 1887-1889; Life Member; Cons. Engr., 45 Milk St., Boston, and *for mail*, 51 Baltimore St., Lynn, Mass.
- WOODMAN, George A. (1911), Genl. Mgr., Natl. Car Equip. Co., Ry. Exch., and *for mail*, 6752 Perry Ave., Chicago, Ill.
- WOODMAN, Joseph C. (Junior, 1914), Supt. of Constr., Decarie Incinerator Co., 345 McKnight Bldg., and *for mail*, 1808 Colfax Ave., S., Minneapolis, Minn.
- WOODMANSEE, Fay (1911), Cons. Engr., Woodmansee & Davidson, 1048 First Natl. Bank Bldg., Chicago, and 430 18th Ave., Maywood, Ill.

- WOODRUFF, Clarence A. (1912; Associate-Member, 1913), Asst. Genl. Mgr., The New Departure Mfg. Co., and 47 Broadview St., Bristol, Conn.
- WOODS, George E. (1915), Asst. Ch. Engr., Consld. Gas Co. of N. Y., 130 E. 15th St., New York, N. Y.
- WOODS, Mercer H. (Junior, 1912), M. E., Bates Valve Bag Co., Chicago, Ill., and *for mail*, care of Dr. J. R. Woods, Aylmer, W., Ont., Canada.
- WOODS, Samuel H. (Associate-Member, 1915), Asst. Engr. Elec. Div., Genl. Vehicle Co., Inc., Long Island City, N. Y.
- WOODWARD, Arthur H. (1913), Pres., The Internatl. Register Co., and *for mail*, 15 S. Throop St., Chicago, Ill.
- WOODWARD, Sherman M. (1907), Prof. Mech., State Univ. of Ia., Iowa City, Ia.
- WOODWELL, Julian E. (1900; 1908), Cons. Engr., 8 W. 40th St., New York, and 353 Egmont Ave., Mt. Vernon, N. Y.
- WOODWORTH, Joseph V. (Associate-Member, 1914), Cons. Engr. Mfrs.' Rep., Rm. 822, 320 Broadway, New York, and *for mail*, 319 Reid Ave., Brooklyn, N. Y.
- WOODY, Guy V. (Junior, 1911), M. E., Allis-Chalmers Mfg. Co., and *for mail*, University Club of Milwaukee, Milwaukee, Wis.
- WOOLLEY, Harold O. (1909; Associate-Member, 1915), M. E., Power Spec. Co., and *for mail*, 7 Clinton St., Dansville, N. Y.
- WOOLSON, Harry T. (1907), Truck Engr., Packard Motor Car Co., and 191 Delaware Ave., Detroit, Mich.
- WOOLSON, Ira H. (1896), Cons. Engr., The Natl. Bd. of Fire Underwriters, 76 William St., New York, N. Y.
- WOOLSON, Orosco C. (1886), Constr. Engr., Contr., 39 Cortlandt St., New York, N. Y., and Newark, N. J.
- WOOLSON, Wm. D. (Associate, 1897), Treas., Jones & Lamson Mch. Co., Springfield, Vt.
- WORBOIS, Homer L. (Junior, 1914), Gas Tractor Instr., Designer, Sweeney Auto. Sch. Co., 1112-1114 E. 15th St., and *for mail*, 1101 Bales Ave., Kansas City, Mo.
- WORCESTER, H. E. (Associate, 1903), Supt., Revere Sugar Refinery, East Cambridge, and *for mail*, 10 Kirkland Rd., Cambridge, Mass.
- WORDEN, Euclid P. (1899; 1902), Mgr., Fred. M. Prescott Steam Pump Co., and *for mail*, 571 Summit Ave., Milwaukee, Wis.
- WORKER, Joseph G. (1914), Mgr. Stoker Div., Westinghouse Elec. & Mfg. Co., East Pittsburgh, and *for mail*, 5722 Baum Blvd., Pittsburgh, Pa.
- WORTH, Charles C. (1908), Asst. Supt. Constr., The N. Y. Edison Co., Irving Pl. and 15th St., New York, N. Y.
- WORTHINGTON, Charles C. (1882), Manager, 1883-1886; Manwalamink, Shawnee-on-Delaware, Pa.
- WORTHINGTON, Edward H. (Associate-Member, 1914), Sales Engr., Power Spec. Co., Harris Trust Bldg., Chicago, Ill.
- WOTHERSPOON, William L. (1914), Cons. M. and E. E., Canadian Min. & Exploration Co., 43 Exchange Pl., New York, N. Y.
- WRAITH, William (1903), Internatl. Smelting & Refining Co., Kearns Bldg., Salt Lake City, Utah.
- WRAY, Alfred B. (Associate-Member, 1915), Asst. Sales Mgr., Morse Chain Co., and *for mail*, 111 Orchard Pl., Ithaca, N. Y.
- WRIGHT, Calvin S. (Junior, 1907), Genl. Mgr., French Broad Mfg. Co., P. O. Box 82, and 242 Montford Ave., Asheville, N. C.
- WRIGHT, Ernest N. (1890), 691 Huntington Terrace, Pasadena, Cal.
- WRIGHT, Howard G. (1915), Supt. of Constr., Anaconda Copper Min. Co., and *for mail*, Box 375, Anaconda, Mont.

- WRIGHT, Paul (1915; 1915), Sales Engr., Column Dept., Am. Cast Iron Pipe Co., Birmingham, Ala.
- WRIGHT, Reginald A. (1907), M. E., 701 Citizens Bldg., Cleveland, O.
- WRIGHT, Ross P. (1911), Secy., Treas., Reed Mfg. Co., and *for mail*, 235 W. 6th St., Erie, Pa.
- WRIGHT, Roydon V. (1907), Managing Editor, Ry. Age Gazette, Woolworth Bldg., New York, N. Y., and *for mail*, 192 N. Walnut St., East Orange, N. J.
- WRIGHT, Stanley (Junior, 1913), Busch-Sulzer Bros.-Diesel Eng. Co., St. Louis, Mo.
- WRIGHT, Wm. Q. (1908), Min. and C. E., 727 Merchants Exch. Bldg., San Francisco, and Sausalito, Cal.
- WURDACK, Hugo (1914), Pres., The Light & Development Co. of St. Louis, 750 Ry. Exch. Bldg., St. Louis, Mo.
- WURTS, Edward V. (Associate, 1897), M. E., 705 Kinney Bldg., Newark, and 131 Park St., East Orange, N. J.
- WYATT, Edgar W. (1910), 64 Passaic St., Hackensack, N. J.
- WYER, Samuel S. (1904; 1911), Cons. Engr., Harrison Bldg., Columbus, O.
- WYLIE, Howard M. (Junior, 1912), The Bishop-Babcock-Becker Co., 439 Lafayette St., and *for mail*, 830 West End Ave., New York, N. Y.
- WYMAN, Arthur H. (Junior, 1909), Sales and Estimating Engr., Allis-Chalmers Mfg. Co., and 560 32d St., Milwaukee, Wis.
- WYMAN, Dwight M. (Junior, 1915), Job Supt., Aberthaw Constr. Co., 27 School St., Boston, Mass., and Whitneyville, Conn.
- WYNKOOP, Hubert S. (1908), E. E., Dept. Water Supply, Gas and Elec., 2329 Municipal Bldg., New York, and *for mail*, 1574 50th St., Brooklyn, N. Y.
- WYNNE, John H. (1914), Mgr., Montreal Loco. Wks., Ltd., 703 Dominion Express Bldg., Montreal, and 4217 Western Ave., Westmount, Que., Canada.
- WYNNE, Thomas A. (1915), V. P., Treas., Indianapolis Light & Heat Co., and R. R. 19, Indianapolis, Ind.
- YARDLEY, Ralph W. E. (Associate-Member, 1915), Engr., Richards, McCarty & Bulford, Hartman Bldg., Columbus, O.
- YARNALL, D. Robert (1903; 1911), M. E., Yarnall-Waring Co., Genl. Mgr., V. P., Nelson Valve Co., Chestnut Hill, Philadelphia, Pa.
- YARROW, Alfred F. (Honorary, 1914), Homestead, Hindhead, Surrey, England.
- YARYAN, Homer T. (1892), V. P., The Yaryan Naval Stores Co., Toledo, O.
- YATES, Preston K. (1914), Cons. Engr., Rm. 1045, 120 Broadway, New York, N. Y.
- YATES, Richard L. (Junior, 1907), Asst. Sales Mgr., The Platt Iron Wks. Co., and *for mail*, 108 Oxford Ave., Dayton, O.
- YATES, Sheldon S. (1912; Associate-Member, 1915), Cons. Engr., Yates & Yates, Rm. 1045, 120 Broadway, New York, N. Y., and Spring Lane, Englewood, N. J.
- YEAGER, Andrew J. (Associate-Member, 1915), Junior Partner, J. F. Witmer Co., Dun Bldg., Buffalo, N. Y.
- YEOMANS, Lucien I. (1910), Industrial Engr., Rm. 1824, 72 W. Adams St., and 912 Winona Ave., Chicago, Ill.
- YERANCE, William B. (1894), Cons. Engr., Operator for Pub. Utilities, 128 Broadway, New York, N. Y., and 418 Center St., South Orange, N. J.
- YERZLEY, William A. (1912), Secy., Engr., Nagle Re-Blade Knife Co., and *for mail*, 39-41 S. 6th St., Newark, N. J.
- YEWDALE, Francis M. (Associate-Member, 1915), M. E., Wm. Steele & Sons Co., 1600 Arch St., and *for mail*, 5946 N. 13th St., Philadelphia, Pa.

- YODER, Jacob H. (Junior, 1912), Supvr. Apprentice Schs., Pa. R. R. Lines East of Pittsburgh, and *for mail*, Box 383, Altoona, Pa.
- YODER, Thomas M. (Associate, 1914), Salesman, Erie City Iron Wks., 1360 Woolworth Bldg., and Apt. 5 F, 354 W. 55th St., New York, N. Y.
- YORK, H. W. (1894), Cons. Engr., Am. Smelting & Refining Co., 120 Broadway, New York, and 121 Bay 26th St., Bensonhurst, L. I., N. Y.
- YORK, John J. (1910), Ch. Engr., St. Lawrence Sugar Refining Co., Montreal, and *for mail*, 775 Notre Dame St., Maisonneuve, Que., Canada.
- YORK, L. D. (1889), Pres., Portsmouth St. R. R. & Light Co., Portsmouth, O.
- YORK, Robert (1901; 1908; 1911), V. P., Treas., York Lumber & Mfg. Co., V. P., Grant Lumber Co., and 1215 Sledge Ave., Memphis, Tenn.
- YORKSTON, John E. (1912), Engr. in Charge Drafting Dept., Genl. Elec. Co., and *for mail*, 140 Third Ave., Schenectady, N. Y.
- YOUNG, Chas. D. (1902; 1910), Engr. of Tests, Pa. R. R., Altoona, Pa.
- YOUNG, Emanuel J. (Junior, 1914), Foreman Elec. Repair Shop, Cambria Steel Co., and *for mail*, 528 Franklin St., Johnstown, Pa.
- YOUNG, Gilbert A. (1906), Head of Dept. M. E., Purdue Univ., and *for mail*, 739 Owen St., Lafayette, Ind.
- YOUNG, John M. (Associate-Member, 1915), M. E., Otis Elev. Co., Northland and Girder Sts., Buffalo, N. Y.
- YOUNG, John Mason (1902; 1910), Dean of Engrg., College of Hawaii, Cons. Engr., Honolulu, Hawaii.
- YOUNG, John P. (1899; 1906), Pres., Reinforced Tile Roof Co., Box 43, and 1510 Fifth Ave., Youngstown, O.
- YOUNG, John T. (1900; 1908), First V. P., Genl. Mgr., Grand Rapids Gas Light Co., and 255 Union Ave., S., Grand Rapids, V. P., Muskegon Traction & Ltg. Co., Muskegon, Mich.
- YOUNG, William A. (1901; 1905; 1906), Ch. Draftsman, Pawling & Harnischfeger Co., and *for mail*, 306 21st Ave., Milwaukee, Wis.
- YOUNGER, John (1915), Ch. Engr. Truck Dept., Pierce-Arrow Motor Car Co., Buffalo, N. Y.
- ZABRISKIE, W. Howard (Junior, 1916), Foreman, Stand. Oil Co. of N. Y., Long Island City, and *for mail*, Glen Cove, L. I., N. Y.
- ZACH, Louis M. (Junior, 1912), P. O. Box 116, Salt Lake City, Utah.
- ZACHERT, Arthur R. (1910; 1915), Ch. of Production Dept., The Babcock & Wilcox Co., and *for mail*, 86 W. 8th St., Bayonne, N. J.
- ZANKE, George J. (Associate-Member, 1915), Dist. Sales Mgr., Am. Engrg. Co., 829 Marquette Bldg., Chicago, Ill.
- ZAPP, Louis M. (Junior, 1906), A. L. Drum & Co., 624 Am. Trust Bldg., and 4619 Magnolia Ave., Chicago, Ill.
- ZEH, Edmund W. (1915), Secy., Treas., Zeh & Hahnemann Co., Ave. A and Vanderpool St., and 93 Elizabeth Ave., Newark, N. J.
- ZEHNDER, Chas. H. (1890), Coal Operator, Iron Mfr., Rm. 1648, 120 Broadway, New York, N. Y., and Allenhurst, N. J.
- ZEIGER, Kenneth G. (Junior, 1914), Draftsman, United Verde Copper Co., Clarkdale, and Jerome, Ariz.
- ZELLER, Richard (Junior, 1914), Factory Mgr., The Egyptian Lacquer Mfg. Co., Rahway, N. J., and 595 West End Ave., New York, N. Y.
- ZIEGLER, Leslie I. (1914), Mgr. Milling Mchy. Dept., Nurdyke & Marmon Co., and Columbia Club, Indianapolis, Ind.
- ZILEN, Victor W. (Associate, 1913), Engrg. Dept. Car Equip., I. R. T. Co., 98th St. and Third Ave., New York, and *for mail*, 33 N. Briggs Ave., Richmond Hill, L. I., N. Y.

- ZIMMERMAN, Alfred W. (1913), Pres., Cons. Engr., Zimmerman Engrg. & Supply Co., and 3504 Fairfield Ave., Fort Wayne, Ind.
- ZIMMERMAN, Oliver B. (1905), Internatl. Harvester Corp., Chicago, and *for mail*, 324 S. Ashland Ave., La Grange, Ill.
- ZIMMERMANN, John E. (Junior, 1907), Mem. of Firm, Day & Zimmermann, 611 Chestnut St., Philadelphia, and Rydal, Pa.
- ZIMMERMANN, William F. (1884), V. P., Pittsburgh Testing Lab., 50 Church St., and 135 W. 79th St., New York, N. Y.
- ZOHE, Ludwig A. (1903; 1904), Solvay Process Co., and *for mail*, 309 E. Kennedy St., Syracuse, N. Y.
- ZOUCK, George H. (Junior, 1914), 314 York St., Hanover, Pa.
- ZOWSKI-ZWIERZCHOWSKI, S. J. (1910), Prof. M. E., Univ. of Mich., 327 New Engrg. Bldg., and 2006 Washtenaw Ave., Ann Arbor, Mich.
- ZUGELTER, George E. (Junior, 1916), Tool Designer, The Dayton Engrg. Labs. Co., Dayton, and 207 Elliott Ave., Arlington Heights, Cincinnati, O.
- ZWOYER, Ellsworth B. A. (1914), Zwoyer Fuel Co., Rm. 2507, 60 Wall St., New York, N. Y., and 45 State St., Perth Amboy, N. J.

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O'Brien, D. J. (Jr.), Ch. Oper. Engr., Birmingham Ry., L. & P. Co.
Roueche, W. L., Supt. Shops, Sales Engr., Crane Co.
Ryding, H. C., Asst. to V. P. Tenn. C., I. & R. R. Co.
Salmon, F. W., C. and M. E., 526 N. 20th St.
Turner, F. C., Salesman, So. Wheel Co.
Van Keuren, E. B. (Jr.), M. E., 1905 Am. Trust Bldg.
Wright, P., Sales Engr. Column Dept., Am. Cast Iron Pipe Co.
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Owens, C. T., Steam Engrg. Dept., Tenn. C., I. & R. R. Co.
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- Mayer.**—Wilhelm, D. B., M. E., Gray Eagle Reduction Co.

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 Jourdin, W. W., Ch. Engr. Power Plant, Inspiration Consltd. Copper Co.,
 Internatl. Smelting Co.
- Morenci.**—DuMoulin, W. L., Supt., Morenci Water Co.
- Tucson.**—Hawkins, G. W., Office Mgr., Chas. C. Moore & Co. Engrs.
 Hendry, W. S., Instr. Mech. Arts, Univ. of Ariz.
 Henry, W. W., Prof. M. E., Univ. of Ariz.
 King, R. S., M. E. Dept., Univ. of Ariz.
- Warren.**—McGregor, A. G.

ARKANSAS

- Arkadelphia.**—Longino, J. L., Secy., Engr., Ark. Light & Power Co.
- Fayetteville.**—Wilson, B. N., Prof. M. E., Univ. of Ark.
- Fort Smith.**—Johnstone, F. W., Fort Smith & West. R. R. Co.
- Hot Springs.**—Fordyce, J. R., Cons. Engr., Box 346.
- Little Rock.**—Rose, C. E., V. P., Treas., Ark. Cold Storage Co.
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- Berkeley.**—Dyer, W. J., Cons. Engr., Channing Apts.
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 Langille, H. B., Asst. Prof. Mch. Design and Mech. Drawing, Univ. of Cal.
 Le Conte, J. N., Prof. Engrg. Mech., Univ. of Cal.
 Raber, B. F., Assoc. Prof. M. E., Univ. of Cal.
 Sibley, R., Prof. M. E., Univ. of Cal.
- Brentwood Park.**—Rodgers, M. K., Min. Engr., Sawtelle R. F. D. 1,
 Box 92.
- Burlingame.**—Kraus, J. (Jr.).
- Chino.**—Edmunds, L. L., Asst. Factory Supt., Am. Beet Sugar Co.
- Davis.**—Davidson, J. B., Prof. Agri. Engrg., Univ. of Cal.
- Drum, Placer Co.**—Simon, C. S. (Jr.), Machinist, Pac. Gas & Elec. Co.
- East Oakland.**—Northcroft, F. J. S. (Jr.), Union Gas Eng. Co.
- Hamilton City.**—Feicht, E. R. (Jr.), Ch. Engr., Sacramento Valley Sugar
 Co.
- Kennett.**—Kremers, C. H. (Jr.), Constr. Engr., Mammoth Copper Min. Co.
- Long Beach.**—Rollow, J. G., Combustion Engr., So. Cal. Edison Co.
 Voorhees, A. C. (Jr.), Draftsman, Charge Gov. Div., Cal. Shipbuilding Co.
- Los Angeles.**—Barre, H. A., M. and E. E., Pac. L. & P. Corp.
 Baruch, M. (Jr.), M. E., Llewellyn Iron Wks.
 Baum, R. S. (Jr.), Mgr., Union Gas Eng. Co.
 Bell, W. L., Pres., Fulton Eng. Wks.
 Breer, C. (Jr.), Acme Elec. Auto Wks.
 Brett, H. E., Cons. Engr., 114 N. Spring St.
 Burton, S. E., Ch. Engr. Mech. Dept., Los Angeles Co.
 Campbell, T. D., Pres., Thomas D. Campbell & Co.
 Carr, J. D., 2506 W. 8th St.
 Catland, R. O. (Jr.), Draftsman, Griffith Mch. Wks.
 Clark, H. H., Mgr., Chas. C. Moore & Co. Engrs.
 Comstock, C. W., Genl. Agt., Continental Casualty Co.

CALIFORNIA, Los Angeles (Continued).

- Davisson, W., Ch. Engr., Rancho La Brea Oil Co.
 Doolittle, H. L. (Jr.), Asst. Constr. Engr., So. Cal. Edison Co.
 Drew, W. N. (Jr.), Chem. Engr., West. Precipitation Co.
 Faulkner, D. S., Union Tool Co.
 Finkle, F. C., Cons. Engr., 448-449 I. W. Hellman Bldg.
 Fischer, F. J., Ch. M. E., Bureau of Water Wks. and Supply.
 France, L. E. (Jr.), 1008 Santee St.
 Francis, I. J., Sales Agt., John A. Roebling's Sons Co.
 Gilbert, L. D., M. E., 704-705 I. W. Hellman Bldg.
 Griffith, L. M., Mgr., Co-Partner, Griffith Mch. Wks.
 Gump, W. B. (Jr.), M. and E. E., 360 W. 52d Pl.
 Haekstaff, J. D. (Jr.), Genl. Mgr., So. Cal. Gas Co.
 Hamilton, W. B., Smith Booth Usher Co.
 Harris, F. W., Cons. Engr., 1029 Higgins Bldg.
 Hitchcock, H. S., Treas., Baker Iron Wks.
 Hunt, E. A. (Jr.), Hunt Engrg. & Sales Agency.
 McGwire, C. H., Asst. Ch. Engr., Bd. of Pub. Utilities.
 Noble, W. A. E., Genl. Mgr., United Casting Co.
 Repath, C. H., Repath & McGregor.
 Rhodes, G. H. (Jr.), Bishop & Co.
 Root, O. J., Moline Auto. Co.
 Royer, T. J., Asst. Supt. Gen. and Trans., Pac. L. & P. Corp.
 Schmidt, A. A., Ch. M. E., West. Precipitation Co.
 Schwab, G. (Jr.), P. O. Box 1497.
 Sherman, W. D., Pres. and Cons. Engr., Industrial Engrg. Co.
 Smith, W. W., Sales Engr., Chas. C. Moore & Co. Engrs.
 Sprado, R., Cons. Engr., Sprado Engrg. Co.
 Suter, J. H., Part Owner, Advice Mch. & Mfg. Co.
 Tracy, H. N., Engr. and Prop., H. N. Tracy Co.
 Warrington, J. N., 617 S. Grand Ave.
 Wartenweiler, O., Mgr., Otto Wartenweiler & Co.
 Weeks, P., M. E., 117 S. Mariposa Ave.
- Oakland.**—Brown, J. Q., V. P., Genl. Mgr., Nev. Val. Power Co.
 Gorham, W. R. (Jr.), Supt., Gorham Engrg. Co.
 Hepburn, H. M., 465 Fairmount Ave.
 Ross, F. E., Supt., Partner, Gilro Mch. Co.
- Oilfields, Fresno Co.**—Durward, E. S., Asst. Supt., Cal. Oilfields, Ltd.
- Oroville.**—Leeson, C. G., Mgr. Dredging Dept. Oro W., L. & P. Co.
- Oxnard.**—Meserole, K. A. (Jr.), Engrg. Dept., Am. Beet Sugar Co.
 Taddiken, J. F., Jr. (Jr.), Am. Beet Sugar Co.
- Pasadena.**—Adams, W. H., Prof. M. E., Throop College of Tech.
 Clapp, W. H., Assoc. Prof. Mch. Design and Mech., Throop College of Tech., Engr., with Geo. A. Damon, Pacific Coast Rep. of Bion J. Arnold Co., Los Angeles.
 Koiner, C. W., Genl. Mgr., E. and M. Engr., Pasadena Municipal Light & Power Plant.
 Pease, F. G., Astronomer, Charge of Design, Mt. Wilson Solar Observatory.
 Wright, E. N., 691 Huntington Terrace.
- Plittsburg.**—Cole, C. S., Secy., Treas., Columbia Steel Co.
- Point Loma.**—Tyberg, O.
- Pomona.**—Sederholm, E. T., Cons. Engr., 495 Jefferson St.
- Riverside.**—Mills, C., 404 W. 12th St.
- Sacramento.**—Blec, H. H., Asst. M. E., Dept. of Engrg., State of Cal.
 Browning, C., Jr., Foreman of Lab., So. Pacific Co.

CALIFORNIA, Sacramento (Continued).

- Givan, A., Cons. Engr., 1525 K St.
 Maddock, G. F., Sutter Basin Co.
 Schoenky, O. B., Supt. of Shops, So. Pacific Co.
 Simonson, G. M. (Jr.), Elec. Draftsman, State Dept. of Engrg.

San Diego.—Bacon, J. L., Rm. 5, City Hall.**San Francisco**.—Armes, G. A., Engr-in-Ch., Union Iron Wks. Co.

- Baum, F. G., Cons. Engr., 1901-1902 Hobart Bldg.
 Bayley, G. L., Ch. M. and E. E., Panama-Pac. Internatl. Exposition Co.
 Beatie, C. E. (Jr.), Engr., Simplex Refining Co.
 Braun, C. F., Pres., C. F. Braun & Co.
 Britton, J. A., V. P., Genl. Mgr., Pac. Gas & Elec. Co.
 Bruff, C. E., Bradley, Bruff & Labarthe, 1000 Hobart Bldg.
 Burnett, E. E., Judson Mfg. Co.
 Carlyle, A. R., Engr., Union Oil Co. of Cal.
 Cattell, W. A., Cons. Engr., Foxcroft Bldg.
 Connor, H. R. (Jr.), M. E., Meese & Gottfried Co.
 Cooper, F. F., Genl. Mgr., Golden State & Miners' Iron Wks.
 Cory, H. T., Cons. Engr., 802 Nevada Bank Bldg.
 Cranston, R. E., Min. Engr., 437 Holbrook Bldg.
 Crozier, H. W., Engr., Sanderson & Porter.
 Davis, W. J., Jr., Pac. Coast Engr., Genl. Elec. Co.
 Davol, G. K., M. E., 503 Market St.
 Delany, C. H., Pac. Gas & Elec. Co.
 Denny, O., Cons. Engr., 58 Sutter St.
 Dickie, G. W., Cons. Engr., Naval Arch., 24 California St.
 Doble, W. A., Ch. Engr., Pelton Water Wheel Co.
 Dorward, D., Jr., Cons. Engr.
 Dunn, K. G., V. P., Hunt Mirk & Co., Inc.
 Eastman, S. G., West. Sales Mgr., Pratt & Whitney Co.
 Fitzsimmons, J. C., Mgr., Fuel, Gas and Road Oils and Asphaltum Depts.,
 Stand. Oil Co.
 Foley, W. J. (Jr.), M. E., San Francisco Bridge Co.
 Gay, F. W., M. E., J. G. White Engrg. Corp.
 Gibson, A., Cons. Engr., 1022 Haight St.
 Gunn, C. M., 444 Market St.
 Hanscom, W. W., Cons. Engr., 848 Clayton St.
 Hansen, J. H., Mgr., J. H. Hansen & Co.
 Harden, F. W., M. E., North & Stand. Am. Dredging Co.
 Harvey, R. P., West. Sales Agt., Blaw Steel Constr. Co., Concrete Form
 Co., Inc.
 Hays, J. C., Keystone Apts.
 Henes, L. G., Pac. Coast Branch Mgr., Manning, Maxwell & Moore, Inc.
 Henry, G. J., Cons. Hyd. and M. E., 737 Rialto Bldg.
 Hopps, J. H., Cons. Engr., 503 Market St.
 Howard, H. S., Engr., 601 Holbrook Bldg.
 Howe, J. L. (Jr.), Estimator, Salesman, Otis Elev. Co.
 Hoxie, V. W., Marine Dept., Babcock & Wilcox Co.
 Hudson, R. A. (Jr.), Partner, Hunter & Hudson.
 Hurst, G. L., Mgr. Dredging Dept., Union Iron Wks. Co.
 Hutchinson, C. T., Managing Editor, West. Engrg.
 Hutchinson, E. C., Commer. Engr., Pelton Water Wheel Co.
 Jones, E. C., Ch. Engr. Gas Dept., Pac. Gas & Elec. Co.
 Jones, L. B. (Jr.), Asst. Engr. Gas Dept., Pac. Gas & Elec. Co.
 Joslyn, P. L., M. E., Union Iron Wks.
 King, F. S., Dept. Mgr., Natl. Meter Co.
 Kingston, A. (Jr.), Second Lieut., U. S. Marine Corps, Marine Barracks,

CALIFORNIA, San Francisco (Continued).

- Knox, S. L. G., 544 Market St.
 Lardner, H. A., V. P., J. G. White Engrg. Corp.
 Leland, W. E., Cons. Engr., 58 Sutter St.
 McLaren, A. R., Partner, Pac. Gurney Elev. Co.
 Mahon, W. L'E., Engr., Meese & Gottfried Co.
 Markey, H. S., Ch. Engr., City Elec. Co.
 Meredith, W., Partner, Sanderson & Porter.
 Mirk, T., Pres., Hunt, Mirk & Co., Inc.
 Moore, R. S., Treas., Moore & Scott Iron Wks.
 Morrin, T., Cons. M. E., Phelan Bldg.
 Moses, L. L., Cons. Engr., 929 Pine St.
 Murray, W. E., Ch. Engr., West. Sugar Refining Co., and Spreckels Sugar Co., Spreckels.
 Naphtaly, S. L., Pres., Oakland Antioch & East. Ry.
 Noble, P., Pres., Pac. Rolling Mill Co.
 Noyes, W. S., Min. Engr., 818 Mills Bldg.
 Paulsmeier, A. C., V. P., Ch. Engr., Byron Jackson Iron Wks.
 Plant, J. W., Yuba Constr. Co.
 Potbury, A. H., M. E., Robert Dalziel, Jr., 218 First St.
 Ransom, T. W., Cons. Engr., 1104 Merchants Exch. Bldg.
 Reardon, P. H., Pres., Genl. Mgr., Compressed Air & Genl. Mchy. Co.
 Rix, E. A., Pres., Mgr., Rix Compressed Air & Drill Co.
 Rogers, E. A. (Jr.), Pac. Gas & Elec. Co.
 Rowley, R. L. (Jr.), Inspe. Engr., Bd. of Fire Underwriters of Pac.
 Scholefield, C. W. (Jr.), M. E. Pipe Line Dept., Stand. Oil Co.
 Selser, T. W., M. E., Interstate Commerce Com. of U. S. Gov.
 Shattuck, C. H. (Jr.), Engr., C. F. Braun & Co.
 Small, F. W., Steam Dept., Pac. Gas & Elec. Co.
 Small, H. J., Genl. Supt. M. P., So. Pac. Co.
 Stillman, H., M. E., Engr. of Tests, So. Pac. Co.
 Stoddard, E., V. P., Genl. Mgr., Chas. C. Moore & Co. Engrs.
 Stuart, P. R., V. P., Genl. Mgr., Am. Keene Cement Co. of Cal.
 Terwilliger, H. L., Ingersoll-Rand Co.
 Upton, W. B., Cons. Engr., 540 Leavenworth St.
 Varney, F. H., Engr., Pac. Gas & Elec. Co.
 Webster, F. L., Mgr., Cal. Dist. Sales Offices, Allis-Chalmers Mfg. Co.
 Welch, W. M., Engr., Bureau of Mines.
 Wells, J. B. (Jr.), Office Mgr., R. B. Guernsey & Co.
 Wendell, H. G., Dist. Mgr., Asbestos Protected Metal Co.
 Weymouth, C. R., Ch. Engr., Chas. C. Moore & Co. Engrs.
 White, J. W., Jr., Genl. Elec. Co.
 Whitney, H. A., Engr., State R. R. Com.
 Whittlesey, J. T., Engr., Claus Spreckels Bldg.
 Wieland, C. F., Cons. Engr., 1801 Claus Spreckels Bldg.
 Wood, A. A. (Jr.), Engrg. Sales, Norman B. Livermore.
 Wood, D., Asst. M. E., Engr. of Tests, So. Pac. Co.
 Wright, W. Q., Min. and C. E., 727 Merchants Exch. Bldg.

San Mateo.—Whitney, L. D. (Jr.), Mgr., Leslie Salt Refining Co.

San Pablo.—Forsburg, H. A., Genl. Supt. Trunk Lines, Stand. Oil Co. of Cal.

Santa Maria.—Jones, P., Cons. Engr., Pinal Dome Oil & Refining Cos.

Stanford University P. O.—Cross, C. N., Asst. Prof. M. E., Leland Stanford Jr. Univ.

Cutter, L. E., Asst. Prof. M. E., Leland Stanford Jr. Univ.

Durand, W. F., Prof. M. E., Leland Stanford Jr. Univ.

Eckart, W. R., Jr., Prof. M. E., Leland Stanford Jr. Univ.

CALIFORNIA, Stanford University P. O. (Continued).

Lesley, E. P., Asst. Prof. M. E., Leland Stanford Jr. Univ.

Marx, G. H., Prof. Mch. Design, Leland Stanford Jr. Univ.

Stockton.—Domonoske, A. B., Holt Mfg. Co.

Griswold, H. L., M. E., Central Cal. Traction Co.

Holt, C. P., Treas., Holt Mfg. Co.

Holt, P. E., V. P., Genl. Mgr., Holt Mfg. Co.

Mayall, E. L., Holt Mfg. Co.

Springer, R. S., V. P., Holt Mfg. Co.

Taft.—Moeller, W., Jr., Ch. Engr., So. Cal. Gas Co.**Vallejo.**—Reed, J., Jr., Naval Constr., U. S. N., Mare Island Navy Yard.**West Berkeley.**—Czajkowski, A., Ch. Draftsman, Byron Jackson Iron Wks.**Whittier.**—McLaren, G. C. (Jr.), M. E., Whittier Water Co.**CANAL ZONE****Balboa.**—Bell, A. L., M. E., Mech. Div., Panama Canal.

Dye, I. W., Supt. Dry Dock Pumps, Panama Canal.

Rebbeke, E. A., Ch. Draftsman, Mech. Div., Panama Canal.

Stokoe, J., Mgr., Union Oil Co. of Cal.

Balboa Heights.—Hanson, J. J. (Jr.), Inspr. Charge Fuel Oil Storage System, Panama Canal.

Nichols, F. C., Asst. Engr. Terminal Constr., Panama Canal.

Cristobal.—Black, C. A., Supt. Dredging, Panama Canal.

Decker, J. H., care of Engr. of Docks, Panama R. R.

Reilly, C. J., M. M., Cristobal Marine Shops, Dry Dock.

Paraiso.—Macfarlane, J., Supt. Dredging, Panama Canal.**Pedro Miguel.**—Clark, F. C., Supt., Pac. Locks, Panama Canal.

Whitehead, R. H., Asst. Supt. Pac. Locks, Panama Canal.

COLORADO**Boulder.**—Hunter, J. A., Prof. M. E., Univ. of Colo.

Wallace, J. H., 1313 Seventh St.

Denver.—Anderson, E. C., M. E., Colo. & So. Ry.

Baker, F. D., Ch. Engr., Am. Smelting & Refining Co.

Ballou, F. H., Traveling Engr., Great West. Sugar Co.

Bridenbaugh, E. H., Supt., Jackson Compressor Co.

Brunton, D. W., Cons. Min. Engr., 730 Symes Bldg.

Carstens, A. B., 1926 Lincoln St.

Comstock, C. W., Engrg. Mgr., Goldsborough Co.

Hall, C. A. (Jr.), M. E., E. Posselt & Co.

Henderson, J. R., Mgr., Pueblo Wks., Stearns-Roger Mfg. Co.

Johnson, A. T. (Jr.), 3822 Walnut St.

Moody, W. F., Designing Engr., 6 Boston Bldg.

Nevill, D. J., M. E., Stearns-Roger Mfg. Co., Cons. M. E., Dorr Cyanide Mchy. Co.

Parce, J. Y., Dir. Shop Wk., Teacher Mch. Shop Wk., Mech. and Elec., Manual Training H. S.

Posselt, E., Cons. Engr., Posselt & Co.

Reilly, W. J., Dist. Sales Mgr., Babcock & Wilcox Co.

Shepard, F. E., Pres., M. E., Denver Engrg. Wks.

Sinsheimer, S. W., V. P., Genl. Mgr., Holly Sugar Co.

Skinner, J. D., 852 Gas and Elec. Bldg.

Stearns, T. B., Min. and M. E., 1720 California St.

COLORADO, Denver (Continued).

- Thomas, D. G., Ch. Engr., Denver Union Water Co.
 Van Buskirk, H. C., Denver Athletic Club.
 Walker, T. C., Pres., Walker Mfg. Co.
 Weber, H. R., Ch. Engr., Economy Furnace Co.
 Wilkinson, T. L., Cons. M. E., 407 Boston Bldg.
 Withrow, P. C., M. E., Denver & Rio Grande R. R. Co.
Fort Collins.—Aldrich, W. S., Assoc. Prof. E. E., State Agri. College.
 Crain, I. D., Asst. Prof. M. E., State Agri. College.
 Lawrence, J. W., Prof. M. E., State Agri. College.
Golden.—Lucht, F. W., Jr. (Jr.), Instr. M. E., Colo. Sch. of Mines.
Leadville.—Philleo, G. W., M. M. Arkansas Valley Smelter, Am. Smelting
 & Refining Co.
Pueblo.—McKenna, J. B. (Jr.), Mgr., Colo. Fuel & Iron Co.
Swink.—Bullen, A. C. (Jr.), M. E., Holly Sugar Co.

CONNECTICUT

- Ansonia.**—Bowen, D. R., Supt., Farrel Fdy. & Mch. Co.
 Edwards, W. B., M. E., S. O. & C. Co.
 Gager, E. B., Jr. (Jr.), Scientific Management Engr., Farrel Fdy. &
 Mch. Co.
 Schneller, G. O., Treas., Ansonia O. & C. Co.
 Whitney, W. F., M. M., Am. Brass Co.
Bantam.—Rogers, W. S., Pres., Bantam Anti-Friction Co.
Berlin.—Jarvis, C. M.
Branford.—Hammer, A. E., Treas., Genl. Mgr., Malleable Iron Fittings Co.
 Muller, R. O., Malleable Iron Fittings Co.
Bridgeport.—Bankwitz, F. E., Asst. Managing Engr., Fletcher Thompson,
 Inc.
 Barraja-Frauenfelder, J., Ch. Engr., Lake Torpedo Boat Co.
 Bilton, C. E., Pres., Treas., Stand. Mfg. Co.
 Blakeman, J. W., Acting M. M., Bridgeport Brass Co.
 Brewer, A., Supt. of Plant, Bridgeport Brass Co.
 Bullard, D. B., M. E., Supt., Bullard Mch. Tool Co.
 Bullard, E. P., Jr., Pres., Genl. Mgr., Bullard Mch. Tool Co.
 Burges, C. W., Supt., Yost Typewriter Wks.
 Camp, W. E. (Jr.), Industrial Engr. Yost Typewriter Wks., Remington
 Typewriter Co.
 Card, F. M., 116 Edna Ave.
 Case, W. L., Secy., Genl. Wks. Mgr., Salt's Textile Mfg. Co.
 Clark, W. R., M. E., Bridgeport Brass Co.
 Connolly, J. H., M. E., Remington Arms & Ammunition Co.
 Coulter, J., V. P., Automatic Mch. Co., also, Providence Engrg. Wks.,
 Providence, R. I.
 Dalrymple, P. W. (Jr.), Ch. Engr. Factory 10, Singer Mfg. Co.
 Ellingham, R. W., Asst. Supt., Remington Arms & Ammunition Co.
 Fletcher, E. L., Fletcher-Thompson, Inc.
 Gibbs, P. H. (Jr.), Asst. Supt., Bridgeport Chain Co.
 Hall, M. A., Adv. Dept., Locomobile Co. of Am.
 Harris, H. E., Pres., Genl. Mgr., H. E. Harris Engrg. Co.
 Johnson, J. F., Dir., State Trade Sch.
 Keating, D. A., Mech. Supt., Am. Tube & Stamping Co.
 Kingsbury, J. G., Pres., Treas., Grant Mfg. & Mch. Co.
 Lake, S., Pres., Lake Torpedo Boat Co.
 Lepper, J. G., Cons. Engr., 304 Meigs Bldg.
 MacGill, C. F., Efficiency Engr., Remington Arms & Ammunition Co.

CONNECTICUT, Bridgeport (Continued).

- Macdonald, G. M., Ballistic Engr., Remington Arms-Union Metallic Cartridge Co.
 Marshall, W. C., Remington Arms & Ammunition Co.
 Martin, E. J., Mgr., Conn. Elec. Mfg. Co.
 Miller, C. D. S., Pres., Am. Tube & Stamping Co.
 Oakes, E. A., 613 Laurel Ave.
 Persons, J. O., Wks. Engr., Remington Arms & Ammunition Co.
 Pigott, R. J. S., Power Engr., Remington Arms-Union Metallic Cartridge Co.
 Radford, G. S., Production Engr., Remington Arms & Ammunition Co.
 Ralph, J. J. (Jr.), M. E., Remington Arms-Union Metallic Cartridge Co.
 Riker, A. L., V. P., Locomobile Co. of Am.
 Roos, D. G., Asst. Exper. Engr., Engrg. Dept., Locomobile Co. of Am.
 Schmeltzer, J. E., Asst. Ch. Draftsman Mch. Div., Lake Torpedo Boat Co.
 Schmidt, F. W. (Jr.), Wks. Engr's. Dept., Union Metallic Cartridge Co.
 Scrannage, L. E. (Jr.), Remington Arms & Ammunition Co.
 Sonn, G. P. (Jr.), Engrg. Dept., Bridgeport Brass Co.
 Staples, H. A. (Jr.), Bridgeport Brass Co.
 Sweet, S. H., Hitchcock Gas Eng. Co.
 Thomas, G. B., M. E., Bryant Elec. Co., Perkins Elec. Switch Mfg. Co.
 Toucey, R. E. (Jr.), Bridgeport Brass Co.
 Trowbridge, A., Remington Arms & Ammunition Co.
 Warner, C. L., Pres., Treas., Genl. Mgr., Baird Mch. Co.
 Webster, W. R., Second V. P., Genl. Supt., Bridgeport Brass Co.
 Welch, J. B., Supt. of Forge Dept., Remington Arms & Ammunition Co.

Bristol.—Arnold, E. E., New Departure Mfg. Co.

- Benjamin, H. L. (Jr.), Draftsman, New Departure Mfg. Co.
 Hughes, F. G., Production Mgr., New Departure Mfg. Co.
 Woodruff, C. A., Asst. Genl. Mgr., New Departure Mfg. Co.

Chester.—Jennings, A. L., Treas., Genl. Mgr., Russell Jennings Mfg. Co.**Collinsville.**—Hill, W., Pres., Collins Co.**Derby.**—Huson, W. S., Genl. Supt., Whitlock Ptg. Press Mfg. Co.

- Thomas, R. H. (Jr.), Engrg. Dept., Birmingham Iron Fdy.

East Haddam.—Lichtenstein, V. (Jr.), Supt., Fish Net & Twine Co.**Grosvenordale.**—Arnold, W. S., M. M., Ch. Engr., Grosvenordale Co.**Groton.**—Anderson, J. W. (Jr.), Engr., Asst. to V. P., Elec. Boat Co.

- Bailey, T. S., Elec. Boat Co.
 Bowen, A. F., New London Ship & Eng. Co.
 Davison, G. C., V. P., Elec. Boat Co.
 Gunn, T. M., Charge Designing Dept., Elec. Boat Co.
 Haynes, J. L. (Jr.), Draftsman, New London Ship & Eng. Co.
 Lakey, A. B., Draftsman, Elec. Boat Co.
 Mahoney, J. A. (Jr.), Draftsman, Elec. Boat Co.
 Spear, L. Y., V. P., Elec. Boat Co.
 Watson, H. L. (Jr.), Draftsman, Elec. Boat Co.

Hartford.—Allen, F. B., V. P., Hartford Steam Boiler Inspc. & Ins. Co.

- Austrom, C. A., Asst. Ch. Engr., Travelers Ins. Co. and The Travelers Indemnity Co.
 Barden, J. C., Assoc. Dir. Bureau Inspc. & Accident Prevention, Aetna Life Ins. Co.
 Beakey, P. J., Foreman Type Dept., Royal Typewriter Co., Inc.
 Belcher, W. J., Supt., Whitney Mfg. Co.
 Billings, C. E., Pres., Genl. Mgr., Billings & Spencer Co.
 Billings, F. C., V. P., Billings & Spencer Co.

CONNECTICUT, Hartford (Continued).

- Blake, C. S., Secy., Hartford Steam Boiler Inspc. & Ins. Co.
 Bond, G. M., M. E., 69 Washington St.
 Brown, L. H., M. E., Travelers Ins. Co.
 Buckingham, E., 227 Sigourney St.
 Burtzell, B. W., Sales Mgr., Whitney Mfg. Co.
 Church, M. D., Asst. Engr., Terry Steam Turbine Co.
 Cook, C. B., Factory Mgr., Royal Typewriter Co.
 Crosby, E. H., Genl. Supt., Veeder Mfg. Co.
 Darlington, P. J., Pres., Roto Co.
 Dowd, B. J., Ch. Draftsman, Foreman Exper. Dept., Royal Typewriter Co.
 Echols, F. G., Mgr., Small Tools Dept., Pratt & Whitney Co.
 Ehbets, C. J., M. E., Pat. Expt., Colt's Pat. Fire Arms Mfg. Co.
 Fisher, J., Ch. Engr. Hartford Dist., Conn. Co.
 Flynn, M. H., Factory Supt., Royal Typewriter Co.
 Gilmour, G., Ch. Engr., Travelers Ins. Co.
 Grohmann, C. L., Ch. Engr., Pratt & Whitney Co.
 Hanson, B. M. W., V. P., Pratt & Whitney Co.
 Hare, C. R., Supt., Arrow Elec. Co.
 Harter, C. J., M. E., Pratt & Whitney Co.
 Hoagland, F. O., Asst. Wks. Mgr., Pratt & Whitney Co.
 Honiss, W. H., M. E., Solicitor of Patents.
 Honeywill, A. W., Jr. (Jr.), 50 Farmington Ave.
 Howard, C. P., Pres., James L. Howard & Co.
 Howard, F. E., Secy., Treas., James L. Howard & Co.
 Hunter, J. S., 15 Washington St.
 Jacobs, A. L., Pres., Treas., Genl. Mgr., Jacobs Mfg. Co.
 Jacobs, W. S., Treas., Walton Co.
 Jeter, S. F., Ch. Engr., Hartford Steam Boiler Inspc. & Ins. Co.
 King, E. L., Secy., Pratt & Cady Co.
 Knox, C. M. (Jr.), M. E., 281 Wethersfield Ave.
 London, W. J. A., Ch. Engr., Terry Steam Turbine Co.
 Long, G. A., Genl. Mgr., Gray Telephone Pay Sta. Co.
 Loomis, B., Jr., 843 Prospect Ave.
 Lorenz, W. A., M. E., Solicitor of Patents, 60 Prospect St.
 Merritt, J., Cons. and Constr. M. E., 60 Prospect St.
 Newton, C. E., Treas., Jewell Belting Co.
 Peard, J. J., 33 Allen Pl.
 Plaine, G. H., Supt., Terry Steam Turbine Co.
 Pratt, L. W. (Jr.), Safety Inspcr., Aetna Life Ins. Co., Bureau of Inspc. and Accident Prevention.
 Prior, W. C. (Jr.), Draftsman Accident and Liability Dept., Aetna Life Ins. Co.
 Quint, A. D., Mgr., Turret Drill Co.
 Rice, C. D., Genl. Supt., Underwood Typewriter Co.
 Risteen, A. D., Engr. Engrg. and Inspg. Div., Travelers Ins. Co. and Travelers Indemnity Co.
 Rossberg, C. A. (Jr.), Ch. Draftsman, Veeder Mfg. Co.
 Sachs, J., V. P., Genl. Mgr., Sachs Laboratories, Inc.
 Schieldge, G. K., Supt., Taylor & Fenn Co.
 Smith, P. C. (Jr.), Factory Mgr., Maxim Silencer Co.
 Snow, N. L., Genl. Sales Mgr., Terry Steam Turbine Co.
 Souther, H., Pres., Henry Souther Engrg. Co.
 Spencer, I. H., Pres., Spencer Turbine Cleaner Co., V. P., Organ Power Co.
 Sponsel, C. W., Treas., Mgr., Allen-Sponsel Co.
 Thompson, F. S., Ch. Engr., Hartford Mch. Screw Co.
 Thompson, J. L., Supvg. Engr., Travelers Ins. Co., Travelers Indemnity Co.
 Townsend, H. P. (Jr.), Secy., Genl. Mgr., H. P. Townsend Mfg. Co.

CONNECTICUT, Hartford (Continued).

Trinder, F. J., Supvr. Trade Education, State Bd. of Education.

Van Syckel, F. T. (Jr.), Niles Bement Pond Co.

Veeder, C. H., Pres., Veeder Mfg. Co.

Whitney, A., Secy., Treas., Whitney Mfg. Co.

Whitney, C. E., Pres., Genl. Mgr., Whitney Mfg. Co.

Kensington.—Segalowitz, O. (Jr.), M. E., Am. Paper Goods Co.**Meriden.**—Brotherhood, R. S., Asst. Engr., Internatl. Silver Co.

Decherd, C. K., M. M. Charge of Plant, Factory E, Internatl. Silver Co.

Flagg, C. N., Jr., Secy., Taylor-Flagg Co.

Horne, G. A., Supt. Meriden Plant, N. E. Westinghouse Co.

King, W. A., Supt., Parker Bros. Gun Mfg. Co.

Lawton, B. L., Treas., Conn. Tel. & Elec. Co., Inc.

Millard, R. W., Genl. Mgr., Foster, Merriam & Co.

Rowntree, F. L., Mfg. Supt., Foster, Merriam & Co.

Wood, F. L., Supt., Aeolian Co.

Middletown.—Lindquist, E. A. (Jr.).**Milford.**—Illmer, L., Ch. Engr., Lake Heat Eng. Co.**Mystic.**—Fournier, T. F., Genl. Mgr., Stand. Mchy. Co.**Naugatuck.**—Baker, J. C. W., M. M., Rubber Regenerating Co.

Payne, S. F., M. M., Goodyear's M. R. Shoe Co.

New Britain.—Brown, R. S., Secy., New Britain Mch. Co.

Burgess, C. M., 358 W. Main St.

Carter, E. R., Jr. (Jr.), Engr., Fafnir Bearing Co.

Cooper, E. H., Treas., Fafnir Bearing Co.

Corbin, A. F., Pres., Union Mfg. Co.

Crain, J. J., Sales Engr., Waterbury Tool Co.

Fletcher, J. R., Genl. Supt., P. & F. Corbin Mfg. Co.

Fox, R. H. (Jr.), Exper. Engr., Fafnir Bearing Co.

Goodwin, E. C., Supt., Hart & Cooley Co.

Goss, S. T., Mch. and Automatic Dept., New Britain Mch. Co.

Hart, H. S., Pres., Hart & Cooley Co.

Jones, H. K., Mech. Supt., Am. Hardware Corp.

Lang, C. W., New Britain Mch. Co.

Norris, C. H., M. E., Asst. to Second V. P., Am. Hardware Corp.

Pelton, E. W., Supt. of Power, Stanley Wks.

Schubert, A., Ch. Draftsman, New Britain Mch. Co.

Stanley, A. W., Pres., Stanley Rule & Level Co.

Stone, E. B. (Jr.), Wks. Mgr., Corbin Cabinet Lock Co.

New Haven.—Baird, J. T., Jr. (Jr.), 56 Ellsworth Ave.

Bardo, B. F. (Jr.), Inspr. of Power Plants, N. Y. N. H. & H. R. R. Co.

Barnum, G. S., V. P., Bigelow Co.

Barnum, S. H., 2d (Jr.), Secy., Bigelow Co.

Bigelow, F. L., Pres., Bigelow Co.

Bigelow, P. (Jr.), Asst. Treas., Bigelow Co.

Brady, G. S., Efficiency Engr., Winchester Repeating Arms Co.

Breckenridge, L. P., Prof. M. E., Yale Univ.

Coes, H. V., V. P., Genl. Mgr., Sentinel Mfg. Co.

Dowd, J. H., Supvr. of Scheduling, Gun Dept., Winchester Repeating Arms Co.

Germain, J. N., Asst. Overseer of Production Drafting Dept., Winchester Repeating Arms Co.

Gerner, G. C. (Jr.), Instr. Testing Materials, S. S. S., Yale Univ.

Greene, A. E., Charge Power, Heat, Light, Winchester Repeating Arms Co.

Greist, H. M., Secy., Supt., Asst. Genl. Mgr., Greist Mfg. Co.

CONNECTICUT, New Haven (Continued).

- Greist, P. R., Pres., Genl. Mgr., Greist Mfg. Co.
 Haas, H. A. (Jr.), Cartridge Dept., Winchester Repeating Arms Co.
 Hands, R. C. (Jr.), Supvr. Preparation Production Div. Plant Dept., Winchester Repeating Arms Co.
 Hemmerly, W. D., Scientific Management, 310 Yale Ave.
 Henney, J., Duncan Hall.
 Hoyt, F. W. (Jr.), Miscellaneous Engrg., Winchester Repeating Arms Co.
 Johnson, W. B., M. E., Acme Wire Co.
 Junkins, J. N. (Jr.), Engr., Aberthaw Constr. Co., care of Winchester Repeating Arms Co.
 Knous, F. F., 265 Bassett St.
 Langstroth, C. B. (Jr.), 32 Maple St.
 Lockwood, E. H., Asst. Prof. M. E., S. S. S., Yale Univ.
 Longwell, H. E., Genl. Mgr., Westinghouse Air Spring Co.
 MacArthur, R., Jr., Supt. M. P., Sargent & Co.
 Mackenzie, G. E., Winchester Repeating Arms Co.
 Mackintosh, F. L., Supt. of Non-Production Depts., Winchester Repeating Arms Co.
 Miller, L. H. (Jr.), Asst. Supt., Am. Steel & Wire Co.
 Norcross, J. A., Secy., Treas., New Haven Gas Light Co.
 North, H. B., Supt., Sentinel Mfg. Co.
 Pancoast, F. L., Winchester Repeating Arms Co.
 Pangburn, D. B. (Jr.), Instr., S. S. S., Yale Univ.
 Parsell, R. L. (Jr.), Planning and Efficiency Wk., Winchester Repeating Arms Co.
 Penney, R. L. (Jr.), Testing Engr., Winchester Repeating Arms Co.
 Pickop, G. B., Supt. of Mech. Operations, Sargent & Co.
 Porter, C. T. (Jr.), Instr. M. E., Yale Univ.
 Prentice, D. B. (Jr.), Asst. Instr. M. E., S. S. S., Yale Univ.
 Pugsley, E. (Jr.), Winchester Repeating Arms Co.
 Reuter, F. J. G., Production Supvr. Plant Dept., Winchester Repeating Arms Co.
 Richards, C. B., Prof. Emeritus, M. E., Yale Univ.
 Ripple, P. W., 271 Sherman Ave.
 Robinson, P. M. (Jr.), Yale Univ.
 Roe, J. W., Asst. Prof. Meh. Design, S. S. S., Yale Univ.
 Sargent, H. B., Sargent & Co.
 Sargent, W. F., Salesman, Estimator, Bigelow Co.
 Scott, C. F., Prof. E. E., S. S. S., Yale Univ.
 Seward, H. L., Instr. M. E., S. S. S., Yale Univ.
 Smith, A. L. (Jr.), Ch. Draftsman, Sentinel Mfg. Co.
 Sorrow, W. J., Supt. Production Plant Dept., Winchester Repeating Arms Co.
 Stone, J. W., Treas., Mgr., East. Mchy. Co.
 Storrs, L. S., Pres., Conn. Co.
 Tredwell, K. I. (Jr.), Systemizer, Sentinel Automatic Gas Appliance Co.
 Voight, H. G., Member Shop Com., Sargent & Co.
 Waters, E. O. (Jr.), Instr. Meh. Design, S. S. S., Yale Univ.
 Westcott, H. R., Cons. Engr., Chamber of Commerce Bldg.
 Wilcox, H. M. (Jr.), Industrial Engr., Winchester Repeating Arms Co.
 Wildin, G. W., Mech. Supt., N. Y., N. H. & H. R. R.

New London.—Forbes, W. D., 236 Hempstead St.

- McCulloch, A., New London Ship & Eng. Co.
 Mayo, J. B., Checker Drafting Dept., New London Ship & Eng. Co.
 Whiton, L. E., Mgr., M. E., D. E. Whiton Meh. Co.

Norwalk.—McElroy, J. A., Pres., Empire Constr. Co.

CONNECTICUT (Continued).

- Norwich.**—Brown, A. C., Wks. Mgr., Hopkins & Allen Arms Co.
 Gale, W. L., Engr., Tool Designer, Hopkins & Allen Arms Co.
 Pilissier, L. J., Tool and Equip. Designer, Hopkins & Allen Arms Co.
 Veness, A. E., Wks. Supt., Hopkins & Allen Arms Co.
- Plainville.**—Newton, C. H., Secy., Treas., Osborne & Stephenson Mfg. Co.
- Plantsville.**—Lane, A. M.
- Portland.**—Hall, S. S., Secy., Pickering Governor Co.
 Pascall, R. H., Pres., Pickering Governor Co.
- Shelton.**—Engblom, A., M. E., Sidney Blumenthal & Co.
- Short Beach.**—Browne, J. H., Cons. Engr., Box 161.
- Sound Beach.**—McMurtry, A. L., Cons. Engr.
- South Manchester.**—Cheney, F., Jr., Pres., Cheney Bros.
 Lucey, E. A., Industrial Engr., H. L. Gantt, care of Cheney Bros.
 Miller, G. H., Supv. Engr., Cheney Bros.
 Nickerson, J. W. (Jr.), Industrial Engr., Cheney Bros., Silk Mills.
- South Norwalk.**—Hill, E., Jr., Secy., Supt., Norwalk Iron Wks. Co.
 Jennings, I. C., V. P., Mgr., Nash Engrg. Co.
 Mathews, W. E., Supvr., Inspc. and Tests, Norwalk Iron Wks. Co.
 Nash, L. H., Pres., Nash Engrg. Co.; also, Ch. Engr., Natl. Meter Co.,
 New York, N. Y.
- Stamford.**—Arnold, J. A. (Jr.), Draftsman, Remington Oil Eng. Co.
 Borie, R., E. E., Yale & Towne Mfg. Co.
 Emery, A. H., C. and M. E., 788 Main St.
 Horne, J. A., Genl. Supt., Yale & Towne Mfg. Co.
 Lewis, R. C., Asst. Supt. Bank Lock Dept., Yale & Towne Mfg. Co.
 Lindholm, A. C., Genl. Supt., Stamford Motor Co.
 Maxwell, M. C., Supt. of Power and Plant, Yale & Towne Mfg. Co.
 Polakov, W. N., Cons. Engr., Revonah Manor.
 Regan, J. C., Asst. Genl. Supt., Yale & Towne Mfg. Co.
 Towne, H. R., Yale & Towne Mfg. Co.
 Treat, S. W. (Jr.), Southfield Point.
 Weber, G. A., 71 Courtland Ave.
- Suffield.**—Schopfer, F. H. (Jr.), Designing, E. N. & R. E. Spaulding.
- Thomaston.**—Shipley, A. R., Industrial Engr., Seth Thomas Clock Co.
- Thompsonville.**—Upson, L. A., Treas., Upson-Martin Co.
- Torrington.**—Alvord, C. H., V. P., Genl. Mgr., Hendey Mch. Co.
 Conran, F. M., Supt., Torrington Mfg. Co.
 Ellis, H. G. (Jr.), Supt., Torrington Mfg. Co.
 Gaylord, W. W. (Jr.), Ch. Draftsman, Am. Brass Co.
 Perry, R. H. (Jr.), 76 Clark St.
- Wallingford.**—Williams, H. D.
- Waterbury.**—Alexander, L. A., Genl. Store Keeper, Am. Brass Co.
 Breckenridge, A. L. (Jr.), Chase Metal Wks.
 Bristol, H. H. (Jr.), Charge Exper. Dept., Bristol Co.
 Bristol, W. H., Pres., Bristol Co.
 Campbell, A. C., Cons. Engr., Pres., Mgr., Andrew C. Campbell, Inc.
 Castle, J. S. P. (Jr.), Ch. Engr., Am. Brass Co.
 Chase, F. S., Secy., Waterbury Mfg. Co., Treas., Chase Rolling Mill Co. and
 Chase Metal Wks.
 de Lancey, D., 52 Pine St.
 Doolittle, W. P., Designing Engr., Waterbury Mfg. Co.
 Goss, E. O., Genl. Mgr., Scovill Mfg. Co.

CONNECTICUT, Waterbury (Continued).

Hart, H. P. (Jr.), Platt Bros. Co.
 Isbell, H. L. (Jr.), Asst. Ch. Engr., Am. Brass Co.
 Johnson, E. W., 70 Chestnut Ave.
 Kane, F. J., Draftsman, Waterbury Farrel Fdy. & Mch. Co.
 Koester, H., Mech. Supt., Bristol Co.
 Leggett, G. R., Asst. to Genl. Supt., Scovill Mfg. Co.
 Lutze, J. H. (Jr.), Designer, Bristol Co.
 Martus, M. L., M. E., Mgr., Secy., Waterbury Battery Co.
 Morse, W. R., Asst. Supt., Shoe Hardware Co.
 Putnam, J. R., M. E., Waterbury Clock Co.
 Rockwell, S. B. (Jr.), Asst. Supt., Internatl. Silver Co.
 Rowbottom, G., Pres., Rowbottom Mch. Co.
 Sanderson, E. S., care of Scovill Mfg. Co.
 Summey, D. L., 169 Buckingham St.
 Thompson, H. L.

West Hartford.—Neilson, F. C., P. O. Box 472.

Wolcott, H. A., M. and C. E.

Willimantic.—Millett, K. B., Asst. Ch. Engr., Am. Thread Co.

Windsor Locks.—Horton, S. E., Pres., Genl. Mgr., E. Horton & Son Co.

DELAWARE

Edge Moor.—Cox, F. G., Edge Moor Iron Co.

Girvin, C. J., Supt., Edge Moor Iron Co.

Henry Clay P. O.—Kaighn, H. E., Ballistic Engr. Exper. Sta., E. I. du Pont de Nemours & Co.

New Castle.—Adair, C., M. E., Baldt Steel Co.

Newark.—Smith, M. V. G., Prof. M. E., Delaware College.

Newport.—Krebs, A. S.

Smith, W. J., Genl. Mgr., Lightwell Steel Sash Co.

Topping, H., Krebs Pigment & Chem. Co.

Wilmington.—Bancroft, J., Treas., Joseph Bancroft & Sons Co.

Betts, A., 1515 W. 14th St.

Bird, J. B., Joseph Bancroft & Sons Co.

Boyd, W. A., Supvg. Engr., Light, Heat and Power Dept., E. I. du Pont de Nemours & Co.

Brassington, J. W., Engr. of Drawing Rm., Pusey & Jones Co.

Coppage, B. D., Ch. Engr., Pusey & Jones Co.

Cöster, E. H., Engr., E. I. du Pont de Nemours & Co.

Darling, P. G., Ch. Engr. Exper. Sta., E. I. du Pont de Nemours & Co.

de Cazenove, L. A., Jr., with Finance Com., E. I. du Pont de Nemours & Co.

du Pont, C., Pres., Equitable Office Bldg. Corp.

Forgey, J. E., Ch. Engr., Chas. Warner Co.

Harris, T. W., Jr. (Jr.), Asst. in Pur. Dept., E. I. du Pont de Nemours & Co.

Hazard, V. G., Designer Paper Mch., Pusey & Jones Co.

Hope, W. R., Ch. Draftsman, E. I. du Pont de Nemours & Co.

Jordan, W. A., Genl. Sales Mgr., Am. Vulcanized Fibre Co.

Mellhenney, W., 1514 Clayton St.

Moreton, G. W., Genl. Supt., Betts Mch. Co.

Mueller, C. (Jr.), Draftsman, E. I. du Pont de Nemours & Co.

Neely, F. L., E. I. du Pont de Nemours & Co.

Parsons, G. K., V. P., Am. Vulcanized Fibre Co.

DELAWARE, Wilmington (Continued).

- Pusey, C. W., Inspc. Engr., Pusey & Jones Co.
 Schoenijahn, R. P., Cons. Engr., Church Bldg.
 Shaw, J. H. (Jr.), M. E., Am. Vulcanized Fibre Co.
 Shaw, W. M., V. P., Genl. Mgr., Benjamin F. Shaw Co.
 Smith, R. W., V. P., Hilles & Jones Co.
 Spruance, W. C., Jr., du Pont Bldg.
 Staniar, W., Spec. M. E., E. I. du Pont de Nemours & Co.
 Tallman, F. G., Dir. of Purchases, E. I. du Pont de Nemours & Co.
 Van Trump, C. R., 305 W. 8th St.
 Wardenburg, F. A., Directing Engr., Light, Heat & Power Dept., E. I. du Pont de Nemours & Co.
 Warner, I. (Jr.), Plant Mgr., Charles Warner Co.
 Wood, E. H., M. E., East. Malleable Iron Co.
 Wood, W. B., Asst. Ch. Engr., Joseph Bancroft & Sons Co., Rockford.

DISTRICT OF COLUMBIA**Washington.**—Artaud, T. P., Engr. Charge Land Valuations, Interstate Commerce Com.

- Bareuther, A. A., Inspr., Panama Canal.
 Bechert, F. J. (Jr.), Asst. Examiner, U. S. Pat. Office.
 Beebe, L. L., Asst. M. E., U. S. Dept. of Agri., Office of Public Rds.
 Benns, C. P., Asst. Mgr., Underwriters Asso. of D. C.
 Bixby, Genl. W. H., U. S. A., 735 Southern Bldg.
 Boyd, W. W. (Jr.), Asst. Inspr. Weights and Measures, Bureau of Standards.
 Buckingham, E., Assoc. Physicist, Bureau of Standards.
 Carbo, L. A. (Jr.), 1614 Eye St., N. W.
 Carlsson, C. A. V., Ordnance Engr., Navy Dept.
 Carty, R. F. (Jr.), M. E., Loco. Boiler Inspc. Div., Interstate Commerce Com.
 Caughell, J. N., Mech. Supt., U. S. Dept. of Agri.
 Chadwick, G. A., Leading Ordnance Draftsman, U. S. Naval Gun Factory.
 Conti, A., Ch. Computing Draftsman, Bureau of Steam Engrg., Navy Dept.
 Cook, J. P. (Jr.), Senior M. E., Interstate Commerce Com.
 Dodge, P. Van P., 724 Ninth St., N. W.
 Doying, W. A. E., Inspg. Engr., Panama Canal.
 Fleming, R. F. (Jr.), Sterrett & Fleming.
 Gillis, H. A., M. E., Home Life Bldg.
 Gurney, D. A., Draftsman, Charge Field Carriage Div., Ordnance Office, U. S. A.
 Hadley, W. B., Asst. E. E., Dist. of Columbia.
 Hardesty, F. S., Cons. Engr., Home Life Bldg.
 Hardman, F. J., Jr., Asst. Examiner, U. S. Pat. Office.
 Hersey, M. D., Asst. Physicist, Bureau of Standards.
 Hillyer, G., Jr., M. E., Valuation Dept., So. Ry. Co.
 Hollerith, H., 1054 31st St.
 Holmes, U. T., Commander, U. S. N., Bureau of Steam Engrg., Navy Dept.
 Hopkins, N. M., E. and M. E., Cons. in Pat. Cases, 2128 Bancroft Pl.
 Horton, E. Q. (Jr.), Mgr., Otis Elev. Co.
 Jakobsson, H., Reg. Pat. Atty., Cons. Engr., 700 Tenth St., N. W.
 Johnson, A. E., Designer, Ordnance Office, War Dept.
 King, F. B., Cons. Marine Engr., Naval Arch., 1442 Rhode Island Ave.
 Knight, H. S., Pat. Lawyer, Expt., 726 Ninth St., N. W.
 Lawton, J. E., Ch. Inspr., Panama Canal.
 McCormick, E. B., M. E., Office of Public Rds., U. S. Dept. of Agri.
 Metz, W. R., Supt. of Bldgs., Govt. Ptg. Office.

DISTRICT OF COLUMBIA, Washington (Continued).

- Morse, R. W., Asst. Examiner, U. S. Pat. Office, Asst. Prof. M. E., George Washington Univ.
- Morton, G. L., Prin. Examiner, Instruments of Precision, U. S. Pat. Office.
- Mosher, W. E. (Jr.), Horticultural and Pomological Investigations, U. S. Dept. of Agri.
- Norton, H. P., Capt., U. S. N., Mem. Naval Examining and Retiring Bds., Navy Yard.
- Peel, F. P. (Jr.), Mgr., So. Sales Co.
- Powell, J. E., Cons. Engr., 307 Union Trust Bldg.
- Price, H. M., M. E., Lamson Co.
- Raynal, A. H., M. E., Bureau of Steam Engrg., Navy Dept.
- Robinson, G. P., Asst. Ch. Insp., Loco. Boilers, Interstate Commerce Com.
- Rupp, M. E., Engr-Insp., Panama Canal.
- Schoenborn, W. E., Solicitor of Patents, Expt. in Pat. Causes, 908-912 G St., N. W.
- Simpson, G. R., Prin. Examiner, Charge Ry. and Rolling Stock Div., U. S. Pat. Office.
- Smith, A. D., Ch. Engr., Washington Steel & Ordnance Co.
- Stratton, S. W., Dir. Natl. Bureau of Standards, Dept. of Commerce.
- Tait, G. M. S., Cons. Engr., 1413 G St., N. W.
- Thomas, G. (Jr.), B. F. Sturtevant Co.
- Thompson, E. W., Commer. Agt., Bureau of Foreign and Domestic Commerce.
- Van Brunt, E. S., 1313 K St., N. W.
- Werner, P. J. (Jr.), Insp. Engr. Materials, Panama Canal.
- Weschler, G. A., Assoc. Prof. M. E., Catholic Univ. of Am.
- Wheeler, C. Van C., Supt., Washington Steel & Ordnance Co.

FLORIDA

- Bartow.**—McLeod, A. A., Engr., Supt., Fla. Phosphate Min. Corp.
- Gainesville.**—Chandler, R. E., Prof. M. E., Univ. of Fla.
- Georgiana.**—Smart, R. A.
- Jacksonville.**—Day, C. I. (Jr.), Genl. Mgr., So. Utilities Co.
Gibbs, G. W., Jr., Mfr., Gibbs Gas Eng. Co. of Fla.
- Keystone Park.**—Lane, F.
- Pierce, Polk Co.**—Tietze, W., Ch. Engr. Power Plants, Pierce Phosphate Co.
- Pinellas Park, Pinellas Co.**—Cheyney, A. R.
- Tampa.**—Kreher, E., Pres., Genl. Mgr., Tampa Fdy. & Mch. Co.
Warder, W. J., Jr., Box 983.
- Tiger Bay, Polk Co.**—Mansfield, C. B. (Jr.), Draftsman, C. E., Palmetto Phosphate Co.

GEORGIA

- Atlanta.**—Compton, R. W., So. Rep., Hooven, Owens, Rentschler Co.
Coon, J. S., Prof. M. E., Supt. of Shops, Ga. Sch. of Tech.
Dallis, P. A., Mill Arch. and Engr., Park A. Dallis Co.
Davidson, A., Dist. Engr., Westinghouse Mch. Co.
Elsas, O., Pres., Fulton Bag & Cotton Mills.
Hall, R. B., Jr., Southeastern Mgr., Ames Iron Wks., Consldtd. Engrg. Co.
Hutchinson, A. H., Sales Engr., Frick Co.
Lamar, P. R., So. Cotton Oil Co.
Neely, F. H., Industrial Engr., 70 Madison Ave.

GEORGIA, Atlanta (Continued).

- Nesbit, J. N. G., Prof. Exper. Engr., Ga. Sch. of Tech.
 Neville, W. J., Sales Mgr., Chapman Valve Mfg. Co.
 Nolan, Q. R. (Jr.), Supt. Constr. Charge of Surveys, Park A. Dallis Co.
 Poole, C. P., Cons. Engr., P. O. Box 774.
 Rahner, M. L. (Jr.), Atlanta Steel Co.
 Robert, L. W., Jr., Mill Arch., Engr., Mem. of Firm, Park A. Dallis Co.
 Scott, E. F., Contr. M. E., 702 Candler Bldg.
 Weiss, H. A. (Jr.), Asst. Prof. Drawing, Ga. Sch. of Tech.
- Augusta.**—Davis, O. M., Constr. M. E., Oil Mill, Swift & Co.
Macon.—Nott, A. J. (Jr.), Central Ga. Power Co.
Newnan.—Blackburn, B. M., Asst. Engr., R. D. Cole Mfg. Co.
 Cole, F. B., Ch. Engr., R. D. Cole Mfg. Co.
Savannah.—Gaines, F. F., Supt., M. P., Central of Ga. R. R.
 Haskell, G. O. (Jr.), Asst. to V. P., So. Cotton Oil Co.
Valdosta.—Eager, W. G., Second V. P., Valdosta Ltg. Co.

HAWAII

- Hakalau.**—Kennedy, J. E., Ch. Engr., Hakalau Plantation Co.
Honolulu.—Gartley, A., Cons. Engr., C. Brewer & Co., Ltd.
 Hall, W. G., Mgr., Catton, Neill & Co., Ltd.
 Hedemann, C. J., Genl. Mgr., Honolulu Iron Wks. Co.
 Hind, R. R., Cons. Sugar House Engr., Honolulu Iron Wks. Co.
 Köpke, E., Mech. and Sugar House Engr., Honolulu Iron Wks. Co.
 Scott, J., Honolulu Iron Wks. Co.
 Sheedy, J. E., Genl. Supt., Inter Island Steam Navigation Co.
 Young, J. M., Dean of Engr., College of Hawaii, and Cons. Engr.
- Makaweli, Kauai.**—Truscott, H. S., Factory Supt., Hawaiian Sugar Co.
Puunene, Maui.—Deinert, E. F., Ch. Engr. Pumping Plants, Hawaiian Commercial & Sugar Co.
 Searby, W., Supt. Mills and Mfr., Hawaiian Commercial & Sugar Co.

IDAHO

- Moscow.**—DuPriest, J. R., Head of M. E. Dept., Univ. of Idaho.
 Goodrich, R. R., Univ. of Idaho.
 Hutton, S. E., Cons. Engr., 115 Van Buren St.
Salmon.—Liskow, B. H., Supt., Kirtley Creek Gold Dredging Co.
Squirrel, Fremont Co.—Waddell, G. F., M. E.

ILLINOIS

- Alton.**—Clyne, R. G., Mgr., West. Cartridge Co.
 Duncan, W. M., V. P., Ill. Stoker Co., Genl. Mgr., Duncan Fdy. Co.,
 Secy., Treas., Am. Coal Washing Co.
 Walther, W. E. A., M. E., Ill. Glass Co.
Anna.—Gardner, T. M., Cons. Engr.
Argo, Cook Co.—Jefferies, F. L., Supt., Corn Products Refining Co.
Aurora.—Pierson, D. B., V. P., Stephens-Adamson Mfg. Co.
Belleville.—Maverick, L. A. (Jr.), Asst. Sales Mgr., Germania Refrig. & Mch. Co.
 Parmely, J. C. (Jr.), St. Clair Co. Gas & Elec. Co.

ILLINOIS (Continued).

Cairo.—Bishop, F., Supt., Singer Mfg. Co.

Chicago.—Abbott, W. L., Ch. Operating Engr., Commonwealth Edison Co.
Ackerman, G. E., Office Mgr., Gardner S. Williams, 1018 Corn Exch. Bank Bldg.

Adams, H. H., Supt. of Shops and Equip., Chicago Surface Lines.

Ahrnke, H. P., Secy., Dairy Mchy. & Constr. Co., Inc.

Akerlind, G. A., Inspg. Engr. Bridge Dept., City of Chicago.

Albright, H. F., Genl. Supt., West. Elec. Co.

Allan, J. R. (Jr.), M. E., Pickham Boiler Co.

Allen, H. A., Cons. Engr., City of Chicago.

Allen, J. M., 830 Oakwood Rd.

Almert, H., Cons. Engr., The Rookery.

Alsberg, J. (Jr.), Engr., N. K. Fairbank Co.

Ames, J. H., Ch. Engr., Am. Car & Fdy. Co.

Anderson, A. H., Asst. Prof. M. E., Armour Inst. of Tech.

Anderson, E., Sargent & Lundy.

Atwater, H. A. (Jr.), M. E., Union Stock Yard & Transit Co.

Avery, A. O., Head, Section Layout Dept., West. Elec. Co.

Bacon, C. J., Steam Engr., Ill. Steel Co., South Chicago.

Baehr, W. A., Cons. Engr., Peoples Gas Bldg.

Bailey, A. D. (Jr.), Asst. Ch. Engr., Stas. 2 and 3, Commonwealth Edison Co.

Baker, N. L., M. E., Charge Power Generation and Distribution, By-Products Coke Corp.

Baldwin, C. K., West. Mgr., Robins Conveying Belt Co.

Balzer, F., M. E., Charge Drafting Dept., Troy Laundry Mchy. Co., Ltd.

Bancker, J. W., Asst. Genl. Supt., West. Elec. Co.

Barbieri, C., Cons. Engr., Temple Bldg.

Barnes, C. B., M. E., West. Elec. Co.

Barnett, C. P., Ch. Engr. Mech. and Constr. Depts., Sulzberger & Sons Co.

Bass, W. J., Engr. U. S. Yards, Armour & Co.

Bassett, C. W. (Jr.), Engr., Elev. Supply & Repair Co.

Bates, A. M., Pres., Bates Valve Bag Co.

Baumgartner, C. G., Designing Engr. M. E. Dept., Am. Bridge Co.

Bean, C. H., Asst. Supt., M. P., Armour & Co.

Bean, W. L., M. E., Oxbeld R. R. Serv. Co.

Bear, O. L., Sales Engr., Mgr., Benj. F. Kelley & Son, Inc. of New York.

Beck, C. E. (Jr.), Sales Mgr., De La Vergne Mch. Co.

Beerbaum, A. J. (Jr.), Plant Engr. Dept., West. Elec. Co.

Bendt, E. R. (Jr.), Boiler Erector, Babcock & Wilcox Co.

Bentley, H. T., Supt. M. P. and Mchy., Chicago & Northwestern Ry.

Berg, C. P., Cons. Engr., 10 S. La Salle St.

Berge, G. H., Treas., Genl. Mgr., New Process Hemp Mfg. Co.

Bibbins, J. R., Engr., Bion J. Arnold, 105 S. La Salle St.

Billow, C. O., Cons. Engr., Secy., Treas., Natl. Supply Co.

Bird, F. J., Engr. Charge Stand. Dept., Link-Belt Co.

Bird, P. P., Mem. of Firm, Norton & Bird.

Birdsey, C. R., Ch. Engr., U. S. Gypsum Co.

Bissell, A. W. (Jr.), Sales Dept., Am. Refractories Co.

Black, E. S., Edgar Allen Am. Manganese Steel Co.

Blanding, F. H., Supt., Woods Motor Vehicle Co.

Blauvelt, A., Assoc. Mgr., West. Factory Ins. Asso.

Boles, C. B. (Jr.), Asst. M. M., Sulzberger & Sons Co.

Bolling, S., Jr. (Jr.), Dist. Mgr., Southwark Fdy. & Mch. Co.

Bolte, E. H. (Jr.), Draftsman, Waugh Draft Gear Co.

Bowen, H. S., M. E., Robert W. Hunt & Co.

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 Boyle, C., Jr. (Jr.), Salesman, Clarence Boyle, Inc.
 Brady, J. B. (Jr.), Jos. T. Ryerson & Son.
 Brooks, C. C., Asst. West. Mgr., Mead-Morrison Mfg. Co.
 Bryant, G. F., Rm. 1824, 72 W. Adams St.
 Brydon, H. B., M. E., H. M. Byllesby & Co.
 Bunton, F. L., 4741 Sheridan Rd.
 Bureau, A. A. (Jr.), Salesman, W. J. Hartman Co.
 Burke, A. G., Jr., Genl. Sales Mgr.; Green Engrg. Co.
 Burnett, R. W., V. P., Natl. Car Equip. Co.
 Buss, W. L., Office Mgr., Pittsburgh Valve, Fdy. & Constr. Co.
 Byllesby, H. M., Pres., H. M. Byllesby & Co.
 Caldwell, G. G., Supt. of Constr., H. M. Byllesby & Co.
 Carpenter, H., M. E., Sanitary Dist. of Chicago, 700 Karpen Bldg.
 Carter, H. W., Mech. Expt., 635 Monadnock Blk.
 Case, M. M. (Jr.), Instr. Mch. Design and Drawing, Chicago Tech. College,
 Cons. M. E., 116 S. Michigan Ave.
 Casteels, A. (Jr.), 5819 W. Huron St.
 Chamberlain, P. M., Cons. Engr., Chamberlain & Howell.
 Charter, J. A., Cons. and Designing Engr., 1443 E. 65th Pl.
 Christensen, C. C., Estimating Engr., Allis-Chalmers Mfg. Co.
 Clark, A. B., Efficiency Engr., Fisk and Quarry St. Stas., Commonwealth
 Edison Co.
 Clark, A. L., Supt. West. Foundries, Am. Brake-Shoe & Fdy. Co.
 Clark, L. A., Secy., Treas., Archer Iron Wks.
 Clarke, L. L., Rm. 10, 106 N. La Salle St.
 Clifford, O. C., Assoc. Prof. E. E., Armour Inst. of Tech.
 Clucas, G. W., Engr., Am. Steam Pump Co., Secy., Stannard Power Equip.
 Co.
 Converse, W. A., Secy., Chem. Dir., Dearborn Chem. Co.
 Copeland, F. K., Pres., Sullivan Mchy. Co.
 Copp, W. J. (Jr.), Safety Inspr., 4246 N. Hermitage Ave.
 Cordes, P. H. (Jr.), Engrg. Salesman, Internatl. Steam Pump Co.
 Cramer, R., Engr., Designer, Motor Engrg. Co.
 Cressler, A. D., Pres., Cons. Engr., Kerr Murray Co.
 Dalley, A. H. C., Assoc. Mgr., Heine Safety Boiler Co., Harrisburg Fdy. &
 Mch. Wks.
 Davidson, C. J., Mem. of Firm, Woodmansee & Davidson.
 Davis, G. C., Pres., G. M. Davis Regulator Co.
 DePuy, C. E., Prof. Mch. Constr., Lewis Inst.
 de Revere, A. W. (Jr.), Dist. Sales Mgr., Terry Steam Turbine Co.
 DeWolfe, E. C., DeWolfe Catalog Service.
 Dillman, O. D. (Jr.), Asst. Mgr., Hooven Owens, Rentschler Co.
 Dinee, W. W., Ret. M. E., 5811 Dorchester Ave.
 Doud, W., Cons. M. and E. E., 1205-1208, 538 S. Dearborn St.
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 Easthope, J., M. M. Ill. Steel Co.'s South Wks.
 Ehrman, E. H., Secy., Factory Mgr., Chicago Screw Co., Engr., Stand.
 Screw Co.
 Eilersgaard, A., Engr. Loco. Crane Dept., Link-Belt Co.
 Ellicott, E. B., E. E., Sanitary Dist. of Chicago, 1500 Am. Trust Bldg.
 Elliott, W. E., Suptg. Engr., Goodrich Transit Co.
 Ellison, L. M., Engr., Mfr., 214 W. Kinzie St.
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- Fisher, R. R. (Jr.), Factory Clerk, Albaugh-Dover Co.
- Fitch, A. L., M. E., Electro-Mech. Engrg. Co.
- Fitch, C. E., Cons. M. E., V. P., Allen Engrg. Co.
- Flinn, M. S., Secy., Treas., Flinn & Dreffein Co.
- Foord, J. L., Ch. Insp., Hartford Steam Boiler Inspc. & Ins. Co.
- Forsyth, R., Cons. Engr., 1159 Rookery Bldg.
- Fralich, J. S. Y., Asst. Res. Engr., Westinghouse Air Brake Co.
- Fraser, N. D., Pres., Chicago Portland Cement Co.
- Freeman, H. S. (Jr.), 1515 W. Monroe St.
- Frey, H. J., M. E., 348 Peoples Gas Bldg.
- Frost, H., Pres., Brown Portable Elev. Co.
- Gardner, H. C., Mem. of Firm, Gardner & Lindberg.
- Garland, C. M., M. E., Woodmansee & Davidson.
- Gaston, N. D., Efficiency Engr., Adams & Westlake Co.
- Gates, P. W., Pres., Hanna Engrg. Wks.
- Gayman, B. A., Ch. Engr., Link-Belt Co.
- Gebhardt, G. F., Prof. M. E., Armour Inst. of Tech.
- Getts, F. E., Genl. Mgr., Elec. Engrs. Equip. Co.
- Gifford, R. L., Pres., Ill. Engrg. Co.
- Gilbert, H. H., Sales Agt., Pressed Steel Car Co., West. Steel Car & Fdy. Co.
- Gillette, H. P., Editor-in-Ch., Engrg. and Contr.
- Gilman, F. L., Asst. Genl. Supt. West. Elec. Co.
- Goetz, A. H., Asst. Mgr., Kroeschell Bros. Ice Mch. Co.
- Goetsch, J., Asst. Genl. Supt., Graham, Burnham & Co.
- Goetz, F. W., V. P., Goetz Co.
- Goodspeed, C. B., V. P., Buckeye Steel Castings Co.
- Gottfried, C. M., Genl. Mgr., Secy., Gottfried Brewing Co.
- Grauten, S. H., Asst. Engr., Pub. Serv. Co. of No. Ill.
- Graves, R. I., Mech. Asst. to Genl. Pur. Agt., C. & N. W. Ry. Co.
- Green, W. H., Ch. Engr., Internatl. Filter Co.
- Green, W. O., Mem. of Firm, Ogden, Sheldon & Co.
- Greenwall, W. L., M. E., City of Chicago.
- Hadley, S. L., Asst. Dir. Sales, Fairbanks, Morse & Co.
- Hagar, E. M., Pres., Universal Portland Cement Co.
- Hamilton, A. K., Pres., M. H. Treadwell Co. of Ill.
- Harper, J., Ch. Draftsman, West. Elec. Co.
- Harrington, J., Advis. Engr., 924 Consumers Bldg.
- Hastings, G. B., Fdy. Equip., 1511-1512 Lytton Bldg.
- Hawley, W. P., Asst. Prof. Charge Mech. Drawing, Lewis Inst.
- Hazard, W. H., M. E., Mead-Morrison Mfg. Co.
- Heaton, H. C., M. E., Sargent & Lundy.
- Hecht, J. L., 72 W. Adams St.
- Hendee, E. T., Secy., Mgr. Mchy. and R. R. Depts., Joseph T. Ryerson & Son, V. P., Lennox Mch. Co.
- Hendry, W. F., Tech. Supt., West. Elec. Co.
- Henes, H. W. (Jr.), Secy., Treas., Dueth-Henes Corp., Pres., Treas., Henes Sales Corp.
- Henning, W. K., Sales Engr., Murphy Iron Wks.
- Hill, R. J., Traveling Engr., Quaker Oats Co.
- Hitze, E. C., Genl. Supt. Edward Valve & Mfg. Co.
- Hollenberger, T. J. (Jr.), 4433 N. Paulina St.
- Hosford, W. F., Engr. of Methods, West. Elec. Co.
- Houser, A. M., Mech. Expt. Crane Co.

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- Howarth, J. M. (Jr.), Asst. Ch. Engr., Marshall Field & Co.
- Howell, H. L., Bd. of Supvg. Engrs.
- Howell, S. S., Cons. Engr., Chamberlain & Howell.
- Hubbard, G. W., Asst. M. E., D. H. Burnham & Co.
- Hughes, D. C., Pres., Hughes-Wessling Co.
- Humes, W. S. (Jr.), West. Rep., Transportation Utilities Co.
- Humphrey, C. W., Cons. and Designing Engr., 327 S. La Salle St.
- Hunt, R. W., Robert W. Hunt & Co.
- Irwin, F. K., Salesman, Niles-Bement-Pond Co.
- Jackson, J. R. (Jr.), Asst. Engr. Tests, A. T. & S. F. Ry. Co.
- Jackson, W. B., D. C. & Wm. B. Jackson.
- Jacobs, H. W., Pres., Oxweld R. R. Serv. Co.
- Jellum, K. (Jr.), Designer, Engr., Winslow Safety High Pressure Boiler Co., Winslow Bros. Co.
- Johnson, B. S., care of W. H. Miner, 667 The Rookery.
- Johnson, C. L., Clerical Supt. Genl. Mfg. Dept., West. Elec. Co.
- Johnson, G. A., Mech. Supt., W. H. Miner, 667 Rookery Bldg.
- Jones, H. C., Asst. to V. P., Inland Steel Co.
- Jones, W. C. (Jr.), Lawyer, Genl. and Pat. Law, Rm. 1610, 105 W. Monroe St.
- Junkersfeld, P., Asst. to V. P., Commonwealth Edison Co.
- Kasley, J. H., Engr. of Mfg. Layouts, West. Elec. Co., Hawthorne Sta.
- Keely, R. R., 4720 Clarendon Ave.
- Kehl, R. J. (Jr.), M. E., Oxweld Acetylene Co.
- Keil, G. B., Supt., Federal Sign System (Elec.).
- Keller, A. T., M. E., Ind. Steel Co.
- Kelly, O. G., Dist. Turbine Insp., Genl. Elec. Co.
- Kermer, M. J., M. E., Swenson Evaporator Co.
- Kerr, C. V., Pres., Engr., Kerr Auxiliary Co.
- Kerr, W. J. (Jr.), Utility Engrg. & Drafting, 108 S. La Salle St.
- Kimber, G. A., Mfr., 557-561 W. Jackson Blvd.
- Kimman, M. T., Ch. Engr., Supt., L. J. McCormick Estate.
- King, C. G. Y., Constr. Engr., Commonwealth Edison Co.
- Knight, I. D., Engr. Drive Chain Dept., Link-Belt Co.
- Krehbiel, F. A., Pres., Krehbiel Co.
- Kroeschell, R. A. (Jr.), Engrg. Dept., Kroeschell Bros. Ice Mch. Co.
- Kuss, R. H., Cons. Engr., Rm. 805, 112 W. Adams St.
- Lang, W. H., Secy., Treas., Phillips, Lang & Co., Inc.
- Lea, H. I., Cons. Gas. Engr., 1350, 1352, 1354 Peoples Gas Bldg.
- Lee, E. E., 10,511 S. Hamilton Ave.
- Lemley, B. W., V. P., Coats & Burchard Co.
- Leonard, A. G., Pres., Union Stock Yard & Transit Co. of Chicago.
- Levey, J., M. E., Natl. Mch. Wks.
- Levin, A. M., M. E., 1542 La Salle Ave.
- Lewis, G. Q., M. E., W. H. Miner, 667 The Rookery.
- Lewy, D., West. Mgr., Stand. Plunger Elev. Co.
- Lindberg, F. A., Gardner & Lindberg.
- Lindquist, E. W., Sales Engr., Allis-Chalmers Mfg. Co.
- Lockett, K., V. P., Orr & Lockett Hardware Co.
- Lofts, D., Constr. Engr., Am. Steel Foundries.
- Lord, C. E., Genl. Pat. Atty., Internatl. Harvester Co.
- Lord, J. E., Sales Engr., Nordberg Mfg. Co.
- Louer, L. S., West. Mgr., F. W. Dodge Publishing Co.
- Ludlow, C. G., West. Mgr., Crosby Steam Gate & Valve Co.
- Luhr, O., Cons. Engr., 154 W. Randolph St.
- Lundehn, O., Ch. Draftsman, Swift Refrigerator Transportation Co.

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- Lunger, W. G., Mgr., Union Twist Drill Co.
 Lyman, J., Sargent & Lundy.
 Lyon, C. W., Economy Engr., Hagar Portland Cement Co.
 McIntosh, R. L., 1236 Columbia Ave.
 McKee, W. N., Cons. Engr., 4346 Lake Park Ave.
 McKee, W. S., V. P., Edgar Allen Am. Manganese Steel Co.
 McKendrick, L. (Jr.), Engrg. Salesman, Wheeler Cond. & Engrg. Co.
 MacFarland, H. B., Engr. of Tests, Atchison, Topeka & Santa Fé Ry. System.
 MacKenzie, D. (Jr.), Asst. Mgr. Constr. Dept., Swift & Co.
 Macalister, R. N., M. E., Robt. W. Hunt & Co.
 Maher, E. E., Mgr., Lea-Courtenay Co.
 Marsh, T. A., Ch. Engr., Green Engrg. Co.
 Massey, G. B. (Jr.), Cons. Engr., Geo. B. Massey Co.
 Matchett, J. C. (Jr.), Ill. Engrg. Co.
 Maury, D. H., Cons. Engr., 1137-1138 Monadnock Blk.
 May, E. A., Asst. Mgr. Boiler Dept., Am. Radiator Co.
 May, O. J., M. E., Tex. Co.
 Meaker, G. L. (Jr.), Pres., Meaker Co.
 Meeker, L. A. (Jr.), 1431 Astor St.
 Melcher, C. W., Secy., Genl. Mgr., Ingersoll-Rand Co. of Ill.
 Merrill, J. J., Ch. Engr., Corn Products Refining Co.
 Misostow, H., M. E., Dept. of Smoke Inspc., City of Chicago.
 Mitchell, J. H., Mgr. of Sales West. Dist., Pressed Steel Car Co., West. Steel Car & Fdy. Co.
 Mitchell, J. R., Traveling Rep., W. H. Miner, 667 Rookery Bldg.
 Mohr, L., Secy., Cons. Engr., John Mohr & Sons.
 Monroe, W. S., M. E., Sargent & Lundy.
 Montgomery, H. M., Mfr.'s Agt., 137 S. La Salle St.
 Moody, W. O., M. E., Ill. Central R. R. Co.
 Moore, C. B., V. P., Oxbeld R. R. Serv. Co.
 Morava, W., Pres., Morava Constr. Co.
 Morhead, G. L., Asst. Ch. Engr., Link-Belt Co.
 Morgan, E. J., Engr., Alberger Pump & Cond. Co.
 Morse, C. H., Jr., Pres., Fairbanks-Morse Mfg. Co.
 Moseley, A. W., Prof. M. E., Lewis Inst.
 Murphy, J. Z., Ch. Engr., Chicago Rys. Co.
 Murray, C. R., V. P., Treas., Charge of Mfg., Barnhart Bros. & Spindler.
 Naylor, C. W., Ch. Engr., Marshall Field & Co.
 Neiler, S. G., Cons. M. and E. E., Pres., Neiler, Rich & Co.
 Oleson, O. E., Ch. Engr., Commonwealth Edison Co.
 O'Neil, J. G., Contr. Engr., 539 Marquette Bldg.
 Ostermann, R. M., Asst. to V. P., Loco. Superheater Co.
 Otis, S., V. P., Natl. Dump Car Co.
 Pabodie, R. J., Dist. Mgr., Griscom-Russell Co.
 Packer, E. R., M. E., Q. & C. Co.
 Parke, P., Ch. Engr., Pullman Co.
 Parker, F. W., Jr. (Jr.), Pat. Atty., Mem. of Firm, Parker & Carter.
 Parsons, H. N. (Jr.), Designer Health Dept., City of Chicago.
 Patitz, G. J., Ch. Engr., Peter Schoenhofen Brewing Co.
 Paul, C. E., Prof. Mech., Armour Inst. of Tech.
 Pearson, W. B., Pres., Stand. Screw Co.
 Peebles, T. A., Dist. Stoker Engr., Westinghouse Elec. & Mfg. Co.
 Pennock, G. A. (Jr.), Plant Engr., West. Elec. Co.
 Perham, D. E. (Jr.), Sales Engr., Automatic Refrig. Co.
 Peterson, F. C., Charge Engrs. and Draftsmen, West. Elec. Co.
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 Poppenhusen, P. A., Pres., Green Engrg. Co.
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 Prosser, J. G., 1301 E. 60th St.
 Pulsifer, H. M., 1622, 431 S. Dearborn St.
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 Reitz, W. R. (Jr.), Asst. to M. E., Burdett-Rowntree Mfg. Co.
 Rennie, W. M. (Jr.), Inventory Foreman, Sanderson & Porter.
 Rice, A. L., Managing Editor, Practical Engr., Cons. on Power Plant Engrg., 537 S. Dearborn St.
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 Robinson, J. A. M. (Jr.), Hyd. Engr., Am. Well Wks.
 Robinson, R. H., Economy Fuse Co.
 Roys, L. (Jr.), No. Trust Co.
 Rumely, W. N., Pres., Rumely-Wachs Mchy. Co.
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 Samson, C. L., Amalgamated Mchy. Corp.
 Sargent, F., M. E., Sargent & Lundy.
 Saxon, W., V. P., Wks. Mgr., Miehle Ptg. Press & Mfg. Co.
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 Sayers, W. W., Engr., Link-Belt Co.
 Schaefer, J. V. (Jr.), Secy., Treas., Cement-Gun Constr. Co.
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 Schlacks, W. J., McCord & Co.
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 Sessions, E. O., Cons. Engr., 5022 Sheridan Rd.
 Seymour, D. S., Supt., Union Spec. Mch. Co.
 Shankland, E. C., C. E., E. C. & R. M. Shankland.
 Sherman, M. H., Mgr., By-Products Coke Corp.
 Shimmis, R. P., Salesman, Link-Belt Co.
 Shults, L. J. (Jr.), M. E., McCormick Wks. International Harvester Co.
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 Sloan, B., Pratt & Whitney Co.
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 Smith, H. M., Supt. Mch. Shops and Foundries, Liquid Carbonic Co.
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 Spurling, O. C., Asst. Genl. Supt., West. Elec. Co.
 Stadler, C., Supt. Constr., Sulzberger & Sons Co.
 Stannard, J. M., Pres., Treas., Stannard Power Equip. Co., Mgr., Am. Steam Pump Co.
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 Steele, W. D., V. P., Benjamin Elec. Mfg. Co.

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 Stevenson, W. H., Secy., Power Plant Spec. Co.
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 Streeter, L. P., Air Brake Engr., Ill. Central R. R.
 Sweeney, J. M., M. E., 729 Monadnock Blk.
 Swinton, D. R. (Jr.), M. E., Tuthill Spring Co.
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 Symonds, N. G., Westinghouse Elec. & Mfg. Co.
 Symons, W. E., Cons. Engr., 900 Postal Telegraph Bldg.
 Taylor, J. H., Secy., Genl. Mgr., Am. Spiral Pipe Wks.
 Thayer, R. E. (Jr.), Assoc. Mech. Editor, Ry. Age Gazette and Am. Engr.
 Thompson, J. R., Senior M. E., Div. of Valuation, Interstate Commerce Com.
 Thompson, O. C., M. E., Wirebounds Corp.
 Thorp, G. G., Second V. P., Ill. Steel Co., V. P., Ind. Steel Co.
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 Tollerton, W. J., Genl. Mech. Supt., Chicago, Rock Island & Pac. Ry.
 Toney, P. (Jr.), Clerk, Automatic Elec. Co.
 Troutman, H. E., Asst. Sales Mgr., Internatl. Steam Pump Co.
 Turner, R. E., Assoc. Editor, Practical Engr.
 Unger, J. S., Cons. Engr., 3344 Broadway.
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 von Schlegell, F., Dist. Mgr., Allis-Chalmers Mfg. Co.
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 Walsh, F. J., Mech. Expt., Galena-Signal Oil Co.
 Walsh, W. F., Mech. Expt., Galena-Signal Oil Co.
 Wells, F. L., 101 S. Clinton St.
 Wesselhoeft, C. D., Pres., Wesselhoeft Co.
 Wheeler, C. H., Jr., Dist. Mgr., C. H. Wheeler Mfg. Co.
 Wheeler, F. G. (Jr.), Mech. Wk., Michle Ptg. Press & Mfg. Co.
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 Wilcox, R. B., 510 Oakdale Ave.
 Wilkinson, C. M., Engr., Constr. Supt., M. C. Schwab, Cons. Engr., 1514 Mallery Bldg.
 Williamson, C. S., West. Mgr., Mead-Morrison Mfg. Co.
 Wilson, C. E., Asst. Sales Mgr., Internatl. Steam Pump Co.
 Winger, S. D. (Jr.), Sales Engr., Prestolite Co., Inc.
 Wisner, G. M., Ch. Engr., Chicago Drainage Canal.
 Wolf, S., Dist. Mgr., De Laval Steam Turbine Co.
 Wood, T. C., U. S. Insp., Panama Canal of Washington, D. C., 1450 Winona Ave.
 Woodman, G. A., Genl. Mgr., Natl. Car Equip. Co.
 Woodmansee, F., Cons. Engr., Woodmansee & Davidson.
 Woods, M. H. (Jr.), M. E., Bates Valve Bag Co.
 Woodward, A. H., Pres., Internatl. Register Co.
 Worthington, E. H., Sales Engr., Power Spec. Co.
 Yeomans, L. I., Industrial Engr., 72 W. Adams St.
 Zanke, G. J., Dist. Sales Mgr., Am. Engrg. Co.
 Zapp, L. M. (Jr.), A. L. Drum & Co.
 Zimmerman, O. B., Internatl. Harvester Corp.

ILLINOIS (Continued).**Chicago Heights.**—Alger, H. C. (Jr.), Asst. to Genl. Mgr., Kennicott Co.

Dunham, B. W., Ch. Draftsman, Ry. Steel Spring Co.

Hall, H. F., 309 W. 16th St.

Kennicott, C. L., V. P., Genl. Mgr., Kennicott Co.

Vance, W. N., V. P., Durand Steel Locker Co.

Decatur.—Cash, A. W., Charge Reg. Valve and Engrg. Dept., H. Mueller Mfg. Co.

Chamberlain, G. E., Ch. Engr., Genl. Supt., A. E. Staley Mfg. Co.

Klotz, H. J. (Jr.), Operating Engr., Decatur Ry. & Light Co.

Dixon.—Harlow, J. E., M. E., Ill. No. Utilities Co.**East Alton.**—Camp, H. P., Efficiency Engr., West. Cartridge Co.

Olin, F. W., Pres., Equitable Powder Mfg. Co., West. Cartridge Co., West.

Powder Mfg. Co., Pres., Egyptian Powder Co.

East Moline.—Brown, T., Genl. Supt., Marseilles Co.

Houston, G. H., Supt., Root & Van Dervoort Engrg. Co.

Mills, W. C. (Jr.), Draftsman Gas Eng., Root & Van Dervoort Engrg. Co.

Soverhill, H. A., V. P., Genl. Supt., Root & Van Dervoort Engrg. Co., V. P., Moline Auto Co.

Van Dervoort, W. H., Pres., Mgr., Root & Van Dervoort Engrg. Co. and Moline Auto Co.

Elgin.—Ballou, J. L. (Jr.), Geo. G. Nelson, Engr., 23 Sherwin Bldg.

Gabriel, W. A., Ch. Draftsman, Designer, Elgin Natl. Watch Co.

Hunter, G. E., Genl. Supt. Elgin Natl. Watch Co.

Malvern, L. K., M. E., Elgin Natl. Watch Co.

Evanston.—Morgan, D. B., 1124 Asbury Ave.

Philbrick, H. S., Prof. M. E., Northwestern Univ.

Galva.—Hayes, R. W. E., Genl. Mgr., M. E. Designer, Hayes Pump & Planter Co.**Harvey.**—Bourne, R. H., V. P., Asst. Sales Mgr., Whiting Fdy. Equip. Co.

Brandon, G. R., V. P., Genl. Engr., Whiting Fdy. Equip. Co.

Hardy, C. A., Sales Mgr., Whiting Fdy. Equip. Co.

Lawrence, N. S., Ch. Estimating Engr., Whiting Fdy. Equip. Co.

McDougall, A. H., Ch. Engr., Whiting Fdy. Equip. Co.

Prussing, R. E., Engr., Whiting Fdy. Equip. Co.

Hillsboro.—Best, J. L. (Jr.), Ch. Engr., So. Ill. Light & Power Co.**Joliet.**—Bell, J. A., M. M., Ill. Steel Co.

Jonas, M. R. (Jr.), Steam Expt., Ill. Steel Co.

Kankakee.—Mann, H. L., Pres., Treas., Mann Corp.**Kenilworth.**—Curtis, L. E., Cons. Engr.**Kewanee.**—Bannister, J. C., Mgr., Natl. Tube Co.

Bronson, C. E. (Jr.), Asst. M. E., Kewanee Boiler Co.

Cobb, C. C., Jr. (Jr.), Asst. to M. E., Natl. Tube Co.

McCarthy, H., Ch. Draftsman, Natl. Tube Co.

Moore, M. F., Asst. to Pres., Kewanee Boiler Co.

Quirke, E. D., Designer, Checker, Natl. Tube Co.

La Grange.—Bronaugh, W. L., 23 Pine Ave.**La Salle.**—Cypher, O. G., M. E., Matthiessen & Hegeler Zinc Co.

Herrcke, E. A. (Jr.), Asst. Mgr., La Salle Mch. & Tool Co.

Neureuther, A. H. (Jr.), M. E., West. Clock Co.

Lincoln.—Boynton, J. E., Ch. Engr., Am. Brick Co.**Litchfield.**—Williams, C. H.

ILLINOIS (Continued).**Mt. Vernon.**—Collison, T. A., M. E., Mt. Vernon Car Mfg. Co.**Mattoon.**—Clayton, J. P. (Jr.), Mgr. Commer. Dept., Central Ill. Pub. Serv. Co.**Moline.**—Carlson, C. A., Genl. Draftsman, Deere & Co.

Dunkin, W. V., Ch. Draftsman, Exper. Dept., Deere & Co.

Hunt, W. P., Mgr., Moline Tool Co.

Jamieson, Major C. C., Efficiency Engr., Deere & Co.

Mixer, G. W., V. P., Deere & Co.

Rosborough, C. R., Secy., Williams, White & Co.

North Chicago.—Taylor, F. C. (Jr.), Engr., Draftsman, Briggs Chicago Co.**Oak Park.**—Lyons, J. W., 245 Clinton Ave.**Oakland, Coles Co.**—Pemberton, C. (Jr.), Mgr., Macandaruba Tire Filling Co.**Oglesby.**—Fraser, D. R., V. P., Supt., Chicago Portland Cement Co.**Paris.**—Butler, R. G. (Jr.), Eng. Dept., Central Ill. Pub. Serv. Co.**Peoria.**—Brandon, W. J., M. E., Avery Co.

Daniels, G. C., Supt. Power Plant, Central Ill. Light Co.

Harman, J. J., M. E., Harman Engrg. Co.

Norelius, E. F., M. E., Holt Mfg. Co., Inc.

Wallace, R. S., V. P., Genl. Mgr., Central Ill. Light Co.

Wolfner, I. W. (Jr.), Asst. Treas., Natl. Cooperage & Woodenware Co.

Quincy.—Bunting, C. A. deK. (Jr.), Asst. Engr., Ill. Soldiers & Sailors Home.**Riverside.**—Montgomery, S. (Jr.), Industrial and Production Engr.**Rock Island.**—Horst, A. E., Secy., Treas., Henry W. Horst Co.**Rock Island Arsenal.**—Berges, A. H. (Jr.), Mch. Draftsman, U. S. War Dept.**Rockford.**—Barnes, J. S., Supt., V. P., W. F. & John Barnes Co.

Barnes, W. F., 813 N. Main St.

Colman, H. D., Mem. of Firm, Barber-Colman Co.

Ingersoll, W., Pres., Ingersoll Milling Mch. Co.

Spencer, F. C., Designer, J. L. Clark Mfg. Co.

South Chicago.—McLaren, L. L. (Jr.), Steam Engr., Wis. Steel Co.

Roberts, L. C., Ill. Steel Co.

Strale, N. W. (Jr.), Draftsman, Federal Furnace Co.

Springfield.—Brown, O., Pres., Treas., Springfield Boiler & Mfg. Co.

Carlson, C. T., Ch. Engr., Springfield Boiler & Mfg. Co.

Thomas, E. G., M. E., Wilson Tire & Rubber Co.

Sycamore.—Lattin, J., 412 W. High St.**Urbana.**—Benedict, B. W., Dir. Shop Laboratories, Dept. Mech. Engrg., Univ. of Ill.

Brooks, M., Prof. E. E., Univ. of Ill.

Dent, J. A. (Jr.), Assoc. M. E., Univ. of Ill.

Frank, E. (Jr.), Instr. M. E., Univ. of Ill.

Godeke, H. F., Instr. M. E., Univ. of Ill.

Goss, W. F. M., Dean College of Engrg., Dir. Engrg. Exper. Sta., Univ. of Ill.

Harding, L. A., 1103 W. Illinois St.

Kratz, A. P. (Jr.), Asst. in Engrg. Exper. Sta., Univ. of Ill.

Leutwiler, O. A., Asst. Prof. Mch. Design, Univ. of Ill.

McDewell, H. S. (Jr.), Instr. M. E., College of Engrg., Univ. of Ill.

ILLINOIS, Urbana (Continued).

- Miller, H. W. (Jr.), Asst. Dean, College of Engrg., Asst. Prof., Charge of Dept. of Genl. Engrg. Drawing, Univ. of Ill.
 Moore, H. F., Prof. Engrg. Materials, Engrg. Exper. Sta., Univ. of Ill.
 Newell, F. H., Dept. C. E., Univ. of Ill.
 Richards, C. R., Prof. M. E., Charge of Dept., Univ. of Ill.
 Schmidt, E. C., Prof. Ry. Engrg., Univ. of Ill.
 Snodgrass, J. McB., Asst. Prof. Ry. Engrg., Univ. of Ill.
 Talbot, A. N., Prof. Municipal and Sanitary Engrg., Charge Theo. and Applied Mech., Univ. of Ill.
 Vallance, A., Instr. Theo. and Applied Mech., Univ. of Ill.
- Waukegan.**—Banta, J. S., Ch. Draftsman, Am. Steel & Wire Co.
 Ekstrand, L. M., Engr., Chicago Dist., Am. Steel & Wire Co.
- Wilmette.**—Clifford, E. L., 803 Lake Ave.
- Winnetka.**—Herdman, F. E., Mgr., Engr., Water and Light Properties.

INDIANA

- Anderson.**—Scheurmann, W. P., Genl. Mgr., Hill-Tripp Pump Co.
- Brazil.**—Crawford, C. W., Pres., Crawford & M'Crimmon Co.
- Connersville.**—Hicks, George C., Jr., V. P., Ch. Engr., P. H. & F. M. Roots Co.
 Wilkin, J. T., V. P., M. E., Connersville Blower Co.
- East Chicago.**—Graver, A. M. (Jr.), M. E., Wm. Graver Tank Wks.
 Herr, B. M., Night Supt., Edward Valve & Mfg. Co.
 Park, W. M., Asst. Engr., Green Engrg. Co.
 True, C. H., Shop Supt., Loco. Superheater Co.
- Elkhart.**—Hoffman, R. C. (Jr.), M. E., Sun Motor Co.
- Evansville.**—McMullen, V. E., Supt., Hercules Gas Eng. Co.
- Fort Wayne.**—Astrom, J., M. E., 611 W. Wayne St.
 Barrett, W. A. (Jr.), Sales Engr., Bass Fdy. & Mch. Co.
 Feagles, R. L., Deister Mch. Co.
 Guldin, O. N., Pres., Genl. Mgr., West. Gas Constr. Co.
 Muir, J. J., Mech. Supt., Bass Fdy. & Mch. Co.
 Schaefer, F. R. (Jr.), Good Roads Mchy. Co.
 Zimmerman, A. W., Pres., Cons. Engr., Zimmerman Engrg. & Supply Co.
- Fowler.**—Pape, J. O. (Jr.), W. F. Starz & Co.
- Gary.**—Lowell, G. C., Supt. Coke Plant, Ill. Steel Co.
 McArthur, A. R., Res. Engr., Am. Sheet & Tin Plate Co.
 Sponsel, J. G., Asst. to M. M., Am. Bridge Co.
- Hagerstown.**—Teeter, R. R. (Jr.), Engrg. Dept., Light Inspc. Car Co.
- Huntington.**—Beeson, A. C., V. P., Genl. Mgr., Ind. Pipe Line Co.
- Indiana Harbor.**—Bower, W. J. (Jr.), Asst. M. M., Inland Steel Co.
 Hvid, M., Ch. Draftsman, Inland Steel Co.
 Lees, J. W., Genl. Supt., Inland Steel Co.
 Nevius, W. I. (Jr.), Asst. Steam Engr., Inland Steel Co.
 Thompson, D. P., Asst. Genl. Supt., Inland Steel Co.
- Indianapolis.**—Anderson, H. W., Sales Mgr., Stutz Motor Car Co.
 Ballentine, W. I., 955 N. Penn St.
 Bartlett, G. M., M. E., Diamond Chain & Mfg. Co.
 Baxter, H. N. (Jr.), Designing Engr., Lyons-Atlas Co.
 Bixby, A. S., Supt., Natl. Malleable Castings Co.
 Fenstermaker, S. E., Junior Partner, Weinshank & Fenstermaker.
 Hamerstadt, W. D. (Jr.), Engr., Rockwood Mfg. Co.

INDIANA, Indianapolis (Continued).

- Hanley, W. A., M. M., Ch. Engr., Eli Lilly & Co.
 Hurd, C. H., V. P., Indianapolis Water Co.
 Insley, W. H., Pres., Genl. Mgr., Insley Mfg. Co.
 Johnson, L. L., Cons. Engr., 428 Law Bldg.
 Karcher, H. E. (Jr.), Retort Foreman, Am. Creosoting Co.
 Kennedy, H. H. (Jr.), Ch. Engr., Waverly Co.
 Libby, C. L., V. P., Supt. Internatl. Mch. Tool Co..
 Long, L. G., M. E., Fairbanks-Morse Elec. Mfg. Co.
 McMeans, O. E., Cons. Engr., 710 Majestic Bldg.
 Mering, B. G., Industrial Engr., 400 Fletcher Am. Natl. Bank Bldg.
 Millholland, W. K., Pres., W. K. Millholland Mch. Co.
 Nehrbas, F. P., Factory Mgr., Lyons-Atlas Co.
 Pearce, E. S. (Jr.), Spec. Engr., C. C. C. & St. L. Ry.
 Rockwood, G. O., Pres., Rockwood Mfg. Co.
 Rubin, H. E. (Jr.), Salesman, Natl. Dry Kiln Co.
 Sargent, C. E., Ch. Engr., Lyons-Atlas Co.
 Schwartz, H. A., Asst. Supt., Natl. Malleable Castings Co.
 Smith, M. M. (Jr.), Instr. Mch. Design and Shop Math. Vocational Dept.
 Mch. Shop, Tech. High Sch.
 Taylor, W. M., Pres., Chandler & Taylor Co.
 Thomson, P. F., Mgr., Thomson Tool & Supply Co.
 Todd, R. I., Pres., Genl. Mgr., Indianapolis Traction & Terminal Co.
 Wainwright, L. M., Pres., Diamond Chain & Mfg. Co.
 Wall, W. G., V. P., Ch. Engr., Natl. Motor Vehicle Co.
 Wallner, E. P. (Jr.), Nordyke & Marmon Co.
 Warington, J., 271 N. Randolph St.
 Weinsbank, T., Mgr., Warren Webster & Co.
 Wilson, J. A. (Jr.), Spec. Efficiency Wk. Cleveland, Cincinnati, Chicago & St. Louis Ry.
 Wynne, T. A., V. P., Treas., Indianapolis Light & Heat Co.
 Ziegler, L. I., Mgr. Milling Mch. Dept., Nordyke & Marmon Co.

Kokomo.—Davis, F. R., Ch. Engr. Power Plant, Pittsburgh Plate Glass Co.
 Oakley, W. W. (Jr.), Pittsburgh Plate Glass Co.

La Porte.—Crook, G. L., Wks. Mgr., M. Rumely Co.

Lafayette.—Bauer, T., Pres., Genl. Mgr., Lafayette Box Board & Paper Co.
 Benjamin, C. H., Dean Schs. of Engrg., Purdue Univ.
 Cole, A. W., Assoc. Prof. M. E., Purdue Univ.
 Dickerson, H. S., Asst. Prof. M. E., Purdue Univ.
 Dufty, A., M. E., Supt. of Bldgs., Purdue Univ.
 Eyre, T. T., Asst. Prof. M. E., Purdue Univ.
 Golden, M. J., Prof. Practical Mech., Purdue Univ.
 Jamison, A. P. (Jr.), Prof. Mech. Drawing, Purdue Univ.
 King, G. C., Asst. in Mch. Design, Purdue Univ.
 Ludy, L. V., Prof. Exper. Engrg., Purdue Univ.
 Munro, G. W., Asst. Prof. M. E., Purdue Univ.
 Nottingham, A. R., M. E. Dept., Purdue Univ.
 Turner, W. P., Prof. Practical Mech., Purdue Univ.
 Veal, C. B., Prof. Mch. Design, Purdue Univ.
 Wallace, L. W., Assoc. Prof. Car and Loco. Design, Purdue Univ.
 Young, G. A., Head of Dept. M. E., Purdue Univ.

Lebanon.—Riggs, J. D. (Jr.), Indestructible Wheel Co.

Mishawaka.—Ahara, E. H., Genl. Supt., Dodge Mfg. Co.
 Knorr, K. W., Mem. Engrg. Staff, Dodge Mfg. Co.
 Mix, M. W., Pres., Mgr., Dodge Mfg. Co.
 Roe, W. E., Ch. Engr., Dodge Mfg. Co.

INDIANA (Continued).**Muncie.**—Johnson, A. L., Pres., Warner Gear Co.**Oaktown.**—Hoke, C. C.**South Bend.**—Case, G. H., 1435 S. Michigan St.

Clark, D., Wks. Mgr., South Bend Watch Co.

Johnson, H. D., Jr. (Jr.), Ch. Engr., Studebaker Corp.

Terre Haute.—Peddle, J. B., Prof. Mch. Design, Rose Poly. Inst.

Wagner, F. C., Prof. M. and E. E., Rose Poly. Inst.

Wischmeyer, C., Asst. Prof. Drawing and Mch. Design, Rose Poly. Inst.

Union City.—Harlan, O. K., 811 W. Oak St.**Vincennes.**—Thomas, J. M. (Jr.), 825 N. 6th St.**IOWA****Ames.**—Cleghorn, M. P., Assoc. Prof. M. E., Ia. State College.

Major, C. C., Assoc. Prof. M. E., Ia. State College.

Cedar Falls.—Johnson, J. P., care of J. Johnson, 1220 Washington St.**Charles City.**—Willson, E. M., Ch. Draftsman, Hart-Parr Co.**Clinton.**—Stebbins, C. B., 506 Melrose Court.**Davenport.**—Backer, E. F., Charge New Designs and Exper. Wk., Davenport
Loco. Wks.

Barger, L. W., Ch. Draftsman, Davenport Loco. Wks.

Denman, B. J., Asst. Genl. Mgr., United Light & Rys. Co.

Hayward, E. L., V. P., Eagle Lumber Co.

Des Moines.—King, M. L., 1006 33d St.

Simpson, G. T., Cons. Engr., 602 Iubbell Bldg.

Struckmann, E., Supt., Ia. Portland Cement Co.

Vincent, G. I., Engr., Des Moines Gas Co.

Dubuque.—Gates, G. D., M. E., A. Y. McDonald Mfg. Co.**Iowa City.**—Wilbur, R. S. (Jr.), Instr. M. E., State Univ. of Ia.

Woodward, S. M., Prof. Mech., State Univ. of Ia.

Keokuk.—Elliott, E. G., Engr., River Smelting & Refining Co.**Marshalltown.**—Hook, J. W., Sales Mgr., C. A. Dunham Co.

Ingalls, F. D. B., Ch. Htg. and Vent. Engr., C. A. Dunham Co.

Mason City.—Bailey, E. D., Supt. Power and Equip., Northwestern States
Portland Cement Co.**Oelwein.**—Stubbs, F. W., M. E., Chicago Great West. R. R. Co.**Perry.**—Reasoner, R. B.**Sioux City.**—Broom, B. A., M. E., 500 United Bank Bldg.**Waterloo.**—Burt, A., Mgr., Citizens Gas & Elec. Co.

Menges, T. C., Genl. Supt., Associated Mfrs.' Co.

Plumb, H. B., Wks. Mgr., Ia. Dairy Separator Co.

Roudebush, R. E., Ch. Draftsman, Armstrong Mfg. Co.

KANSAS**Caney.**—Ames, John McE., Pres., Kanotex Refining Co.**Chanute.**—Coburn, R. G. (Jr.), 19 S. Central St.**Horton.**—Beyer, O. S., Jr. (Jr.), Genl. Foreman, Rock Island Lines.**Hutchinson.**—Rutherford, G. S., Mgr., Kan. Chem. Mfg. Co., Solvay Proc-
ess Co., Lessee.

KANSAS (Continued).**Independence.**—Sulentic, S. A., M. E., Prairie Pipe Line Co.**Iola.**—Brown, W. E. (Jr.), Ch. Draftsman, United Iron Wks. Co.

Chevalier, LaR. B., Supt., United Iron Wks. Co.

Norvig, J., Supt., Iola Portland Cement Co.

Swiggett, C. A. (Jr.), M. E., Asst. Supt., Iola Portland Cement Co.

Kansas City.—Edgerton, L. B., M. E., Philadelphia Quartz Co.**Lawrence.**—Shaad, G. C., Prof. E. E., Univ. of Kan.

Sibley, F. H., M. E., Univ. of Kan.

Sluss, A. H., Asst. Prof. M. E., Univ. of Kan.

Walker, P. F., Dean Sch. of Engrg., Prof. M. E., Univ. of Kan.

Liberal.—Burleigh, W. H. (Jr.).**Manhattan.**—Bowerman, M. R., Instr. Mch. Design, Kan. State Agri. College.

Carson, W. W., Assoc. Prof. Shop Practice, Supt. of Shops, Kan. State Agri. College.

Freeman, P. J., Asst. Prof. Applied Mech., Engrg. Div., Kan. State Agri. College.

Potter, A. A., Dean Div. of Engrg., Prof. Steam and Gas Engrg., Kan. State Agri. College.

Seaton, R. A., Prof. Applied Mech. and Mch. Design, Kan. State Agri. College.

Newton.—Brady, L. J. (Jr.), 715 N. Oak St.**Parsons.**—Maddocks, W. H., Asst. Supt. Mch. and Equip., M. K. & T. Ry.**Topeka.**—Bohnstengel, W. (Jr.), Asst. to Engr. of Tests, Atchinson, Topeka & Santa Fe Ry.

Rush, E. S. (Jr.), Testing Dept., Atchinson, Topeka & Santa Fe Ry.

KENTUCKY**Ewing.**—Peratt, W. H. (Jr.).**Hazard.**—English, H. K., V. P., Blue Grass Coal Corp.**Lexington.**—Anderson, F. P., Prof. M. E., Dean and Dir. College of M. and E. E., State Univ. of Ky.

Cassidy, P. R. (Jr.), Asst. Prof. Thermodynamics, State Univ. of Ky.

Louisville.—Cox, M. F., Asst. Supt. Mch., Louisville & Nashville R. R. Co.

Fortney, C. P., Asst. Engr., U. S. A. Engrs.

Grady, W. H., Asst. Genl. Supt., Am. Creosoting Co.

Harries, Genl. G. H., 311 W. Chestnut St.

Herb, A. (Jr.), M. E., J. Schwarzwald & Sons.

Isert, J. G. II., Genl. Supt., M. E., The Pyne Co.

Lawrence, S. E. (Jr.), Junior M. E., U. S. Engrg. Dept.

Schmiedeknecht, V. E., Designer, Pneu. Jack Co.

Speed, W. S., Pres., Louisville Cement Co.

Vogt, C. W. (Jr.), 1382 S. 3d St.

Newport.—Hornung, G., Cons. Engr., Woolsack Bldg.

Nielandt, T., Supt., Mech. Dept., Andrews Steel Co., Newport Rolling Mill Co.

LOUISIANA**Adeline.**—Sprague, B. O., Genl. Mgr., Adeline Sugar Factory Co.**Amite.**—Lewis, F. J.

LOUISIANA (Continued).**Baton Rouge.**—Kerr, E. W., Prof. M. E., La. State Univ.**Cinclare.**—Whipple, W., Supt., Cinclare Central Factory.**Lake Charles.**—Chalkley, H. G., Mgr., Engr., North Am. Land & Timber Co.**Lake Providence.**—Hider, G. T. (Jr.).**Morgan City.**—Pharr, E. A.**New Orleans.**—Beck, J. D., M. E., 2331 Constance St.

Black, A. L., Engr., Ford, Bacon & Davis.

Borde, G. U., Cons. Engr., 820-822 Hibernia Bldg.

Burwell, R. T., Ch. Insp. Gulf Dept., Hartford Steam Boiler Insp. & Ins. Co.

Castanedo, W., Dist. Mgr., Power Plant Equip., 1103 Hennen Bldg.

Davis, G. H., Mem. of Firm, Ford, Bacon & Davis of New York.

Gray, J. R., Genl. Supt., La. State Rice Milling Co.

Gregory, W. B., Prof. Exper. Engrg., Tulane Univ., Irrigation Engr., U. S. Dept. of Agri.

Hutson, H. L., Ch. Engr., Secy., A. M. Lockett & Co., Ltd.

Ivens, E. M. (Jr.), Asst. Mgr., Skinner Eng. Co.

Jahncke, E. L., Pres., Jahncke Navigation Co.

Johnson, W., Cons. Engr., 122 Carondelet St.

Lockett, A. M., Pres., A. M. Lockett & Co., Ltd.

McKinney, E. B., Sr., Supt. of Power, New Orleans Ry. & Light Co.

McMillan, C. M. (Jr.), Purchasing Agt., Jahncke Navigation Co.

Murphy, J. H., Mfr. and Contr. Engr., John H. Murphy Iron Wks.

Nelson, B. S. (Jr.), A. M. Lockett & Co.

Porter, H. P., Engrg. Salesman, A. M. Lockett & Co., Ltd.

Raymond, A., Genl. Mgr., Drainage, 503 City Hall Annex.

Rugan, H. F., Assoc. Prof. Mech. Arts, Tulane Univ.

Snypp, C. E., Dist. Engr., So. Cotton Oil Co.

Von Phul, G. D., Contr. M. E., 322 Hibernia Bank Bldg.

von Phul, W., Mem. of Firm, Ford, Bacon & Davis.

Olivier.—Pharr, H. N., Sugar Planter and Mfr., Iberia Parish.**Sulphur.**—Browning, F. H., M. E., Union Sulphur Co.

Henning, J. L., Asst. Mgr., Union Sulphur Co.

MAINE**Bangor.**—Rowe, G. F., M. E.**Bath.**—Hyde, J. S., Pres., Genl. Mgr., Bath Iron Wks.**Biddeford.**—Blake, E. E., Agt., Saco-Lowell Shops.**Brunswick.**—Eaton, R. W., Agt., Cabot Mfg. Co.**Cumberland Mills.**—Schumaker, J. S., Ch. Engr., Mech. Supt., S. D. Warren & Co.

Terry, K. E., Jr., Supt. of Power, S. D. Warren & Co.

Lewiston.—Bates, D. M., Agt., Lewiston Bleachery & Dye Wks.

Mullaney, J. E. (Jr.), Engr., Lewiston Bleachery & Dye Wks.

Wilson, C. W. (Jr.), 83 Wood St.

Lincoln.—Copeland, S. B. (Jr.), Mech. Supt., Katahdin Pulp & Paper Co.

Patten, E. L. O. (Jr.), Asst. Mech. Supt., Katahdin Pulp & Paper Co.

Orono.—Lekberg, C. H., Asst. Prof. M. E., Univ. of Me.

Palmer, P. B., Genl. Supt., Orono Pulp & Paper Co. of Bangor.

Robbins, N. A., Ch. Engr., M. M., Orono Pulp & Paper Co.

Sweetser, W. J., Charge Dept. M. E., Univ. of Me.

MAINE (Continued).

Portland.—Hammett, P. M., Supt. M. P., Me. Central R. R. Co.
 Manker, F. W. (Jr.), Moulton Engr. Corp.
 Moulton, S. A., Cons. Engr., Moulton Engr. Corp.

Scarborough.—Jordan, S. S., Naval Arch. and Engr.

South Brewer.—Little, A. L., Mech. Supt., East. Mfg. Co.

Waterville.—Fales, D. A. (Jr.), Hollingsworth & Whitney Co.
 Marr, G. H., M. E., Hollingsworth & Whitney Co.
 Philbrick, F. B., Pres., Waterville Iron Wks.

MARYLAND

Annapolis.—Cole, W., M. E., Engr. Exper. Sta., U. S. Naval Academy.
 De Baufre, W. L., M. E., U. S. Naval Engr. Exper. Sta.
 Johnson, T. W., Prof. Math., U. S. Naval Academy.
 Reed, C. M. (Jr.), Engr. Observer, U. S. Naval Engr. Exper. Sta.
 Rittenour, F. H., Draftsman Dept. of Marine Engr. and Naval Constr.,
 U. S. Naval Academy.

Stuart, M. C. (Jr.), M. E., U. S. Naval Engr. Exper. Sta.

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 Brandes, W. P. (Jr.), Engr., H. S. Kerbaugh, Inc.
 Brown, J. W., Jr., Cons. Engr., 1501 Continental Trust Bldg.
 Buckler, A. (Jr.), care of Lighthouse Insp.
 Bushnell, H. C., 1310 Continental Trust Bldg.
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 Cilley, R., Crown Cork & Seal Co.
 Clapp, R. B. (Jr.), Sales Engr., City Garage.
 Clark, F. H., Genl. Supt., M. P., B. & O. R. R.
 Cottman, L. W., Supt., Ch. Engr., Palmetto Phosphate Co.
 Cromwell, O. C., M. E., B. & O. R. R. Co.
 Cross, W. J., Bartlett Hayward Co.
 Detrick, J. S., Pres., Detrick & Harvey Mch. Co.
 Deverell, H., Pres., Deverell, Spencer & Co.
 Evans, H. A., V. P., Genl. Mgr., Baltimore Dry Docks & Ship Bldg. Co.,
 Locust Point.
 Fast, G., Mgr., Turbo-Gear Co.
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 Calvert Bldg.
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 Gardner, H., Supvr. Material Reclamation, B. & O. R. R. Co.
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 Kennedy, A., V. P., Genl. Mgr., L. H. Miller Safe & Iron Wks.
 Kryzanowsky, C. J., Wks. Mgr., Ch. Engr., Crown Cork & Seal Co.
 Lewis, J. E. (Jr.), Cons. Engr., 1601 Moreland Ave.
 Loizeaux, A. S., E. E., Supt. Constr., Consld. Gas, Elec. Light & Power Co.
 Luehrs, D. M. (Jr.), Genl. Supt. Guilford Plant, Crown Cork & Seal Co.
 Meade, R. K., Chem. and Industrial Engr., Cons. Practice, 202 N. Calvert St.
 Mitchell, G. K., Prop., Stand. Elec. & Elev. Co.
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 Pennington, J. H., Supt. Constr. and Power, Am. Smelting & Refining Co.
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 Powell, P. R. (Jr.), Designer, Bartlett Hayward Co.
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 Roberts, A. L., Designing Engr., Crown Cork & Seal Co.
 Sandman, A. G., Ch. Draftsman M. P. Dept., B. & O. R. R. Co.
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 Scott, J. B., Cons. Engr., 745-751 Calvert Bldg.
 Straus, W. R. (Jr.), Asst. Supt. Rolling Mill, Baltimore Copper Wks.
 Thomas, C. C., Prof. M. E., Johns Hopkins Univ.
 Tillman, R. H., Industrial Engr., Consld. Gas, Elec. Light & Power Co.
 Varney, W. W., M. E., Atty-at-Law, 1221 Calvert Bldg.
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 Wagner, F. H., Ch. Engr., Bartlett Hayward Co.
 Walden, A. E., Supt., Ch. Engr., Baltimore Co. Water & Elec. Co.
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 Muncaster, W. J., V. P., Genl. Mgr., Cumberland Steel Co.
- Curtis Bay.**—Mantius, O., Cons. Engr., U. S. Industrial Alcohol Co.
- Frostburg.**—Tuvin, J. H. (Jr.).
- Garrett Park.**—Rucker, B. P., Cons. Engr.
- Hagerstown.**—Whipple, C. E., Genl. Mgr., Treas., N. Y. Central Iron Wks. Co.
- Sparrows Point.**—Hollmann, F. W., M. M., Md. Steel Co.
 Lane, H. C., Ch. Draftsman, Md. Steel Co.
 Robertson, L. B., Supt. Coke Dept., Md. Steel Co.
 Wood, F. W., Pres., Md. Steel Co.
- Thurmont.**—Middleton, H., Cons. Engr.

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 Pratt, F. R., M. M., Ch. Engr., Berkshire Cotton Mfg. Co.
- Allerton.**—Rivett, E.
- Arlington.**—Schwamb, P., Treas., Theodore Schwamb Co.
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 McGregor, J. A., Pres., Union Twist Drill Co.
 Simpson, R. J. O., Supt., M. E., L. S. Starrett Co.
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 Tuttle, W. I. (Jr.), Secy., Treas., Asst. Genl. Mgr., Frank Mossberg Co.
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- Beverly.**—Dyson, E. E. (Jr.), Draftsman, United Shoe Mchy. Co.
 Hadaway, J. B., Charge Exper. Dept., United Shoe Mchy. Co.
 Leslie, B. S. (Jr.), Asst. to Supt. of Factory, United Shoe Mchy. Co.

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 Allison, L. M. (Jr.), Ch. Draftsman, Sturtevant Aeroplane Co., Jamaica Plain.
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 Andrew, J. D., 39 Boylston St.
 Andrews, D. H., Pres., Boston Bridge Wks., Inc.
 Ash, H. W., M. E., Head of Engrg. Dept., Warren Bros. Co.
 Ashton, A. C., Treas., Ashton Valve Co.
 Ayres, R. S. (Jr.), Industrial Engr., Rice & Hutchins, Inc.
 Babbitt, A. B., Head of Dept. Drawing and Design, Wentworth Inst.
 Bailey, E. G., Pres., Bailey Meter Co.
 Bancroft, C. F., V. P., Manchester Elec. Co., E. E., Mass. Elec. Cos., Supt.
 M. P. and Mchy., Bay State St. Ry. Co.
 Barnes, W. E., V. P., East. Mgr., Consld. Engrg. Co.
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 Bartlett, C. H., V. P., Chas. A. G. Winther Co., Inc.
 Bartlett, E. E., Mfr., 326 A St.
 Bartlett, H., Genl. Mech. Supt., Boston & Me. R. R., North Sta.
 Bates, E. C., 122 Marlboro St.
 Beaman, P. A., M. E., Manufacturers Equip. Co.
 Behrend, B. A., Cons. Engr., 200 Devonshire St.
 Berrenberg, R., Secy., Genl. Mgr., Am. Rotary Pump Co.
 Bjork, C. G., Mech. Designer, Stone & Webster Engrg. Corp.
 Bockius, C. A., Asst. M. E., Fuel Testing Co.
 Bowers, G. W., Mech. and Cons. Engr., 53 Devonshire St.
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 Braman, S. N., 33 Pearl St.
 Bridges, L. W., M. E., Charles H. Tenney & Co.
 Brigham, E. F., M. E., N. E. Confectionery Co.
 Brown, C. W., Industrial Power Specialist, Stone & Webster Management Asso.
 Brown, H. S. (Jr.), N. E. Sales Mgr., Power Spec. Co.
 Brown, H. W. (Jr.), Asst. Engr., Am. Agri. Chem. Co.
 Bump, A. E., Mgr. Constr. and Mech. Depts. East. Dist., Swift & Co.
 Burleigh, C. B., Dist. Mgr. Ltg. Dept., Genl. Elec. Co.
 Burleigh, W. S. (Jr.), Inspr., Underwriters' Labs.
 Burnham, H. A., Engr. Spec. Inspr., Factory Mutual Fire Ins. Cos.
 Burrage, C. W. (Jr.), Asst. in M. E., Mass. Inst. of Tech.
 Bushnell, F. N., V. P., Engrg. Mgr., Stone & Webster Engrg. Corp.
 Calder, J., Engr., Willett, Sears & Co.
 Carhart, A. B., Supt., Crosby Steam Gage & Valve Co.
 Carleton, R. A., Inspr. of Constr., Edison Elec. Ill. Co. of Boston.
 Cargill, W. N., Lumsden & Van Stone Co.
 Chamberlain, A. B., Engr. Steam Div., Sta. Engrg. Dept., Edison Elec. Ill. Co. of Boston.
 Chandler, C. A., 31 State St.
 Chapman, D. A., Mech. Supt., Wm. Filene's Sons Co.
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 Choate, W. E., Genl. Mgr., Advance Mch. Co.
 Churchill, C. O., Salesman, Lackawanna Steel Co.
 Clark, E. H. (Jr.), First Asst. Engr. Bldg. and Power Dept., Mass. Inst. of Tech.
 Clark, E. L., Office Mgr., Westinghouse Mch. Co.
 Clark, F. S., Engr., Stone & Webster Engrg. Corp.
 Clarke, A. F., Priest, Page & Co.

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 Cohen, A. S., M. E., C. L. Howes, 514 Atlantic Ave.
 Cole, F. B., Prin. Asst. Engr., Chas. T. Main, 201 Devonshire St.
 Collins, B. R. T., Ch. Engr., Spray Engr. Co.
 Colwell, A. W., Rm. 405, 79 Milk St.
 Cope, R. H. (Jr.), Sales Engr., Taylor-Wharton Iron & Steel Co.
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 Crosby, W. W., 40 Central St.
 Curtis, R. E., Edison Elec. Ill. Co. of Boston.
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 Daggett, H. C., N. E. Mgr., S. Morgan Smith Co.
 Davis, A. R. (Jr.), Ch. Draftsman, Gray & Davis, Inc.
 Davis, H. H., Office Mgr., Fuller Bros. & Co.
 Dawes, H. N., V. P., Nightingale & Childs Co., Pres., Cerro Gordo Fruit Co., V. P., Putnam-Morrill Co.
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 Dean, F. W., Mill Engr., Arch., 53 State St.
 De Lany, G. S., Genl. Mgr., Rivett Lathe & Grinder Co., Brighton.
 Densmore, E. D., Engr., Arch., Densmore & LeClear.
 DeWolf, J. O., Mech. and Mill Engr., 19 Milk St.
 Dillon, R. E. (Jr.), Tech. Engr., Edison Elec. Ill. Co. of Boston.
 Dow, B. W. (Jr.), Sales Mgr., Wilson & Snyder Centrifugal Pump Co.
 Dowst, F. B., West Roxbury.
 Driver, A. (Jr.), Tool Designer, Gray & Davis, Inc.
 Duncan, A. G., Treas., Harmony Mills.
 Durfee, W. C., Cons. and Mfg. Chem., 516 Atlantic Ave.
 Dusossoit, O., Res. Agt., Hohmann & Maurer Mfg. Co.
 Edgar, C. L., Pres., Genl. Mgr., Edison Elec. Ill. Co. of Boston.
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 Eldredge, A. H., N. E. Cons. Engr., North Packing & Provision Co.
 Elmer, N. W., Engr., The Lamson Co.
 English, W. T., Pres., Walworth-English-Flett Co.
 Evans, H. W., Mgr. Power Piping Dept., Walworth Mfg. Co.
 Fairbanks, F. L., Ch. Engr., Quincy Market Cold Storage & Warehouse Co.
 Fallon, J. B. (Jr.), Treas., Stickney & Poor Spice Co.
 Farrar, C. O., Supt. Constr., Otis Elev. Co.
 Fine, B. M. (Jr.), Ch. Tool Designer, Am. Steam Gage & Valve Mfg. Co.
 Fish, C. H., 85 Devonshire St.
 Fisher, H. D., M. E., Bailey Meter Co.
 Flather, F. A., Treas., Boott Mills.
 Foley, L. H. (Jr.), Stone & Webster Engr. Corp.
 Ford, W. L., N. E. Sales Mgr., Murphy Iron Wks.
 Ford, W. D., Mech. and Sales Engr., Internatl. Steam Pump. Co.
 Freeman, C. F. (Jr.), Dorchester Dist., Boston Insulated Wire & Cable Co.
 Freeman, F. S., Supt. Power Operation, Boston Elev. Ry. Co.
 French, E. V., V. P., Engr., Arkwright Mut. Fire Ins. Co.
 Fuller, C. E., Prof. Theo. and Applied Mech., Mass. Inst. of Tech.
 Fulton, A. O. (Jr.), Mgr. Hy Ten Steel Dept., Wheelock Lovejoy & Co.
 Galloupe, F. E., M. E., 335 Old South Bldg.
 Gleason, G. H., Dodge Mfg. Co., 137 Purchase St.
 Goodenough, W. Mgr., Keokuk Div., Stone & Webster Engr. Corp.
 Gooding, C. S., M. E., Solicitor Patents, 27 School St.
 Green, H. L. (Jr.), Industrial Engr., Clinton H. Scovell & Co.
 Greene, E. L., Pres., Lockwood, Greene & Co.

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 Hartwell, H. B. (Jr.), Ch. Draftsman, Crosby Steam Gage & Valve Co.,
 Charlestown.
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 Haven, H. M., Mem. of Firm, F. W. Dean, Inc.
 Hayes, F. H., Mem. of Firm, F. H. Hayes Mch. Co.
 Hayes, J. H. (Jr.), Mem. of Firm, F. H. Hayes Mch. Co.
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 Heermann, F. M., Engr., Spec. Insp., Factory Mut. Fire Ins. Cos.
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 Herrick, D. A. (Jr.), Supt., Julian d'Este Co.
 Higgins, G. F., Treas., Gem Stamped Steel Co.
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 Hobbs, F. W., Pres., Exec. Officer, Arlington Mills.
 Hogan, P. H., N. E. Mgr., Dearborn Chem. Co.
 Hogue, O. D., 550 Tremont Bldg.
 Hosmer, S., E. E., Edison Elec. Ill. Co. of Boston.
 Hossack, A. B. (Jr.), Am. Appraisal Co.
 Hoxie, F. J., Engr., Spec. Insp., Asso. Factory Mut. Ins. Cos.
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 Hunter, C. W., Gas Engr., Stone & Webster Engrg. Corp.
 Hurdell, V. H. (Jr.), Salesman, Internatl. Steam Pump Co.
 Hurxthal, A. O. (Jr.), Salesman, Lunkenheimer Co.
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 Wm. B. Jackson, Chicago, Ill.
 Jackson, H. D., Cons. Engr., 88 Broad St.
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 Co.
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 Jennings, E. M. (Jr.), Jarvis Engrg. Co., Sales Agt., Parson Mfg. Co.
 Johnson, J. W. (Jr.), Engrg. Dept., Am. Agri. Chem. Co.
 Johnston, W. A., Prof. Theo. and Applied Mech., Mass. Inst. of Tech.
 Kaven, M. B., Genl. Supt., United Shoe Mch. Co.
 Kellogg, A. S., Cons. Engr.
 Kendrick, Hon. P. H., Parker House.
 Keough, W. T., Business Agt., Boston Public Schs.
 Kilgour, D. F., M. E. for Chas. E. Cotting, Trustee, 11 Pemberton Sq.
 Kimball, R. D., 6 Beacon St.
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 Wentworth Inst.
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 Lacount, H. O., Engr., Asst. Secy. Inspec. Dept., Asso. Factory Mut. Fire
 Ins. Cos.
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 Leland, S. D., Pres., Genl. Mgr., Mfg. Equip. & Engrg. Co.
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 Little, A. D., Chem. Engr., Pres., Mgr., Arthur D. Little, Inc.
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 Loring, E. J., Lamson Co.
 Loring, H., Jr., Rm. 622, 53 State St.
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 Miller, E. F., Prof. Steam Engrg., Mass. Inst. of Tech.
 Monaghan, J. F., Cons. Engr., Rm. 401, 79 Milk St.
 Monks, A. G., Partner, Monks & Johnson.
 Moody, H. L. (Jr.), Salesman, Westinghouse Mch. Co.
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 Morse, R. G., Treas., Asst. Mgr., Rivett Lathe & Grinder Co.
 Morse, W. A., Engrg. Dept., Lamson Co.
 Morss, E., Pres., Simplex Wire & Cable Co.
 Morss, H. A., V. P., Simplex Wire & Cable Co., V. P., The Morss & Whyte Co.
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 Mosman, C. T., Dist. Engr., Genl. Elec. Co.
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 Moyer, J. A., Dir. Extension Serv., Mass. Bd. of Education.
 Neagle, R. J. (Jr.), Edison Elec. Ill. Co. of Boston.
 Newhall, A. B. (Jr.), Instr. Applied Science, Wentworth Inst.
 Norton, C. L., Prof. Heat Measurements, Mass. Inst. of Tech.
 Olson, C. A., Wks. Mgr., Walworth Mfg. Co.
 Olson, M. L., Instr. Mech. Drawing, Hyde Park H. S.
 Osteman, C. G., M. E., S. A. Woods Mch. Co.
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 Palmer, G. W., Jr., E. E., Bay State St. Ry. Co.
 Park, C. F., Prof. Mech., Dir. Mech. Labs., Mass. Inst. of Tech.
 Park, W. R., Cons. Engr., Hancock Inspirator Co.
 Parker, C. H., Asst. Supt. Generating Dept., Edison Elec. Ill. Co. of Boston.
 Parker, L. H., Pres., Spray Engrg. Co.
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 Perry, F. B., Mill Power Dept., Genl. Elec. Co.
 Phillips, L. R. (Jr.), Mech. Asst. Constr. Dept., Swift & Co.
 Pope, J., Engr., Stone & Webster Engrg. Corp.
 Powell, E. B., M. E., Stone & Webster Engrg. Corp.
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 Richardson, E. B., Partner, Richardson & Hale.
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 Robertson, C. J., M. E., United Printers Mchy. Co.
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 Rockwell, W. F. (Jr.), Cons. Engr., Clinton H. Scovell & Co.
 Russell, W. B., Dir., Franklin Union.
 Schell, E. H. (Jr.), 238 Hemenway St.
 Scovell, C. H., Industrial Engr., Clinton H. Scovell & Co.
 Seymour, J. W. (Jr.), Office Mgr., C. & G. Cooper Co.
 Shedd, F. E., V. P., Ch. Engr., Lockwood, Greene & Co.
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 Snow, W. G., N. E. Mgr., Warren Webster & Co. of Camden, N. J.
 Spofford, H. H. R. (Jr.), Sales Engr., Schutte & Koerting Co.
 Starbuck, G. F. (Jr.), Draftsman, Boston Elev. Ry.
 Starkweather, W. G., N. E. Mgr., C. H. Wheeler Mfg. Co., and A. L. Ide & Sons.
 Stevens, E. M., N. E. Mgr., Nashua Mch. Co.
 Stevens, H. L., Dist. Sales Mgr., Lackawanna Steel Co.
 Stewart, C. E. (Jr.), Cons. Engr., Gasoline Eng., Head Dept. Auto. Instr., Franklin Union.
 Stoddard, C. J., Ch. Insp., Employers' Liability Assurance Corp., Ltd.
 Stoddard, G. H., Treas., Mgr., Quincy Market Cold Storage & Warehouse Co.
 Stone, C. A., Mem. of Firm, Stone & Webster Engr. Corp.
 Sturgess, J., N. E. Agt., McIntosh & Seymour Corp.
 Taft, T. H., Asst. Prof. M. E., Mass. Inst. of Tech.
 Tallmadge, W., Power Engr. Serv. Dept., Westinghouse Elec. & Mfg. Co.
 Taylor, D. M., Instr. M. E., Mass. Inst. of Tech.
 Taylor, W. C. (Jr.), Engr., Am. Steam Gage & Valve Mfg. Co.
 Teague, W. O., Engr., Insp., Associated Factory Mutual Fire Ins. Cos.
 Tenney, A. B., V. P., Charles H. Tenney & Co.
 Thanisch, R. J., Asst. Engr., City of Boston.
 Thompson, C. B., Cons. Management Engr., Gray & Davis, Inc.
 Thompson, R. E., Factory Supt., Gillette Safety Razor Co.
 Timbie, W. H., Head of Dept. Applied Science, Wentworth Inst.
 Uhl, W. F., Hyd. Engr., Charles T. Main, Rm. 819, 201 Devonshire St.
 Van Stone, C., V. P., Lumsden & Van Stone Co.
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 Walworth, A. C., Pres., Malleable Iron Fittings Co. of Branford, Conn.
 Warner, R. L., Banker, Warner, Tucker & Co.
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 Weld, A. O., M. E., George A. Weld Co.
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 Williams, F. B., M. E., Lamson Co.
 Williston, A. L., Prin., Wentworth Inst.
 Williston, B. T., Wks. Mgr., United Injector Co.
 Winsor, P., M. and E. E., Ch. Engr., Boston Elevated Ry. Co.
 Winther, C. A. G., Pres., Mgr., Chas. A. G. Winther Co.
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 Wyman, D. M. (Jr.), Job Supt., Aberthaw Constr. Co.
- Bridgewater.**—Field, A. F., Jr., Asst. to Mgr., Stanley Wks.
- Brockton.**—String, J. S. (Jr.), Mgr., Brockton Gas Light Co.
 Washburn, W. S., 1363 Main St., Campello Sta.
- Brookline.**—Appleton, C. B., M. E., Netherlands Rd.
 Hussey, O. S., 201 Davis Ave.
 Kenrick, A. E., Kenrick Bros.
 Newcomb, E. C., Cons. Engr., Inventor, Holtzer-Cabot Elec. Co., Am. Locó. Co.
 Pendergast, R. B., 33 Summit Ave.
 Wadsworth, G. R., 37 Philbrick Rd.
- Cambridge.**—Alden, F. A., Cons. Engr., 60 Gorham St.
 Blakeman, W. W., Supt., Blanchard Mch. Co.

MASSACHUSETTS, Cambridge (Continued).

- Burke, W. S., Harvard College.
 Crothers, C. E., Jr. (Jr.), M. E., 1663 Cambridge St.
 Dunn, C. W., Robert W. Hunt & Co.
 Gale, H. B., Ch. Engr., Simplex Electric Heating Co.
 Gay, H., Equip. Engr., Stone & Webster Engrg. Corp.
 Griffin, P. K., Mech. Draftsman, Stone & Webster Engrg. Corp.
 Juthe, K. A., N. E. Rep., Firth-Sterling Steel Co.
 Kennedy, F. L., Asst. Prof. Engrg. Drawing, Harvard Univ.
 Leavitt, E. D., Cons. Engr., Ret., 33 Garden St.
 Long, J. C., Ch. Engr., Boston Woven Hose & Rubber Co.
 Markham, E. R., Instr. M. E., Harvard Univ., and Rindge Tech. Sch.
 Marks, L. S., Prof. M. E., Harvard Univ.
 Mellen, E. D., 1590 Massachusetts Ave.
 Nelson, E. H., Ch. Draftsman, Geo. F. Blake Mfg. Co.
 Nicholl, J. S. (Jr.), Pres., Riverside Boiler Wks., Inc.
 Norton, A. E., Asst. Prof. Mech. Drawing, Harvard Univ.
 Pearson, C. I., Mech. Draftsman, Designer, 36 Trowbridge St.
 Platts, C. A., Salesman and Transportation Engr., Kelly-Springfield Motor Truck Co.
 Swain, G. F., Cons. Engr., Chairman Boston Transit Com., Prof. C. E., Harvard Univ.

Chelsea.—Larkin, W. H., Jr., M. E., Revere Rubber Co.

Chicopee.—Jenness, C. H., Instr. Mech. Drawing, Manual Training Dept., Chicopee H. S.

Storms, F. F., Pres., Page-Storms Drop Forge Co.

Dorchester.—Bixby, W. (Jr.), 126 Rosseter St.

Chandler, H. T., Asst. Supt., Walter Baker & Co., Ltd.

Dow, C. E. W., 7 Standish St.

Hawes, J. H., Junior Master, Dorchester High Sch.

Meisel, O. C. F. (Jr.), 10 Upland Ave.

East Boston.—Middleton, P. H., Engr., V. P., Crandall Eng. Co.

Monteagle, R. C., Asst. Mgr., Engr., Lockwood Mfg. Co.

Norris, A. E., Ch. Engr., Mead-Morrison Mfg. Co.

Robinson, E. P., Supt., Atlantic Wks.

Tobey, W. L., Prop., Thermex Silencer Wks.

Wilson, A. H., Mead-Morrison Mfg. Co.

East Bridgewater.—McLean, R. W., M. E., Carver Cotton Gin Co.

Nutter, C. L., Treas., Old Colony Fdy. Co.

East Cambridge.—Aborn, G. P., Mgr., Blake & Knowles Steam Pump Wks.

Murray, A. F., Equip. Engr., Blake & Knowles Steam Pump Wks.

Parker, A. W., M. E., Blake & Knowles Steam Pump Wks.

Worcester, H. E., Supt., Revere Sugar Refinery.

East Walpole.—Amneus, N. A., Mch. Designer, Bird & Son.

Fliegelman, D. (Jr.), M. E., Bird & Son.

Jewett, A. C., Plant Engr., Bird & Son.

Everett.—Dissel, T. A., Mgr., Cameron Appliance Co.

Stevens, A. P., M. M., Ch. Engr., Cochrane Chem. Co.

Fall River.—Gifford, G. N. (Jr.), Asst. M. E., Am. Ptg. Co.

Gilmore, G. P., M. E., Am. Ptg. Co.

Gordon, L. A., Supvg. Engr., City of Fall River.

Henry, W. T., P. O. Box 152.

Fitchburg.—Barnes, W. O., M. E., Iver Johnson Arms & Cycle Wks.

Chastaney, G. D. (Jr.), Asst. Mgr., M. E., Louis Dejonge Co.

MASSACHUSETTS, Fitchburg (Continued).

- Dillon, F. N., Treas., D. M. Dillon Steam Boiler Wks.
 Fosdick, F., Pres., Fitchburg Steam Eng. Co.
 Lowe, W. V., Engrg. and Sales Rep., Hess-Bright Mfg. Co.
 Parks, F. W., Pres., G. M. Parks Co.
 Parks, H. M., V. P., G. M. Parks Co.
 Sheldon, T. C., Secy., Treas., Fitchburg Duck Mills.
 Thompson, A. W., Managing Engr., G. M. Parks Co.
 Wing, C. E., Engr., G. M. Parks Co.
- Framlingham.**—Fitch, W. S., Constr. Engr., Dennison Mfg. Co.
 Macdonald, J. W. F., Ch. Draftsman, Internatl. Engrg. Wks.
- Gardner.**—Watkins, E. G., Charge Engrg. Dept., Heywood Bros. & Wakefield Co.
- Gloucester.**—Trenor, A. D., Engr., Hammond Radio Research Lab.
- Greenfield.**—Bascom, R. S., Supt., A. J. Smart Mfg. Co.
 Hawks, A. S., Box 20.
 Schoof, A. W., Asst. Supt., Wells Bros. Co.
 Smart, C. E., Efficiency and M. E., Greenfield Tap & Die Corp.
 Smith, H. J. (Jr.), Supt., Russell Mfg. Co.
 Wells, F. O., Pres., Wells Bros. Co.
- Holyoke.**—Baldwin, A. W. (Jr.), Engrg. Dept., Deane Steam Pump Co.
 Chase, H. M., M. E., Deane Steam Pump Co.
 Cleveland, F. P., Secy., Treas., B. F. Perkins & Son, Inc.
 Fleming, W. M., Engr. in Charge Drawing Room, Deane Steam Pump Co.
 Metcalf, F. H., Asst. Genl. Mgr., Farr Alpaca Co.
 Newcomb, C. L., Pres., M. E., Genl. Mgr., Deane Steam Pump Co.
 Newcomb, R. E. (Jr.), Asst. Supt., M. E., Deane Steam Pump Co.
 Richardson, A. C. (Jr.), Engrg. Dept., Am. Thread Co.
 Torrance, C. E., Ch. Engr., B. F. Perkins & Son, Inc.
- Hopedale.**—Burbank, L. S., Asst. Ch. Draftsman, M. E. Draper Co.
- Hudson.**—Teele, F. W., 33 Pleasant St.
- Hyde Park.**—Bentley, O. D. H., Mgr., Turbine Dept., B. F. Sturtevant Co.
 Latham, H. M., Mgr. Power Apparatus Dept., B. F. Sturtevant Co.
 Leonard, M. S., Ch. Engr., B. F. Sturtevant Co.
 Squire, R. S. (Jr.), B. F. Sturtevant Co.
 Suck, A., Arch., Engr., 94 Arlington St.
- Indian Orchard.**—Cook, H. H. (Jr.), Engr., Chapman Valve Mfg. Co.
 Nourse, C. L., M. E., Fiberloid Co.
 Shirley, R., Wks. Mgr., Chapman Valve Mfg. Co.
- Ipswich.**—Campbell, J.
- Laneaster.**—Richardson, G. E.
- Lawrence.**—Bolton, J. W., Jr. (Jr.), M. E., John W. Bolton & Sons Co.
 Diman, G. H., Cons. Engr., Wood Worsted Mill.
 Eichler, W. G. (Jr.), Asst. M. E. Worsted Dept., Pacific Mills.
 Emerson, H. B., Supt. Mech. Dept., Arlington Mills.
 Knowlton, W. B., Ch. Draftsman, Am. Woolen Co.
 Mellor, H. L., Pres., Mgr., Lawrence Pump & Eng. Co.
 Parker, W. E., Agt., Pacific Mills.
 Schwarz, F. H. (Jr.), M. E., Lower Pacific Mills.
 Smith, C. P. (Jr.), Worsted Dept., Pacific Mills.
 Whitney, W. S., Supvg. Engr., Am. Woolen Co.
- Lee.**—Stevenson, L. T. (Jr.), Engr., Mountain Mill Paper Co.
- Lexington.**—Watson, F. (Jr.).

MASSACHUSETTS (Continued).

- Lowell.**—Ames, G. E., Meeh. Supt., Lawrence Mfg. Co.
 Benson, H. S. (Jr.), Head of Production Dept., U. S. Cartridge Co.
 Besse, E. E. (Jr.), M. E., Lowell Gas Light Co.
 Cove, J. R., M. M., Mass. Cotton Mills.
 Curley, R. S. (Jr.), M. E., Saco-Lowell Co.
 Hosmer, A. G., Meeh. Supt., Merrimack Mfg. Co.
 Lefrén, K. A. A., Engr., John A. Stevens, 8 Merrimack St.
 Lord, H. C., Engr., John A. Stevens, 8 Merrimack St.
 Milliken, A. D., Agt., Hamilton Mfg. Co.
 Nourse, F., P. O. Box 1236.
 Perkins, G. H., Head Textile Engrg. Dept., Lowell Textile Sch.
 Reeds, C., Cons. Engr., John A. Stevens, 8 Merrimack St.
 Safford, A. T., Asst. Engr., Locks and Canals, Cons. Hyd. Engr., 66
 Broadway.
 Slader, W., M. E., John A. Stevens, 8 Merrimack St.
 Stevens, J. A., Cons. Engr., 8 Merrimack St.
 Thomas, E. W., Agt., Boott Mills.
 Thorpe, G. H., M. E., John A. Stevens, 8 Merrimack St.
 Wentworth, R. A., Supt., Saco-Lowell Shops.
- Ludlow.**—Bennett, G. G., Mill Supt., Ludlow Mfg. Associates.
 Fogler, B. B. (Jr.), Efficiency Engr., Ludlow Mfg. Associates.
 Morrill, H. W., Genl. Supt., Ludlow Mfg. Associates.
 Scott, E. G., Supt. of Power and Repair Shops, Ludlow Mfg. Associates.
 Stevens, S., V. P., Ludlow Mfg. Associates.
 Weidner, P. G., Ludlow Mfg. Associates.
- Lynn.**—Allentuch, J., Jr. (Jr.), Instr., Genl. Elec. Engrg. Sch., Genl.
 Elec. Co.
 Carroll, M. B. (Jr.), Genl. Elec. Co.
 Holman, R. C., Designing Engr., Turbine Dept., Genl. Elec. Co.
 Johnson, W., Asst. Engr. Turbine Dept., Genl. Elec. Co.
 Jones, R. J. (Jr.), Turbine Engrg. Dept., Genl. Elec. Co.
 Loewenstein, L. C., Engr., Genl. Elec. Co.
 Nyrop, M., Genl. Elec. Co.
 Pohle, R. F. (Jr.), Deputy to Mfg. Supt., Genl. Elec. Co.
- Malden.**—Williams, L., Cons. Engr., 27 Rockland Ave.
- Manchester.**—Allen, R. C., Civ. and Cons. Engr.
- Mansfield.**—Bannon, L. M. (Jr.), 121 Oakland St.
- Marblehead.**—Curtis, G. S., Treas., Burgess Co. & Curtis.
- Melrose.**—Brooks, E. C., 353 Grove St.
 Nute, E. L. (Jr.), 34 Granite St.
- Methuen.**—Hartshorne, W. D., Mill Engr., 40 Pleasant St.
- Mittineague.**—Franklin, B. A., V. P., Strathmore Paper Co.
 Konstankewicz, M. J. (Jr.), M. E., Strathmore Paper Co.
 Williamson, G. E., Ch. Engr., Strathmore Paper Co.
- Neponset.**—Hibbard, T., Treas., M. E., Geo. Lawley & Sons Corp.
- New Bedford.**—Cushman, H. E., Treas., Genl. Mgr., Morse Twist Drill &
 Meh. Co.
 Davenport, W. S., Treas., Davenport Meh. Tool Co.
 Earle, F. E., Pres., Treas., F. E. Earle Co.
 Gladding, W. M., Mech. Supt., Morse Twist Drill & Meh. Co.
 Miller, S. G., Prin. Meeh. and Engrg. Dept., New Bedford Textile Sch.
 Reed, F. M., M. E., Morse Twist Drill & Meh. Co.

MASSACHUSETTS (Continued).**Newburyport.**—Abbe, R. H., M. E., Towle Mfg. Co.

Blood, J. B., Cons. Engr., 232 High St.

Newton.—Gentzel, P. H., V. P., Genl. Mgr., Unit Ry. Car Co.**Newton Highlands.**—Hall, K., Cons. Engr., Assoc. of Sanford E. Thompson, care of The Eastern Mfg. Co., Bangor, Me.

Lichtner, W. O., Cons. Engr.

Thompson, S. E., Cons. Engr., Odd Fellows Bldg., and Oliver Bldg., 141 Milk St., Boston.

Newton Upper Falls.—Banfield, F. E., Jr. (Jr.), Asst. Supt., Saco-Lowell Shops.

Mills, C., Cons. Engr., Saco-Lowell Shops.

Norfolk Downs.—Doble, R. N., M. E., Pneu. Scale Corp., Ltd.**North Adams.**—Forbush, F. L., State Inspr. Boilers, Examiner of Engrs., Commonwealth of Mass.

Hunter, J. D., V. P., Hunter Mch. Co.

Keables, A. D. (Jr.), Asst. M. E., Arnold Print Wks.

North Andover.—Rockwell, S. F., Mfg. Supt., Davis & Furber Mch. Co.**North Brookfield.**—Richards, T. G., Pres., Mgr., B. & R. Rubber Co.**North Plymouth.**—Damon, J. H., M. M., Plymouth Cordage Co.**Northampton.**—Graffam, W. S., Mfr., W. S. Graffam & Co.**Norwood.**—Armes, W. A., Industrial and Power Plant Engr., 131 Vernon St.
Guillo, H. P., Supt., Geo. H. Morrill Co.

Kendall, H. P., Treas., Genl. Mgr., Plimpton Press, Pres., Treas., Lewis Mfg. Co., Walpole.

Orange.—Harris, C. C., Supt., Rodney Hunt Mch. Co.

Stults, W. R. (Jr.), Asst. Supt., Chase Turbine Mfg. Co.

Palmer.—Wesson, P. B., Mech. Supt., Wright Wire Co.**Pittsfield.**—Abbott, C. C., M. E., 240 Second St.

Blasdell, A. F., Mfg. Supt., Genl. Elec. Co.

Francis, C. A., Genl. Elec. Co.

Jones, E. A., Pres., Treas., E. D. Jones & Sons Co.

Power, P. W., M. E., Genl. Elec. Co.

Robbins, J. L., M. E., Robbins, Gamwell & Co.

Thomas, W. R., M. E., Supt., E. D. Jones & Sons Co.

Quincy.—Lovell, R. L., Cons. Engr., Pat. Expt., 38 Edgemere Rd.**South Boston.**—Blood, C. W. H., V. P., Treas., S. A. Woods Mch. Co.

Gibson, F. M., Ch. Engr. Stand. Refinery, Am. Sugar Refining Co.

Greene, L. R., Cons. Engr., Walworth Mfg. Co.

Tilden, J. A., Genl. Mgr., Hersey Mfg. Co.

South Easton.—Cushing, R. A., M. E., Estimator, Easton Mch. Co.

Scriven, A. K. (Jr.), Shop Foreman, Easton Mch. Co.

South Framingham.—Abbott, H. W. (Jr.), Supt., Ames Plow Co.

Butcher, J. J., Cons. Engr. Motor Truck Dept., Guiler Engrg. Co.

Pleasanton, F. R. (Jr.), Mgr., Ames Plow Co.

Scott, H. F., M. M., Dennison Mfg. Co.

Southbridge.—Bailey, H. E. B., Engr. of Wks., Am. Optical Co.

Day, G. H., Asst. Supt., Am. Optical Co.

LaCroix, A. J., Partner, Supt., Hyde Mfg. Co.

Phelps, C. E. (Jr.), M. E., Am. Optical Co.

Vaughan, A. W. (Jr.), Industrial Engr., Am. Optical Co.

MASSACHUSETTS (Continued).**Springfield.**—Alden, R. O. (Jr.), Toolmaker, Bausch Mch. Tool Co.

Barstow, F. L., Engr., Leitch & Barstow.

Baush, W. H., Sales Mgr., Natl. Equip. Co.

Bennett, J. A., N. E. Westinghouse Co. .

Bliss, C. E., Mem. of Firm, Bliss & Lavalle.

Burlleigh, R. B., Rep., Quality Saw & Tool Wks.

Carey, H. W. (Jr.), Ch. Draftsman, Harley Co.

Carter, H. D., M. E., Samuel M. Green Co.

Clark, E. L. C., Asst. to Genl. Mgr., N. E. Westinghouse Co.

Craig, C. H., Jr., Mem. of Firm, McClintock & Craig.

Curtis, W. M., Mgr. Engrg. Dept., N. E. Audit Co.

Damon, W. H., Supt. of Generating, United Elec. Light Co.

Elder, E. H., Cons. Engr., Elder & Elder.

Epstein, M. K. (Jr.), Dist. Rep., Gilbert & Barker Mfg. Co.

Graves, L. W., Partner, Samuel M. Green Co.

Green, S. M., Cons. Engr., Samuel M. Green Co.

Greensmith, J. E., N. E. Westinghouse Co.

Grunwell, P. C., P. O. Box 504.

Gurney, E. R., Asst. Engr., Knox Motors Co.

Harley, L. J., Jr., Pres., Harley Co.

Holmes, W. E., M. E., Samuel M. Green Co.

Loose, T. L., Genl. Supt., Hendee Mfg. Co.

McClintock, E. H., Engr., Arch., McClintock & Craig.

Morris, A. W., Cons. Engr., A. W. Morris Co., Ch. Engr., Harley Co.

Mueller, J. L. (Jr.), Exper. Engr., Springfield Facing Co.

Pellissier, G. E., Cons. Engr., 317 Main St.

Repko, J. S., Jr. (Jr.), Bosch Magneto Co.

Ryder, M. P., Engr., Witherbee Igniter Co.

Schelhammer, H., Asst. Factory Mgr., Bosch Magneto Co.

Stowell, B. F., Supt., Mch. Engr., Van Norman Mch. Tool Co.

Taunton.—Cutter, G. A., Genl. Mgr., Cell Drier Mch. Co.

Tuttle, H. A., Ch. Engr., Evans Stamping & Plating Co.

Three Rivers.—Smith, H. A. (Jr.), M. M., Palmer Mill.**Tufts College P. O.**—Anthony, G. C., Dean Engrg. Sch., Tufts College.

Chase, C. H., Prof. Steam Engrg., Tufts College.

MacNaughton, E. (Jr.), Instr. M. E., Tufts College. .

Turners Falls.—Moody, H. A., Res. Engr., Turners Falls Co.**Walpole.**—Bonney, H. M. (Jr.), Ch. Draftsman, L. F. Fales.

Lewis, A. L. (Jr.), with L. F. Fales.

Waltham.—Cassidy, A. G., M. M., Waltham Watch Co.

Eaton, H. C., Second Asst. Supt., Waltham Watch Co.

Folsom, E. L., Supt. Statistics, Waltham Watch Co.

Ohlson, O., Mech. Supt., Waltham Watch Co.

Wood, G., Asst. Supt., Waltham Watch Co.

Watertown.—Bitterlich, W. J., Asst. M. M., Hood Rubber Co.**Wenham.**—Cunningham, T.**West Lynn.**—Alexander, M. W., Genl. Elec. Co.

Baldwin, H. S., M. E., Genl. Elec. Co.

Campbell, G. M., Turbine Dept., Genl. Elec. Co.

Hall, W. A., Asst. to Mgr., Genl. Elec. Co.

Hatch, H. J., Turbine Engr. Constr. Dept., Genl. Elec. Co.

King, H. M., Asst. Engr. Turbine Dept., Genl. Elec. Co.

Lord, Z. N., Dept. Foreman, Genl. Elec. Co.

Moss, S. A., Engr., Turbine Research Dept., Genl. Elec. Co.

MASSACHUSETTS, West Lynn (Continued).

Newman, W. C. (Jr.), Turbine Sales Dept., Genl. Elec. Co.
 Pentz, A. D., Box 33.
 Rice, R. H., Genl. Elec. Co.
 Warren, A. K., Mfg. Engr., Genl. Elec. Co.

West Newton.—Marshall, N., Cons. Engr., 107 Chestnut St.

West Roxbury.—Kemp, H. D. (Jr.), E. E., 108 Mt. Vernon St.

West Somerville.—Pearson, A. L., 11 Teele Ave.

West Springfield.—Lambson, DeW. C., Real Estate, 280 Kings Highway.
 Savage, S. F. (Jr.), 60 Lathrop St.
 Shirley, J. G. (Jr.), Gilbert & Barker Mfg. Co.

West Stockbridge.—Tomlinson, R. D., First V. P., Genl. Mgr., Grangers
 Lime & Marble Co.

Westfield.—Boyer, F. Q., Engr. of Tests, H. B. Smith Co.

Cushing, G. H., Genl. Supt., H. B. Smith Co.
 Mitchell, G. E., Gillett Bldg., cor Arnold and Elm Sts.
 Rau, F. B., Asst. Mgr., Pope Mfg. Co.
 Starr, F. W., Publicity Mgr., Pope Mfg. Co.

Whitinsville.—Brown, S. F. (Jr.), Supt's. Office, Whitin Mch. Wks.

Winchendon.—Whitney, W. M.

Winchester.—Sears, W. T., care of F. B. Cole, 196 Parkway.

Worcester.—Alden, G. I., Pres., Norton Co., Pres., Genl. Mgr., Norton
 Grinding Co.

Allen, C. M., Prof. Hyd. Engrg., Worcester Poly. Inst.
 Banfield, S. M. (Jr.), 6 Hackfeld Rd.
 Beth, H. W. H., Operating Engr., Norton Co.
 Bird, W. W., Prof. M. E., Dir. Washburn Shops, Worcester Poly. Inst.
 Bradley, J. E., Pres., Osgood Bradley Car Co.
 Burgess, A. B., Pres., Genl. Mgr., Stand. Plunger Elev. Co.
 Carroll, E. H., Supt., Morgan Constr. Co.
 Coghlin, J. P., Pres., Treas., Coghlin Elec. Co.
 Darling, A. W., M. E., Graton & Knight Mfg. Co.
 Dietz, C. F., Advis. Engr., Asst. Sales Mgr., Norton Co.
 Dunn, E. L., Ch. Engr., Stand. Plunging Elev. Co.
 Edwards, V. E., V. P., Morgan Constr. Co.
 Endicott, G. (Jr.), Morgan Spring Co.
 Fairfield, H. P., Asst. Prof. Mch. Constr., Worcester Poly. Inst.
 Fish, M. R. (Jr.), Cost Estimator, Am. Steel & Wire Co.
 Gallagher, R. T., Ch. Draftsman Engrg. Dept., Am. Steel & Wire Co.
 Gallup, D. L., Cons. Auto. Engr., Prof. Gas Engrg., Worcester Poly. Inst.
 George, J. R., Ch. Engr., Morgan Constr. Co.
 Gifford, A. J. (Jr.), Partner, Leland-Gifford Co.
 Gillett, C. E. (Jr.), Charge Mech. Div. Research Labs., Norton Co.
 Gilman, F. W., Testing Engr., Sanford Riley Stoker Co., Ltd.
 Gordon, A. A., Jr., Supt., Crompton & Knowles Loom Wks.
 Hall, W. G., Supt., Spencer Wire Co.
 Harding, H. N., Norton Grinding Co.
 Higgins, J. W., Pres., Treas., Worcester Pressed Steel Co.
 Hodge, W. W. (Jr.), 140 June St.
 Hollis, I. N., Pres., Worcester Poly. Inst.
 Howe, J. F., Wire Rope Engr., Asst. to Dist. Mgr., Am. Steel & Wire Co.
 Hutchins, G. F., Genl. Supt., Crompton & Knowles Loom Wks.
 Jefferies, E. A. W., M. E., Morgan Constr. Co.
 Jenckes, L. B., Engr., Crompton & Knowles Loom Wks.

MASSACHUSETTS, Worcester (Continued).

- Jeppson, G. N., Wks. Mgr., Norton Co.
 King, A. D., Engr., Stand. Plunger Elev. Co.
 Larsson, T. L. F., M. E., 34 Holden St.
 Logan, J., First V. P., Genl. Mgr., U. S. Envelope Co.
 Lummis, C. W., Asst. Mgr. Gas Producer Dept., Morgan Constr. Co.
 Marble, E. H., Pres., Curtis & Marble Mch. Co.
 Montague, W. T. (Jr.), Mem. Mech. Dept., Research Labs., Norton Co.
 Morgan, P. B., Treas., Morgan Constr. Co.
 Morgan, R. L., Cons. Engr., 452 Main St.
 Norton, C. H., M. E., Norton Grinding Co.
 Norton, F. E., M. E., 656 Main St.
 Park, E. H., Asst. to M. M., Wright Wire Co.
 Parker, C. D., M. E., A. Burlingame Co.
 Read, C. A., Prof. Steam Engrg., Worcester Poly. Inst.
 Reed, C. T. (Jr.), Pur. Engr., Reed & Prince Mfg. Co.
 Reed, E. H., Supt., Reed & Prince Mfg. Co.
 Rice, A. C., Cons. Hyd. and M. E., 5 Oberlin St.
 Riley, R. S., Pres., Sanford Riley Stoker Co., Ltd.
 Rockwood, G. I., Cons. Engr., 38 Harlow St.
 Sargent, L. H., N. E. Sales Engr., Stand. Plunger Elev. Co.
 Scott, G. H., 777 Pleasant St.
 Searle, W. C. (Jr.), Foreman Miscellaneous Dept., Norton Grinding Co.
 Seed, C. R., Power Supt., Worcester Elec. Light Co.
 Sheperdson, J. W., Morgan Constr. Co.
 Simeon, C. J., Wks. Mgr., Reed-Prentice Co.
 Smith, A. L., Prof. Drawing and Mch. Design, Worcester Poly. Inst.
 Smith, H. B., Prof. E. E., Dir. E. E. Dept., Worcester Poly. Inst.
 Smith, J. W., 284 Highland St.
 Stewart, S. P., M. E., Stewart Boiler Wks.
 Streeter, C. O., Asst. Sales and Cons. Engr., Graton & Knight Mfg. Co.
 Turner, C. H. (Jr.), Ch. Engr., Osgood Bradley Car Co.
 Waite, E. B., Cons. Engr.
 White, J. A. (Jr.), Wks. Mgr., Worcester Pressed Steel Co.
 White, M. G. (Jr.), Willard Terrace.
 Wilcox, J., Jr. (Jr.), 614 W. Boylston St.
 Williams, R. G. (Jr.), Safety Engr., Norton Co.

MICHIGAN

Ablon.—White, L. E., Treas., Gale Mfg. Co.

Ann Arbor.—Airey, J., Asst. Prof. Engrg. Mech., Univ. of Mich.

Allen, J. R., Prof. M. E., Univ. of Mich.

Anderson, H. C., M. E., Univ. of Mich.

Bursley, J. A., Junior Prof. M. E., Univ. of Mich.

Cooley, M. E., Dean Depts. Engrg. and Arch., Univ. of Mich.

Emswiler, J. E. (Jr.), Asst. Prof. M. E., Univ. of Mich.

Fessenden, C. H. (Jr.), Asst. Prof. M. E., Univ. of Mich.

Hoexter, S. J., Instr. M. E., Univ. of Mich.

Holland, R. K., Principal Asst. Engr. to Gardner S. Williams, Cons. Civ. and Hyd. Engr., Cornwell Bldg.

McKinnon, W. R. (Jr.), 901 E. Washington St.

Marks, J. H., Supt. Bldgs. and Grounds Dept., Univ. of Mich.

Mickle, F. A. (Jr.), Instr. Descriptive Geometry and Drawing, Univ. of Mich.

Miggett, W. L., Prof. Shop Practice and Supt. Engrg. Shops, Univ. of Mich.

Parker, J. C., Prof. E. E., Univ. of Mich.

MICHIGAN, Ann Arbor (Continued).

- Verner, W. F., Asst. Prof. M. E., Univ. of Mich.
 Zowski-Zwierzchowski, S. J., Prof. M. E., Univ. of Mich.
- Battle Creek.**—Bird, J. C., M. E., Union Steam Pump Co.
 Davis, E. H. (Jr.), Ch. Draftsman, Am. Steam Pump Co.
 Dean, E. W., Ch. Draftsman, Duplex Ptg. Press Co.
 Duerner, H. L., Jr., M. E., 84 Fremont St.
 Galloway, T., M. E., 18 Wendell St.
 Hawthorne, P. R., Asst. Supt., Nichols & Shepard Co.
 Hoe, R., Pres., Duplex Ptg. Press Co.
 Hvid, R. M., V. P., R. M. Hvid Co.
 Ordway, E. P. (Jr.), Ch. Draftsman, Union Steam Pump Co.
 Vail, G. R., Supt., M. E., Advance Pump & Compressor Co.
- Bay City.**—Howlett, L. G. (Jr.), Supt., Industrial Wks.
 Perry, E. B., Mgr., Industrial Wks.
- Beeon Hill.**—Koepel, E., Supt. Stamp Mills, Copper Range Consld. Co.
- Benton Harbor.**—Capen, T. W., 748 Ogden Ave.
- Brighton, Livingston Co.**—Decker, E. P.
- Buchanan.**—Burrows, R. J., Engr. Motor Axle Dept., Celfor Tool Co.
- Calumet.**—McIntosh, R., Engr., Calumet & Hecla Min. Co.
 Williams, H. E., Ch. Draftsman, Calumet & Hecla Min. Co.
- Charlevoix.**—Sloan, R. F., Genl. Mgr., Charlevoix Rock Product Co.
- Chelsea.**—Potter, N. S., Jr., V. P., Genl. Mgr., Mich. Portland Cement Co.
- Detroit.**—Alden, H. W., Ch. Engr., Timken-Detroit Axle Co.
 Allen, J. L., Supt., M. E., Peninsular Auto Parts Co.
 Auten, J. E., Supt. Bldgs. and Equip., Cadillac Motor Car Co.
 Baldwin, A. T., Pres., Genl. Mgr., Precision Instrument Co.
 Ball, F. H., Genl. Mgr. Carburetor Dept., Penberthy Injector Co.
 Ball, F. O., Mgr., Carburetor Dept., Penberthy Injector Co.
 Barber, C. M., C. E., 83 Blaine Ave.
 Barnes, S. G., Mgr., Solvay Process Co.
 Barr, K. (Jr.), Salesman, Rep., Lumen Bearing Co.
 Barton, H. L., Asst. Dir. of Production, Genl. Motors Co.
 Bayle, E. J., Production Mgr., Aluminum Castings Co.
 Beall, F. F. (Jr.), Factory Mgr., Packard Motor Car Co.
 Bell, R. T., 70 Kipling Ave.
 Benedict, H. G., Cons. Engr., P. O. Box 831.
 Bigelow, F. B., Sales Mgr., Murphy Iron Wks.
 Bingham, E. H., Wks. Mgr., Solvay Process Co.
 Blackburn, W. A., Asst. Genl. Foreman, Cadillac Motor Co.
 Boomhower, F. K., Engr. with Albert Kahn, Arch., 58-60 Lafayette Blvd.
 Bornholt, O. C., M. M., Maxwell Motor Co.
 Bourquin, J. F., Genl. Mgr., Paige-Detroit Motor Car Co.
 Bouton, G. I., Ch. Engr., Murphy Iron Wks.
 Boyer, J., Pres., Burroughs Adding Mch. Co.
 Brock, C. A. (Jr.), Detroit Steel Products Co.
 Brown, J. W., Engr. Spec. Equip., Cadillac Motor Car Co.
 Brush, A. P., Cons. Engr., 203 Boyer Bldg.
 Burdick, E. J., Supt. of Power, Detroit United Ry.
 Cady, C. R., Industrial Engr., Smith, Hinchman & Grylls.
 Cairns, W., Mgr., Detroit Pressed Steel Co.
 Carson, C. M., Factory Mgr., Cadillac Motor Car Co.
 Chesnutt, R. C. (Jr.), Auto. Drafting Dept., Packard Motor Car Co.
 Chester, T., Ch. Engr., Am. Blower Co.
 Church, H. D., Truck Engr., Packard Motor Car Co.

MICHIGAN, Detroit (Continued).

- Coffin, H. E., V. P., Hudson Motor Car Co.
 Collamore, R., Cons. Engr., Smith, Hinchman & Grylls.
 Conant, W. S., Cons. Engr., 80 Griswold St.
 Coon, T. E., M. E., Coon-De Visser Co.
 Copland, A. W., Pres., Genl. Mgr., Detroit Gear & Mch. Co.
 Cox, C. E., Res. Dir., Commer. Engrg. Labs.
 Crocker, A. G., Salesman Prime Mover Div., Westinghouse Elec. & Mfg. Co.
 Cushman, A. W. (Jr.), Supt., Parker Webb & Co.
 Danziger, J. C., Secy., Treas., Detroit Motor Casting Co.
 Davis, L. K., 841 David Whitney Bldg.
 DeLamater, V. N., Asst. Sales Mgr., Hyatt Roller Bearing Co.
 Dennis, B. W. (Jr.), Designer Power Dept., Ford Motor Co.
 De Visser, J. H., Treas., Coon-De Visser Co.
 Dodge, H. E., V. P., Genl. Mgr., Dodge Bros.
 Dodge, J. F., Partner, Dodge Bros.
 Doughty, A. J., 45 Virginia Park.
 Dow, A., Pres., Genl. Mgr., Edison Ill. Co. of Detroit.
 DuComb, W. C., Jr., Sales Mgr., Engr., Barthel & Daly.
 Dunham, G. W., V. P., Cons. Engr., Chalmers Motor Co.
 Dwyer, E. (Jr.), Asst. Supt., Mich. Stove Co.
 Eays, T. C. (Jr.), Mgr. Ry. and Ltg. Dept., Westinghouse Elec. & Mfg. Co.
 Esselstyn, H. H., Constr. Engr., Edison Ill. Co. of Detroit.
 Evans, W. F., Pres., Stand. Screw Products Co.
 Farmer, T., Warner & Swasey Co.
 Fekete, S. I. (Jr.), 743 Waterloo St.
 Fitts, E., Engr., Detroit Stoker Co.
 Ford, H., Pres., Ford Motor Co.
 Fortune, J. R., 185 Boston Blvd., W.
 Hammers, M. J., Treas., Genl. Mgr., Engr., Consltd. Car Co.
 Hargreaves, R. C. (Jr.), Traffic Engr., Federal Motor Truck Co.
 Haynes, H. H. (Jr.), Tech. Service Dept., Packard Motor Car Co.
 Heftler, V. R., Pres., Genl. Mgr., Zenith Carbureter Co.
 Herman, Dr. S. J., V. P., Genl. Mgr., Diamond Power Spec. Co.
 Hill, J. W., West. Sales Engr., Bantam Anti-Friction Co.
 Hill, R., Factory Mgr., Detroit Lubricator Co.
 Hinchman, T. H., Cons. Engr., Smith, Hinchman & Grylls.
 Hirshfeld, C. F. (Jr.), Ch. of Research Dept., Edison Ill. Co. of Detroit.
 Holloway, T. W., Asst. Mgr. Tech. Dept., Cadillac Motor Car Co.
 Holmes, H. W. (Jr.), Genl. Mgr., Puritan Brick Co., V. P., Detroit Tool Co.
 Hluff, R., Ch. Engr., Dodge Bros.
 Johnson, F., Eng. Designer, Cadillac Motor Car Co.
 Joy, F. B., Genl. Mgr., Detroit Htg. & Ltg. Co.
 Kales, W. R., Ch. Engr., Whitehead & Kales Iron Wks.
 Keeler, H. E. (Jr.), M. and E. E., Mich. R. R. Com.
 Keep, W. J., Cons. Engr., Mich. Stove Co.
 Knight, A. H., Asst. to Factory Mgr., Dodge Bros.
 Knobloch, A. F., V. P., Genl. Mgr., Northway Motor & Mfg. Co.
 Lane, H. M., Cons. Fdy. Engr., Pres., H. M. Lane Co.
 Larmer, J. G., Burns Hotel.
 Layng, G. H., Supt. of Main Plant, Cadillac Motor Car Co.
 Leisen, T. A., Genl. Supt., Bd. of Water Comms.
 Leland, H. M., Pres., Advis. Mgr., Cadillac Motor Car Co.
 Leland, W. C., Genl. Mgr., Cadillac Motor Car Co.
 Lester, C. R., Mgr. Tech. Serv. Dept., Packard Motor Car Co.
 Low, F. H. (Jr.), Ford Motor Co.
 McCabe, J. C., Ch. Boiler Inspr., City of Detroit.

MICHIGAN, Detroit (Continued).

- McCull, J. R., Mem. of Firm, Ammerman, McCull & Anderson, Dean Engrg. Dept., Univ. of Detroit.
- MacGregor, W., 430 W. Grand Blvd.
- Mansfield, J. B., Ch. Engr., V. P., Genl. Mgr., J. E. Bolles Iron & Wire Wks., Inc.
- Mason, F. H., Spec. in Feed Water Purification and Htg. Power Plant Spec., Brick and Concrete Chimney Constr., 614 Moffat Bldg.
- Matter, E. G., Mgr., Natl.-Acme Mfg. Co.
- Mattsson, A. G., Cons. Engr., Great Lakes Engrg. Wks.
- Meyer, E. C., Secy., Treas., Stecneck & Tegge.
- Moore, E. A., Kenneth Anderson Co.
- Morgana, C., Jr. (Jr.), Charge Mch. Tool Engrg. Dept., Ford Motor Co., Highland Park.
- Moyer, J. R. (Jr.), Genl. Supt. of Plant, Lewis-Hall Iron Wks.
- Myers, C. T., Engr., Timken-David Brown Co.
- Nelson, E. A., M. E., 104 Park View Ave.
- Nicklin, E. W., Diamond Power Spec. Co.
- O'Leary, F. J., Mgr., Spec. Injectors Co.
- Oliver, E. C. (Jr.), Mgr., Oliver Instrument Co.
- Osborn, F. C., Pres., Genl. Mgr., F. C. Osborn Co.
- Painter, J. G. (Jr.), Tech. Service Mgr., Hupp Motor Car Co.
- Parker, J. W. (Jr.), Ch. Asst. Engr. Power Plants, Edison Ill. Co. of Detroit.
- Parkhurst, F. A., Organizing Engr., Aluminum Castings Co.
- Pessano, A. C., Pres., Genl. Mgr., Great Lakes Engrg. Wks.
- Phipps, W., Pres., Supt. of Production, Massnick-Phipps Mfg. Co.
- Quinn, S. M., 771 Woodward Ave.
- Randall, D. T., Cadillac Motor Car Co.
- Reddig, W. H., Genl. Supt. Motor Mfg., Continental Motor Mfg. Co.
- Reid, E. S. (Jr.), Engr., No. Eng. Wks.
- Richards, C. D. (Jr.), Asst. Engr. of Tests, Solvay Process Co.
- Roberts, E. F., Genl. Supt., Packard Motor Car Co.
- Rogers, L. C., Exper. Engr., Solvay Process Co.
- Rosenfield, H. (Jr.), Draftsman, Edison Ill. Co. of Detroit.
- Ross, J. L., Owner, Ross & Young Mch. Co.
- Russel, W. S., Pres., Genl. Mgr., Russel Wheel & Fdy. Co.
- Saurwein, G. K., M. E., Constr. Engrg. Dept., Detroit Edison Co.
- Schneider, L. J. (Jr.), Sales Engr., Hyatt Roller Bearing Co.
- Schoen, A., Engr., Larrowe Constr. Co.
- Sellew, W. H., Prin. Asst. Engr., Mich. Central R. R.
- Shalleross, W. C., Mgr. Caustic Soda Dept., Solvay Process Co.
- Shirey, W. H. (Jr.), Draftsman, Smith, Hinchman & Grylls.
- Shuler, H. A. (Jr.), Dist. Mgr., Kinnear Mfg. Co.
- Singleton, A. B. (Jr.), Sales Engr., Kerr Mch. & Supply Co.
- Smith, E. L., Sales Mgr., Russel Motor & Axle Co., North Detroit.
- Smith, W. H., 63 Burlingame Ave.
- Snell, L. K., Exec. Engr., Cadillac Motor Car Co.
- Spice, C. G. (Jr.), Carburetor Development Engr., Detroit Lubricator Co.
- Spillman, H. S. (Jr.), Constr. Engr., Continental Motor Mfg. Co.
- Sprau, W. C., Treas., Barnes Wire Fence Co.
- Stانبrough, D. G., Packard Motor Car Co.
- Still, F. R., Ch. Engr., Secy., Am. Blower Co.
- Stoddard, E. J., Expt., R. A. Parker, Pat. Lawyer, 607 Moffat Blk.
- Stringham, J. S., Mgr., Monarch Steel Castings Co.
- Summers, L. E., Mgr., Chicago Pneu. Tool Co.
- Sweet, C. E., Treas., Superior Mch. & Engrg. Co.
- Sweet, E. E., Cons. M. E., Ch. Engr., Cadillac Motor Car Co.

MICHIGAN, Detroit (Continued).

- Taber, M. W., Constr. Engr., Packard Motor Car Co.
 Taylor, C. H., Cons. Engr., Taylor & Neuteboom.
 Tenney, L. C., Cadillac Motor Car Co.
 Thompson, B. D., Am. Car & Fdy. Co.
 Thompson, P. W., Tech. Engr., Edison Ill. Co. of Detroit.
 Trix, J., Pres., Am. Injector Co.
 Turnbull, G. B., Ch. Engr., Great Lakes Engrg. Wks.
 Vincent, J. G., Ch. Engr., Packard Motor Car Co.
 Walker, F. W., V. P., Ch. Engr., Comstock, Haigh, Walker Co.
 Weir, S. E., Wks. Mgr., Am. Blower Co.
 Whitaker, H. E., M. E., Parke, Davis & Co.
 White, D. M., Engr., Cadillac Motor Car Co.
 White, E. F., Factory Engr., Dodge Bros.
 Wilde, R., Genl. Mgr., Mich. Gear & Engrg. Co.
 Wills, C. H., Ch. Engr., Factory Mgr., Ford Motor Co.
 Wilt, A. D., Jr., V. P., Genl. Mgr., Schweppe & Wilt Mfg. Co., Pres.,
 Wilt Twist Drill Co. of Canada, Ltd., Walkerville, Canada.
 Wingo, R. T., Pres., Superior Mch. & Engrg. Co.
 Wood, E. E., Salesman, Jones & Lamson Mch. Co.
 Woolson, H. T., Truck Engr., Packard Motor Car Co.

East Lansing.—Bissell, G. W., Prof. M. E., Dean Engrg., Mich. Agri. College.

- Greenman, E. G., Asst. Prof. M. E., Mich. Agri. College.
 Iddles, A. (Jr.), Instr. Drawing and Design, Mich. Agri. College.
 Polson, J. A., Assoc. Prof. M. E., Charge Engrg. Lab., Mich. Agri. College.

Flint.—Champion, A., V. P., Genl. Mgr., Champion Ignition Co.

- Gibert, R. W., Efficiency Engr., Buick Motor Co.
 Mott, C. S., Pres., Weston Mott Co.
 Terry, M. V. (Jr.), Draftsman, Asst. to Ch. Engr., Champion Ignition Co.

Gladstone.—Slining, G. J., Supt., Cleveland Cliffs Iron Co.**Grand Rapids.**—Cole, D. S., Mech. Expt., Solicitor of Patents, 623 Ashton Bldg.

- Freshney, S. A., Genl. Mgr., Grand Rapids-Muskegon Power Co.
 Reeve, C. D., V. P., Factory Mgr., Grand Rapids Brass Co.
 Tower, D. W., Pres., Grand Rapids Brass Co.
 Young, J. T., First V. P., Genl. Mgr., Grand Rapids Gas Light Co.,
 V. P., Muskegon Traction & Light Co., Muskegon.

Hancock.—Lawton, C. L., Genl. Mgr., Quincy Mine.**Hastings.**—Patrick, I., Ch. Engr., Consltd. Press & Tool Co.**Hubbell.**—Burgan, A. L., Mill Supt., Tamarack Min. Co., Osceola Consltd. Mfg. Co., Ahmeek Min. Co.**Ironwood.**—Hunt, S. H., Ch. Engr., Newport Min. Co.**Ishpeming.**—McClure, O. D., M. M., Cleveland Cliffs Iron Co.**Jackson.**—Eddy, H. F., Ch. Engr., Au Sable Elec. Co.

- Frost, E. J., Pres., Genl. Mgr., Frost Gear & Mch. Co.
 Halladay, C. L., Merritt Bldg.
 Hopkins, G. F., Frost Gear & Mch. Co.
 McAlpine, B. C., M. E., Frost Gear & Mch. Co.
 Maytham, W. J., Cons. Engr., 761 W. Main St.
 Mills, A. C., Supt., Jackson Fence Co.
 Wellington, J. W., Factory Mgr., Mutual Motors Co.
 Wilcox, C. C. (Jr.), Asst. to Cons. E. E., Hodenpyl, Hardy & Co.

MICHIGAN (Continued).

- Kalamazoo.**—Albertson, D. J., Civ. and Industrial Engr., Mill Arch.,
305 E. Main St.
Hansen, T. H. C., Supt., Harrow Spring Co.
Sears, H. R. (Jr.), 628 S. West St.
- Lansing.**—Scott, R. H., V. P., Reo Motor Car Co.
Seager, J. B., Genl. Mgr., Seager Eng. Wks.
Stark, W. E. (Jr.), 416 W. Ottawa St.
Thomas, H. T., Ch. Engr., Reo Motor Car Co.
- Marquette.**—Pearce, E. L., Mgr., Lake Shore Eng. Wks.
- Menominee.**—Greger, H., M. E., Prescott Co.
Prescott, F. M., Pres., Prescott Co.
- Muskegon.**—Sawyer, H., Cons. Engr., Shaw Elec. Crane Co.
- Painesdale.**—Rankin, W. A., E. E., Copper Range Constld. Co.
- Port Huron.**—Haynes, E. A., Genl. Mgr., Port Huron Paper Co.
Kern, F. H. (Jr.), Ch. Engr., C. Kern Brewing Co.
- Saginaw.**—Curtiss, C. B., Wickes Boiler Co.
Fisher, E. C., V. P., Genl. Mgr., Wickes Boiler Co.
Macdonald, D. H., Wks. Mgr., Wickes Bros.
Willcox, G. B., Pres., Genl. Mgr., Willcox Engrg. Co.
- Sibley.**—Church, A. (Jr.), Pres., Church Quarry Co.
- Three Rivers.**—Keith, R. R., Asst. Supt., Sheffield Car Co.
- Vulcan.**—Armstrong, F. H., M. E., Penn Iron Min. Co., Republic Iron Co.
- Wyandotte.**—Kirby, F. E., Engr., 155 Biddle Ave.
Smith, R. W., Constr. Engr., Mich. Alkali Wks. No. 2.

MINNESOTA

- Duluth.**—Boyd, F. E. (Jr.), M. E., with Ch. Engr., Oliver Iron Min. Co.
Cornish, W. R. (Jr.), Minn. Steel Co.
Crane, J. B., Genl. Supt., Great No. Power Co.
Fuller, F. M. (Jr.), Cons. Engr., 812-814 Torrey Bldg.
Hugo, T. W., Cons. Engr., 221 W. 6th Ave.
McGiffert, J. R., Secy., Treas., Clyde Iron Wks.
Olmsted, G. C. (Jr.), Mgr., Minn. Radiator Co.
Rumsey, S. S., Ch. Engr., Oliver Iron Min. Co.
Ryerson, W. N., Genl. Mgr., Great No. Power Co.
Sheldon, S. B. (Jr.), Genl. Supt., Minn. Steel Co.
Wessinger, H. J., Pres., Imperial Iron Wks.
- Hokah.**—Thompson, H. L. (Jr.).
- Hopkins.**—Souba, W. H.
- Minneapolis.**—Bates, A. H., M. E., Stacy-Bates Co.
Bogart, A. L., Pres., Power Engrg. Co.
Bovey, W. H., Genl. Supt., Dir., Washburn Crosby Co.
Brezinsky, E., Strong-Scott Mfg. Co.
Brown, E. H., Mem. of Firm, Hewitt & Brown.
Buffington, H. C., Mech. Draftsman, Minneapolis Steel & Mch. Co.
Daniel, T. L., Industrial Engr., C. L. Pillsbury Co.
Dutcher, E. H. (Jr.), 120 N. 4th St.
Flather, J. J., Prof. M. E., Univ. of Minn.
Forfar, D. M. (Jr.), M. E., Minneapolis Mgr., Charles L. Pillsbury Co.
Frear, J. B., College of Engrg., Univ. of Minn.
Garbett, B. C., Secy., Twin City Mch. Co.

MINNESOTA, Minneapolis (Continued).

- Gauthier, G. J., 1920 Aldrich Ave., S.
 Heinen, E. J., Plymouth Bldg.
 Herrick, C. A., Cons. Engr., 3816 Thomas Ave., S.
 Huntington, C. W., V. P., Genl. Mgr., Minneapolis & St. Louis R. R.
 Jones, F. S. (Jr.), Engr., Contr., Gouthier, Allan & Jones.
 Kavanaugh, W. H., Exper. Engrg., Univ. of Minn.
 Lang, C. A. (Jr.), Supt., Northwestern Consld. Milling Co.
 Martenis, J. V., Asst. Prof. M. E., Univ. of Minn.
 Martin, W. H. (Jr.), Instr. M. E., Univ. of Minn.
 Mayhew, R., Asst. M. E., Minneapolis Steel & Mchy. Co.
 Mayo, E. D., Ch. Engr., Barnett & Record Co.
 Miller, D. W., Sales Engr., Minneapolis Steel & Mchy. Co.
 Mueller, H. F., Ch. Engr., Washburn Crosby Co.
 Otto, R. W., Engr. Charge Design and Constr., Andrews Htg. Co.
 Parker, R. T. (Jr.), Minneapolis Steel & Mchy. Co.
 Peterson, W. H., Sales Engr., Minneapolis Steel & Mchy. Co.
 Pillsbury, C. L., M. and E. Cons. Engr., 805 Metropolitan Life Bldg.
 Record, J. L., Pres., Genl. Mgr., Minneapolis Steel & Mchy. Co.
 Rollins, L. E. (Jr.), Cons. Engr., Mech. Equip. for Bldgs., 2437 Emerson Ave., S.
 Rose, F. W., Cons. E. and M. E., 470-475 Auditorium Bldg.
 Rowley, F. B., Asst. Prof. Drawing and Descriptive Geom., College of Engrg., Univ. of Minn.
 Scofield, E. H., Power Engr., Twin City Rapid Transit Co.
 Shipley, S. C., Asst. Prof. Mch. Constr., Supt. of Shops, Univ. of Minn.
 Shoebridge, F. H. (Jr.), 3125 Fremont Ave., S.
 Shoop, C. F., Asst. Prof. Exper. Engrg., Univ. of Minn.
 Stacy, E. N., Genl. Mgr., Decarie Incinerator Co.
 Strong, A. W., Pres., Mgr., Strong-Scott Mfg. Co.
 Teach, J. A., Minneapolis Steel & Mchy. Co.
 Wagner, O. H., Decarie Incinerator Co.
 Whitner, H. S., Supt., Mfr., Minneapolis Genl. Elec. Co.
 Williams, W. S. (Jr.), W. S. Williams Co.
 Woodman, J. C. (Jr.), Constr. Supt., Decarie Incinerator Co.

New Duluth.—Sampson, C. C., Supt. Gas Power Sta., Minn. Steel Co.

New Prague.—Gordon, W. J., Mech. Supt., Internatl. Milling Co.

St. Paul.—Beckjord, W. C., E. E., St. Paul Gas Light Co.

- Bohn, G. C., V. P., White Enamel Refrigerator Co.
 Brink, H. L., First Asst. to Ch. Engr., Am. Hoist & Derrick Co.
 Crane, E. C. (Jr.), Asst. Engr., Minn. State Farm.
 Crosby, O., Managing Partner, Engr., Am. Hoist & Derrick Co.
 Dailey, F. A., Pres., Treas., Union Mch. Co.
 Doty, P., V. P., Genl. Mgr., St. Paul Gas Light Co.
 Flowers, D. W., Supt., St. Paul Gas Light Co.
 Hall, Q. A., Secy., Engr. of Tests, Morgan T. Jones Co.
 Meixner, B. A. (Jr.), Engrg. Salesman, R. B. Whitacre & Co.
 Morton, H. S. (Jr.), Combustion Spec. and Salesman, North West. Fuel Co.
 Moyer, A. F., Genl. Mgr., Moyer Motor Engrs.
 Otto, F. A., Supt. Elec. Dept., St. Paul Gas Light Co.
 Staude, E. G. (Jr.), Pres., Managing Dir., E. G. Staude Mfg. Co.
 Stickney, C. A., Pres., Charles A. Stickney Co.
 Teetsell, H. F., Genl. Supt., Waldorf Box Board Co., M. M., H. L. Collins Co. and Am. Paper Stock Co.
 Toltz, M., 1410 Pioneer Bldg.
 Tubby, C. W., Dist. Mgr., Internatl. Steam Pump Co.
 Whitacre, R. B., Senior Partner, R. B. Whitacre & Co.

MINNESOTA, St. Paul (Continued).

Wilhelm, E. A., Ch. Draftsman, Am. Hoist & Derrick Co.

Wood, W. R., Engr. of Tests, Great No. Ry. Co.

Winona.—Dunham, W. E., Supvr. M. P. and Mchy., Chicago & North West. Ry.

MISSISSIPPI

Agricultural College.—Carpenter, R. C., Prof. M. E., Supt. Power Plant, Miss. Agri. and Mech. College.

Canton.—Sharp, J. T., Jr. (Jr.), Supt., Canton Elec. Light & Water Wks.

Fernwood.—Spicer, C. W., M. M., Fernwood Lumber Co., Fernwood & Gulf R. R.

Greenville.—White, W. J., Mem. of Firm, Stanton-White Dredging Co.

Gulfport.—Rollins, H. M., Supt., Gulfport Creosoting Co.

Magnolia.—Kramer, X. A., Cons. Engr. and Arch.

MISSOURI

Bonne Terre.—Sicka, L. T., Mech. Supt., Engr., St. Joseph Lead Co.

Columbia.—Fessenden, E. A., Assoc. Prof. M. E., Univ. of Mo.

Hibbard, H. W., Prof. M. E., Univ. of Mo.

Newton, G. D., Instr. Drawing and Descriptive Geometry, Univ. of Mo.

Westcott, A. L., Asst. Prof. M. E., Univ. of Mo.

Wharton, J. R., Charge Gas and Refrig. Engrg., Dept. of M. E., Univ. of Mo.

Hannibal.—Baker, W. H., Asst. Genl. Supt., Atlas Portland Cement Co.

Kessler, H. H. (Jr.), Asst. Supt. Maintenance, Atlas Portland Cement Co.

Joplin.—Conklin, H. R., Min. and E. E., 104 E. 15th St.

Kansas City.—Brady, J. H., Ch. Engr., Bd. of Education.

Cushman, F., Jr., Head of Dept. Mech. Arts and Applied Science, Kansas City Poly. Inst.

Daniel, A. P., Ch. Designing and Cons. Engr., Bituminized Road Co.

Downes, N. W. (Jr.), M. E., Bd. of Dirs., Kansas City Sch. Dist.

Fritts, C. E., E. E., Metro. St. Ry. Co.

Fusselman, P. A. (Jr.), Genl. Shop Foreman, Kansas City Gas Co.

Hale, R. M., Constr. Engr., U. S. Smelting Co.

Haney, J. W., Ch. Engr., Commerce Power Co.

Harrington, J. L., Head of Firm, Harrington, Howard & Ash.

Howard, E. E., Assoc. Engr., Harrington, Howard & Ash.

Hunt, L. A., Pres., Hunt Engrg. Co.

Hurlburt, A., Engr., Kansas City Gas Co.

Kent, J. M., E. and M. E., Instr. Applied Steam and Elec., Manual Training H. S.

Lund, Hugo, Ch. Draftsman, Metro. St. Ry. Co.

McCandlish, R. M., Pres., Robert M. McCandlish Engrg. Co.

McCarthy, R. J., V. P., Kansas City So. Ry. Co.

New, W. E., M. M., Supt. M. P., Kansas City Terminal Ry. Co.

Nye, H. V. (Jr.), Southwestern Milling Co.

Peters, R. F., Senior M. E. Div. of Valuation, Interstate Commerce Com.

Rollins, W. B., Cons. Engr., W. B. Rollins & Co.

Slidell, K., Spec. Rep., Anglo Am. Mill Co.

Stone, L. L., Ch. Engr., Hunt Engrg. Co.

Struckmann, H., Pres., Genl. Mgr., Iola Portland Cement Co.

Van Cleve, H. P. (Jr.), Ch. Draftsman, Harrington, Howard & Ash.

West, W. C. (Jr.), Mech. Expt., Galena-Signal Oil Co.

MISSOURI, Kansas City (Continued).

Williams, N. N., Cons. M., C. and E. E., 3227 Charlotte St.

Worbois, H. L. (Jr.), Gas Tractor Instr., Designer, Sweeney Auto. Sch. Co.

Rivermines.—Breyer, E. F., M. E., Doe Run Lead Co.

St. Charles.—Barton, R. L., Draftsman, Checker, Am. Car & Fdy. Co.

St. Joseph.—Billings, E. J. (Jr.), Supt. of Power, St. Joseph Ry., Light, Heat & Power Co.

St. Louis.—Ackerman, F. (Jr.), Asst. to Wks. Mgr., Curtis & Co. Mfg. Co.

Allison, J. E., Cons. Engr., 300 Security Bldg.

Ashton, W. S., Ch. Engr., St. Louis Brewing Asso.

Azbe, V. J. (Jr.), 3847 Potomac St.

Ball, P. De C., Mfr., 3003 N. Broadway.

Baumes, P. B., Dist. Mgr., Ball Eng. Co.

Bausch, F. E., Mgr., Hooven Owens Rentschler Co.

Bell, E. D., Genl. Supt., St. Louis Elec. Term. Ry. Co., St. Louis Elec.

Bridge Co., Madison Co. Light & Power Co.

Berger, F. A., Asst. Prof. M. E., Washington Univ.

Blackman, G. H. (Jr.), Mem. of Firm, Bowman-Blackman Mch. Tool Co.

Blair, W. R., Wks. Mgr., Landis Mch. Co.

Boughton, J. H., Pres., Natl. Light & Power Co.

Bretzfelder, I. L., V. P., Treas., Alvey Mfg. Co.

Brown, E. L., Jr., Ch. Deputy Insp. Boilers and Elev., City of St. Louis.

Bryan, W. E., Supt. Power Stas., United Rys. Co. of St. Louis.

Bryce, R. M. (Jr.), Armstrong Cork & Insulation Co.

Busse, F. E., V. P., Barry-Wehmiller Mchy. Co.

Day, L. A., Ch. M. E., St. Louis Water Dept.

Dillon, E. L., M. E., Fairbanks, Morse & Co.

Dobyne, S. A., Genl. Supt., Champion Shoe Mchy. Co.

Eckert, A. C., Counselor at Law, Pat. and Trade Mark Causes, 1401-1407 Internatl. Life Bldg.

Einstein, A. C., V. P., Genl. Mgr., Union Elec. Light & Power Co.

Evans, G. B., Asst. Genl. Mgr., Ch. Engr., Laclede Gas Light Co.

Fish, E. R., Secy., Heine Safety Boiler Co.

Flad, E., Cons. Engr., De Menil Bldg.

Freeman, B. W. (Jr.), Mgr., Benjamin W. Freeman Co.

Fuchs, H., Mgr., Mexican Dept., Fairbanks, Morse & Co.

Gazzam, J. P., 5027 Westminster Pl.

Gray, J. L., Mgr., Mfg. and Producing Depts., Pierce Oil Corp.

Gustafson, L., Supt., David Ranken Jr. Sch. of Mech. Trades.

Hecker, A. J., M. E., Designer, Tait & Nordmeyer Engrg. Co.

Helmreich, L. W., Head Dept. of Elec., David Ranken Jr. Sch. of Mech. Trades.

Hessenbruch, G. S., Asst. to Ch. Engr. of Power Plants, Union Elec. Light & Power Co., Supt. of Wks., St. Louis Co. Gas Co., Webster Groves.

Hoffman, W. A., Insp. of Boilers, Elev. and Smoke Abatement, City of St. Louis.

Holman, M. L., Cons. Engr., Holman & Laird.

Howes, R. L. (Jr.), Salesman, Fairbanks, Morse & Co.

Hunter, J., Ch. Engr., Union Elec. Light & Power Co.

Jewett, F. N., Sales Mgr., Wagner Elec. Mfg. Co.

Karl, R. H., Asst. Supvg. Engr., Anheuser Busch Brewing Asso.

Klein, G. F. (Jr.), Combustion Engr., Municipal Power Plants, City of St. Louis.

Kupferle, E., Pres., Kupferle Bros. Mfg. Co.

Laichinger, J., Ch. Engr., Tait & Nordmeyer Engrg. Co.

Lord, C. B., Genl. Supt., Wagner Elec. Mfg. Co.

Low, H. L., Second V. P., Natl. Light & Power Co.

MISSOURI, St. Louis (Continued).

- McCulloch, R., V. P., Asst. Genl. Mgr., United Rys. Co. of St. Louis.
 McDevitt, F. J. (Jr.), Dist. Mgr., Elliott Co., and Liberty Mfg. Co. of Pittsburgh, Pa.
 MacArthur, J. E., Genl. Supt., Robinson Fire Apparatus Mfg. Co.
 Miller, J. F. G., Engrg. Salesman, St. Louis Mgr., Am. Blower Co.
 Miltenberger, G. K. (Jr.), 1551 Pierce Bldg.
 Morehead, W. C., First V. P., Natl. Light & Power Co.
 Nicol, J., Engr. Serv. Dept., Mt. Olive & Staunton Coal Co.
 Nordmeyer, L. C., Secy., Treas., Tait & Nordmeyer Engrg. Co.
 O'Brien, J. E., Mech. Supt., Mo. Pac. Ry.
 Ohle, E. L., Prof. M. E., Washington Univ.
 O'Neil, J. F., Pres., Fulton Iron Wks.
 Peck, G. M., M. E. Charge Constr. Dept., St. Louis Water Wks.
 Peterson, C. H., Southwestern Rep., Baldwin Loco. Wks. and Stand. Steel Wks. Co.
 Radcliffe, R. L., St. Louis Mgr., Henry R. Worthington, 701 Laclede Gas Bldg.
 Reeves, W. H., Pres., Reeves & Skinner Mchy. Co.
 Roesti, P. G., M. E., Genl. Delivery.
 Rogers, N. S., Ch. Engr. Venice Power Sta., Ill. Traction System.
 Rosenbaum, H. H. (Jr.), Office Mgr., Sprague Elec. Wks.
 Rotter, M., Ch. Engr., Busch-Sulzer Bros-Diesel Eng. Co.
 Ruebel, C. A. E., Cons. M. and E. E., Pres., Ruebel & Wells Cons. Engrs. Co.
 Schadek, E. W., Ch. Engr., Ruemmel-Dawley Mfg. Co.
 Schlatter, R., Engr. Charge of Design, Busch-Sulzer Bros-Diesel Eng. Co.
 Schneider, R., Designing Engr., Busch-Sulzer Bros-Diesel Eng. Co.
 Schreck, H., Asst. Ch. Engr. Diesel Eng. Dept., Fulton Iron Wks.
 Schubart, F. H. (Jr.), Dist. Mgr., Wheeler Cond. & Engrg. Co.
 Schwarz, M., Supt., Schoenthaler Mfg. Co.
 Setz, H. R., Ch. Engr., Fulton Iron Wks.
 Skinner, R., Reeves & Skinner Mchy. Co.
 Smith, E. D., Ch. Engr., United Rys. Co.
 Stephens, T. S., Branch Mgr., Manning, Maxwell & Moore, Inc.
 Tacchella, A. A., Designer, Busch-Sulzer Bros-Diesel Eng. Co.
 Tenney, E. H., Asst. Ch. Engr. of Power Plants, Union Elec. Light & Power Co.
 Vennum, G. C., Asst. Ch. Engr. of Power Plants, Union Elec. Light & Power Co.
 Verhey, H. C., Ch. Designing Engr. Marine Eng. Dept., Busch-Sulzer Bros-Diesel Eng. Co.
 Viola, B., Ch. Engr., Monsanto Chem. Wks.
 Wadleigh, G. R., Ch. Engr., Bemis Bros. Bag Co.
 Westlake, C. T., Ch. M. E., Commonwealth Steel Co.
 Weston, B. H., Instr. Mch. Design, David Ranken Jr. Sch. of Mech. Trades.
 Whitlow, J. A., Ch. Dept. Gas, Elec., Heat and Water, Pub. Service Com. of Mo.
 Wilms, H. (Jr.), 6057 Horton Pl.
 Wright, S. (Jr.), Busch-Sulzer Bros-Diesel Eng. Co.
 Wurdack, H., Pres., Light & Development Co. of St. Louis.
- Springfield.**—Bowles, J. D., Supt. Elec. Dept., Springfield Gas & Elec. Co., Springfield Traction Co.
 Guckel, C. H. (Jr.), Genl. Mgr., Springfield Gas & Elec. Co., and Springfield Traction Co.
 Rosing, W. H. V., Spec. Engr., St. L. & S. F. R. R.
 Van Deinse, A. F. (Jr.), Genl. Mgr., Springfield Gas & Elec. Co.
- Webster Groves.**—Matlack, E. V., 515 Bompert Ave.
 Moore, S. H., Arch. and Engr., Forest and Selma Ave.

MONTANA

- Anaconda.**—Cunningham, G. H., Asst. Supt. Constr., Anaconda Copper Min. Co.
 Hull, M. R., Supt. Constr., Anaconda Copper Min. Co.
 McKibben, H. B. (Jr.), Draftsman, Anaconda Copper Min. Co.
 Wright, H. G., Supt. Constr., Anaconda Copper Min. Co.
- Billings.**—Schmalz, C. H., Mgr., Billings Fdy. & Mfg. Co.
- Butte.**—Charles, A. W., 302 Electric Bldg.
 Nordberg, C. V., M. E., Rep., Nordberg Mfg. Co.
 Rusterholz, R. W., Branch Mgr., Ingersoll-Rand Co.
- Great Falls.**—Klepinger, J. H., Asst. Supt. B. and M. Reduction Dept., Anaconda Copper Min. Co.
- Hysham.**—Buckingham, H. H. (Jr.).
- Missoula.**—Ferguson, H. M., M. E., Missoula Light & Water Co.
 Richter, A. W. (Jr.), Univ. of Mont.
- Thompson.**—Linley, F. H. (Jr.), M. E., Thompson Falls Power Co.

NEBRASKA

- Havelock.**—Nigh, G. W. (Jr.), Shop Engr., C. B. & Q. R. R.
- Lincoln.**—Chase, L. W., Head Prof. Agri. Engrg., Univ. of Neb.
 Chowins, C. E., Supt. of Bldgs., Grounds and Constr., Univ. of Neb.
 Elliott, B. G. (Jr.), Assoc. Prof. M. E., Univ. of Neb.
 Hoffman, J. D., Prof. M. E. and Practical Mech., Univ. of Neb.
- Omaha.**—Burton, W. D., M. E., McKeen Motor Car Co.
 Consoliver, E. L., E. E., Instr., Am. Auto. College.
 Fuller, C. E., Supt. M. P. and Mch., Union Pac. R. R. Co
 Harriman, N. F., Chem., Engr. of Tests, Union Pac. Lab.
 Kemp, F. I. (Jr.), 1007 Farnam St.
 McKeen, W. R., Pres., Genl. Mgr., McKeen Motor Car Co.
 Robertson, R. N., Power Engr., Am. Smelting & Refining Co.

NEVADA

- McGill.**—Duncan, L., M. E., Nev. Consltd. Copper Co.
- Reno.**—Scrugham, J. G., Prof. M. E., Dean Engrg. College, Univ. of Nev.

NEW HAMPSHIRE

- Berlin.**—Wolf, R. B., Mgr. of Mfg., Burgess Sulphite Fibre Co.
- Bretton Woods.**—Chapman, R. E. L., Supvg. Engr., Bretton Woods Co.
- Charlestown.**—Webber, S. S.
- Claremont.**—Bateman, G. W., Genl. Purchasing Agt., Sullivan Mch. Co.
 Fry, T. W., Secy., Wks. Mgr., Sullivan Mch. Co.
 Holdsworth, F. D., M. E., Sullivan Mch. Co.
- Concord.**—Lauder, G. B. (Jr.), Cons. E. E.
- Durham.**—Fairchild, F. P. (Jr.).
 Laton, T. J. (Jr.), Instr. in Drawing, N. H. College.
- Hanover.**—Cummings, W. W., Cons. and Contr. Engr.
- Hooksett.**—Bourne, S. N., Agt., Dundee Mills.

NEW HAMPSHIRE (Continued).**Manchester.**—Diman, W. G., Power Supt., Amoskeag Mfg. Co.

Manning, Capt. C. H., Ch. Engr., U. S. N. Ret., Cons. Engr., Chas. H. and Chas. B. Manning.

Portsmouth.—Hayes, W. P., Engr., R. B. Phillips Mfg. Co.**Walpole.**—Clarke, A.
Parkhurst, H.**NEW JERSEY****Aidene.**—Stillman, A. F., V. P., Secy., Watson Stillman Co.**Ampere.**—Henderson, R. H., Mgr., Henderson Elec. Co.

Knight, W., Engr. Dept., Crocker-Wheeler Co.

Waring, E. H., M. E., Crocker-Wheeler Co.

Wheeler, S. S., Pres., Crocker-Wheeler Co.

White, H. E., Controller Engr., Crocker-Wheeler Co.

Arlington.—Loomis, E. G., M. E., Arlington Co.

Pope, C. J. (Jr.), Power Plant Engr. Engr. Dept., Arlington Co.

Richardson, M. F., Operating Mgr., Arlington Co.

Atlantic City.—Manz, L. C., Asst. Engr., Supt., Water Dept., City Hall.

Purinton, A. J., Genl. Supt., Atlantic City & Shore R. R. Co.

Bayonne.—Ballou, J. McK. (Jr.), Draftsman, Babcock & Wilcox Co.

Barnaby, R. S. (Jr.), Inspr. of Material, Elco Co.

Conrad, E. B., Supt., Elec. Launch Co.

Cook, H. P. (Jr.), Production Dept., Babcock & Wilcox Co.

Darrow, H. V. W. (Jr.), Constr. Engr., N. Y. & N. J. Constr. Co.

Dombrowsky, W. F. (Jr.), Testing Engr. Proposition Dept., Babcock & Wilcox Co.

Edwards, S. H., Genl. Supt. Tide Water Oil Co.

Gulowsen, G. A., Draftsman, Babcock & Wilcox Co.

Harter, I., Jr., Supt., Babcock & Wilcox Co.

Inslee, H. C., Engr. on Plant Work, Babcock & Wilcox Co.

Jeanneret, L. E. (Jr.), Babcock & Wilcox Co.

Knowlton, E. K., Power Supt., Stand. Oil Co.

McClintock, A. P., Babcock & Wilcox Co.

Prentice, J., Genl. Foreman, Wrought Steel Forge Dept., Babcock & Wilcox Co.

Sargent, W. D., Oak St.

Sawyer, L. E. (Jr.), Asst. to Foreman Wrought Steel Dept., Babcock & Wilcox Co.

Smith, A., Pres., Bergen Point Iron Wks.

Sneddon, J. P., Babcock & Wilcox Co.

Wilson, J. A., Traveling Engr., Babcock & Wilcox Co.

Zachert, A. R., Ch. of Production Dept., Babcock & Wilcox Co.

Beverly.—Warren, A. G.**Bloomfield.**—Baylis, R. N., Pres., Engr., Baylis Co.

Crowell, H. W., Pres., Treas., Eureka Air Compressor Co., Inc.

Dempwolf, C. J. (Jr.), Primary Battery Div., Thomas A. Edison, Inc.

Libby, S. H., Engr. Hoist Dept., Sprague Elec. Wks.

Weichert, A. E., 54 Cleveland Terrace.

Bound Brook.—Austin, R. S. (Jr.), Constr. Engr., Cott-a-lap Co.**Bridgeton.**—Hess, H. L. (Jr.), Supt., Hess Steel Co., Treas., Hess-Ives Mfg. Co. of Philadelphia, Pa.

Janvier, H. A., Asst. M. E., Ferracute Mch. Co.

Smith, O., Pres., Ferracute Mch. Co.

NEW JERSEY (Continued).**Burlington.**—Conard, W. R., Inspc. Engr., Savings Institution Bldg.

Fritz, A. L. G. (Jr.), Supt. Constr. New Burlington Power Sta., Pub. Serv. Elec. Co.

Camden.—Atkinson, A. W., Asst. Treas., Victor Talking Mch. Co.

Blank, B. (Jr.), Inspr. Passenger Cars Paviaia Shops, Pa. R. R.

Burton, I. F., Supt., Victor Talking Mch. Co.

Carpenter, C. A. (Jr.), Genl. Foreman, Camden Iron Wks.

Fitts, J. L., Factory Mgr., Warren Webster & Co.

Kauffmann, F. F., Asst. to Ch. Engr., N. Y. Shipbuilding Co.

Matton, F. V., M. E., Camden Iron Wks.

May, De C., Chairman, N. Y. Shipbuilding Co.

Middleton, A. C., Secy., Victor Talking Mch. Co.

Miller, F. J. (Jr.), Asst. Engr., Warren Webster & Co.

Murray, H. H., M. E., Victor Talking Mch. Co.

Nesdahl, E., Warren Webster & Co.

Vosbury, W. D., Cons. Engr., Remington & Vosbury.

Webster, W., Pres., Warren Webster & Co.

Carneys Point.—Read, R. T. (Jr.), Safety Engrg., E. I. du Pont de Nemours & Co.**Carteret.**—Arnold, A. B., Dist. Engr., Am. Agri. Chem. Co.

Brown, J. J., V. P., Genl. Mgr., Wheeler Condenser & Engrg. Co.

Christie, E. W., M. E., Wheeler Condenser & Engrg. Co.

Goodrich, E. R. (Jr.), Asst. Engr., Wheeler Condenser & Engrg. Co.

Tyson, J. S. Y., Engr., Mex. Petroleum Corp.

Chrome.—Deacon, R. W., Supt., U. S. Metals Refining Co.**Dover.**—Lynd, R. E., Asst. Supt., Richardson & Boynton Co.**East Orange.**—Boller, A. P., Jr., 80 Prospect St.

Brooke, W. C. (Jr.), Inspr., East Orange Water Dept.

Laine, W. B., Engr., 75 Lenox Ave.

Newton, L. W., 18 N. 17th St.

Reimer, A. A., Engr. Water Dept., City Hall.

Shaw, L. E., Dir. Mech. and Elec. Depts., Engrg. Serv. Labs.

Edgewater.—Fabens, A. L. (Jr.), Supt., U. S. Aluminum Co.**Elizabeth.**—Barlow, E. H. (Jr.), M. E., Stand. Oil Co.

Briggs, W. C., Erie Ave. and Springfield Rd.

Holt, F. E., Singer Mfg. Co.

MacMaster, R. K., 454 Jefferson Ave.

Miller, L. B., 1025 E. Jersey St.

Moore, S. L., V. P., Genl. Mgr., Moore Bros. Co.

Newcomb, F. L. (Jr.), Asst. Ch. Draftsman, Genl. Engrg. Dept., Stand. Oil Co. of N. J.

Newcomer, M. (Jr.), Treas., Head Exper. Wk., Volotone Co.

Osterman, P. C., Asst. Supt., Am. Gas Furnace Co.

Prince, W. F., Fdy. M. E., 1365 North Ave.

Sidney, P., Singer Mfg. Co.

Elizabethport.—De Leeuw, A. L., M. E., Singer Mfg. Co.

Hey, H. A., Engrg. Dept., Singer Mfg. Co.

Peets, W. J. (Jr.), M. E., Singer Mfg. Co.

Florence.—Maxfield, D. E., Supt., Florence Iron Wks.**Fort Hancock.**—Birnie, Col. R., Sandy Hook Proving Ground.

Westervelt, W. I., Major Ordnance Dept., U. S. Gov., Sandy Hook Proving Ground.

Franklin Furnace.—Tillson, B. F., Head Min. Dept., N. J. Zinc Co.

NEW JERSEY (Continued).**Garwood.**—Mehl, W. B., Pres., Mehl Mch. Tool & Die Co.

Tuttle, W. S., Pres., Garwood Bronze & Iron Wks.

Gillette.—Thayer, H. C., Steam Engr., Lackawanna Blvd.**Glassboro.**—Nixon, B., Pac. Coast Rep., East. Mch. Tool Builders.**Gloucester City.**—Wegener, F. A. (Jr.), Asst. M. M., Welsbach Co.**Hackensack.**—Boyd, J. T., 231 Polify Rd.

Wyatt, E. W., 64 Passaic St.

Harrison.—Allerton, R. W., Supt. Erecting Dept., Henry R. Worthington.

Borehardt, A. H. (Jr.), Engr., Henry R. Worthington.

de Laval, C. G., Genl. Mgr., Henry R. Worthington.

Diepenbroek, J. F., Ch. Engr., Henry R. Worthington.

Dorer, O. H. (Jr.), Engrg. Dept., Henry R. Worthington.

Franklin, P. A. (Jr.), Supt. Newark Warehouse, Am. Sanitary Wks.

Grace, J. F., Designing Engr., Henry R. Worthington.

Howell, J. W., Engr. Edison Lamp Wks., Genl. Elec. Co.

Hunter, H. C. (Jr.), Otis Elev. Co.

Lapat, L. (Jr.), Erecting Engr., Henry R. Worthington.

Nickel, F. F., Engr., Henry R. Worthington.

Prest, H. M. (Jr.), Engrg. Dept., Henry R. Worthington.

Robinson, A. S. (Jr.), Hyatt Roller Bearing Co.

Shriver, H. T. (Jr.), Prop., T. Shriver & Co.

Sickles, E. C., Wks. Engr., Hyatt Roller Bearing Co.

Welford, P. G. (Jr.), Hyatt Roller Bearing Co.

High Bridge.—Alexander, E. E., M. E., Taylor-Wharton Iron & Steel Co.

Bench, A. R. (Jr.), Taylor-Wharton Iron & Steel Co.

Halyburton, F. J., Ch. Estimator, Taylor-Wharton Iron & Steel Co.

Kaley, G. B. (Jr.), Ch. Draftsman, Taylor-Wharton Iron & Steel Co.

Highwood.—Bates, C. J., Jr.**Hoboken.**—Anderson, R. M., Stevens Inst. of Tech.

Brownlee, R. B. (Jr.), Asst. to Ch. Engr., Cooper Hewitt Elec. Co.

Charavay, M. A. (Jr.), Instr. Exper. Engrg., Stevens Inst. of Tech.

Denton, J. E., Emeritus Prof. Engrg. Practice, Stevens Inst. of Tech.

Fletcher, A., Pres., Treas., W. & A. Fletcher Co.

Furman, F. De R., Prof. Mech. and Mch. Design, Stevens Inst. of Tech.

Ganz, A. F., Prof. E. E., Stevens Inst. of Tech.

Grupe, W. F. (Jr.), Mgr., Gefes Mch. Co., Inc.

Gunther, C. O., Prof. Math., Stevens Inst. of Tech., Cons. Engr., Spec. in

Chimney Design and Constr., P. O. Box 77.

Halliday, W. R., Asst. Prof. Mech. and Mch. Design, Stevens Inst. of Tech.

Jappe, K. W. (Jr.), 1210 Bloomfield St.

Kinsey, A. S., Supvg. Instr. Shop Practice, Stevens Inst. of Tech.

Knapp, E. R., Prof. Descriptive Geom. and Mech. Drawing, Stevens Inst. of Tech.

Kupfer, O., Jr. (Jr.), 300 Hudson St.

Le Page, C. B., Asst. Prof. Physics, Stevens Inst. of Tech.

Marshall, W. E. (Jr.), Instr., Stevens Inst. of Tech.

Martin, L. A., Jr., Prof. Mech., Dean Junior Class, Stevens Inst. of Tech.

Pryor, F. L., Prof. Exper. Engrg., Stevens Inst. of Tech.

Reckendorfer, J. K. (Jr.), Asst. to V. P., Am. Lead Pencil Co.

Riesenberger, A., Registrar, Treas., Stevens Inst. of Tech.

Schenck, C., Wks. Mgr., Ch. Engr., Elev. Supply & Repair Co.

Stanton, F. A. O'C. (Jr.), 91 River St.

Stevens, E. A., Pres., Hoboken Land & Improvement Co., Rd. Comr., State of N. J., Trenton.

NEW JERSEY, Hoboken (Continued).

Straub, H. L., Elev. Supply & Repair Co.

Van Patten, W. E., Superintending Power and Light Plants, M. & E. Div.,
D. L. & W. R. R.

Irvington.—Horstmann, H. J., Mgr., F. W. Horstmann Co.

Jersey City.—Abel, J., Treas., Factory Mgr., Mersereau Metal Bed Co.

Abrams, F. W. (Jr.), Engr., Stand. Oil Co., Claremont.

Bennett, A. N., Supt. Mfg. Dept., Safety Car Htg. & Ltg. Co.

Benton, M. F., M. E., 300 Communipaw Ave.

Berger, J. G., Industrial Power Engr., 18 Carlton Ave.

Brengel, F. J. (Jr.), Asst. Supt. Mfg. Dept., Safety Car Htg. & Ltg. Co.

Burghardt, H. D., Instr. Charge Mch. Shops, Wm. L. Dickinson H. S.

Chambers, C. E., Supt. M. P., Central R. R. of N. J.

Craig, J., M. E., 807-841 Garfield Ave.

Davey, W. (Jr.), Ch. Engr., Colgate & Co.

Deppeler, J. H., Supt., Goldschmidt Thermit Co.

Ducommun, E., Asst. Ch. Engr., Am. Sugar Refining Co.

Funk, N. E., 243 Washington St.

Hagar, A. P., Engr. Marine Dept., Safety Car Htg. & Ltg. Co.

Hamilton, H. A., Asst. Mgr., Mengel Box Co.

Hamilton, W. P. B., M. E., Mengel Box Co.

Hendrick, W. M. (Jr.), Asst. Engr., N. Y. Continental Jewell Filtration Co.

Henry, V. S. (Jr.), Asst. Engr., Safety Car Htg. & Ltg. Co.

Husted, C. M., Asst. Supt. Eagle Wks., Stand. Oil Co., Claremont.

Johnson, F. A., Cons. M. E., Pat. Atty., 22 Morris St.

Krause, A. E., Struc. and Mech. Engr., 345 Fairmount Ave.

Lembeck, O. A., Lembeck & Betz Eagle Brewing Co.

Lindstrom, N. O., Supt., A. B. See Elec. Elev. Co.

McIlvrid, J., V. P., Genl. Mgr., Stand. Gas Power Corp.

Macdonald, H. P., Supt., Snead & Co. Iron Wks.

Mathewson, F. E., Dir. Tech. and Industrial Dept., Wm. L. Dickinson H. S.

Parker, L. S., Vulcan Iron Wks.

Parker, T. R., Supt., Stand. Oil Co., Claremont.

Rink, G. W., M. E., M. P. Dept., Central R. R. of N. J.

Roberts, M. H. (Jr.), Factory Mgr., M. E., Mead-Johnson Co.

Sage, D., Power Supt., Hudson & Manhattan R. R. Co.

Sievers, E. J. (Jr.), Engr., Draftsman, Pub. Serv. Elec. Co.

Snyder, L. H. (Jr.), Joseph Dixon Crucible Co.

Stork, W. L. (Jr.), 212 Hancock Ave.

Tompkins, S. D., Pres., Smooth-on Mfg. Co.

Waldeck, L. E. (Jr.), Mfr. of Paper Boxes, 31 Oakland Ave.

Kearny.—Chapman, G., Draftsman, Nairn Linoleum Co.

Kenil.—Couch, A. D. (Jr.), Boiler House Supvr., Hercules Powder Co.

Leonia.—Matthews, F. E., Refrig. Engr.

Little Falls.—Thomson, J. S. (Jr.), Sales Engr., P. O. Box 292.

Lodi.—Jurgensen, J. C., Supt., United Piece Dye Wks.

Mahwah.—Pettis, C. D., Wks. Mgr., Am. Brake Shoe & Fdy. Co.

Sargent, F. W., Ch. Engr., Am. Brake Shoe & Fdy. Co.

Snow, E. J.

Maurer.—Gill, A. H., Supt. Perth Amboy Plant, Am. Smelting & Refining Co.

Layat, F., Supt. Constr. and Repairs, Am. Smelting & Refining Co.

Stone, M. A., Jr. (Jr.), Constr. Dept., Am. Smelting & Refining Co.

Millville.—Bigelow, C. H., Ch. M. E., Millville Mfg. Co.

Montclair.—Kent, R. T. (Jr.), Cons. Engr., 64 Orange Rd.

Kent, W., Cons. Engr., 64 Orange Rd.

NEW JERSEY (Continued).**New Brunswick.**—Freund, W. F. W. (Jr.), India Rubber Co.

Heck, R. C. H., Prof. M. E., Rutgers College.

Walther, A. C., Engr., Supt. Constr., Nixon Nitration Wks.

Whitaker, R. V., Jr., Supt., Neverslip Mfg. Co.

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Berryman, W. G. (Jr.), Sales Mgr., Earl E. Litz Co.

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Eberhardt, H. J., Secy., Designer, Newark Gear Cutting Mch. Co.

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Spicer, C. W., Pres., Spicer Mfg. Co.

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Waller, C. R., Ch. Engr., De Laval Steam Turbine Co.

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Simmons, H. M. (Jr.), Exper. Engr., 84 N. Pearl St.

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Ballin, A. E., Genl. Mgr., McIntosh & Seymour Corp.

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 Brennan, E. M., Engrg. Dept., Curtiss Aeroplane Co.
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 Brewster, H. B., Engr., H. S. Kerbaugh, Inc.
 Browne, F. A., 178 Walden Ave.
 Cardullo, F. E., Ch. Draftsman, Pierce-Arrow Motor Car Co.
 Carrier, W. H., Ch. Engr., Buffalo Forge Co., V. P., Cons. Engr., Carrier Air Conditioning Co.
 Cloudsley, D. B., Asst., to Ch. Engr., Bureau of Water.
 Cloudsley, J. B., Ch. Engr. Steam Power, Bureau of Water.
 Cooke, G. W., Supt., Pierce-Arrow Motor Car Co.
 Cooke, T. F. (Jr.), Asst. Secy., Charity Organization Soc.
 Criqui, A. A., Htg., Vent. and Fan Engr., Buffalo Forge Co.
 Danforth, N. L., Pres., John W. Danforth Co.
 Daugherty, S. B., Ch. Engr. Gas Eng. Dept., Snow Steam Pump Wks.
 Dollar, W. M., Cons. Engr., Bierbaum-Dollar, Inc.
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 Elmer, W., Supt. M. P., No. Div., Pa. R. R.
 Fergusson, D., M. E., Pierce-Arrow Motor Car Co.
 Ford, H. R., V. P., Charge of Engrg., McCarthy Bros. & Ford.
 Foster, C. C. (Jr.), Spec. Agt., Fidelity & Casualty Co.
 Gamble, W. J., Jr. (Jr.), M. E., Vulcan Steam Forging Co.
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 Gibney, J. W., Mgr., Taylor Iron Wks.
 Glepp, J. F., Contr. Engr., Wickes Boiler Co.
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 Haas, L. L. (Jr.), Asst. Supt., D. H. Stoll Co., Inc.
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 Hammond, R., Pres., Lake Erie Engrg. Wks.
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 King, W. G., Pres., King Sewing Meh. Co.
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 Lanigan, J. A., Fdy. Supt., Frontier Iron Wks.
 Lehn, H. C., Sales Engr., Internatl. Steam Pump Co.
 Lowell, F. C., Salesman, Prentiss Tool & Supply Co.
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- Phillips, C. H., Tool Designer, Pierce-Arrow Motor Car Co.
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- Powel, S. W., M. E., Am. Radiator Co.
- Quick, R. L. (Jr.), Curtiss Aeroplane Co.
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- Shepard, G. H., Efficiency Engr., 414 Delaware Ave.
- Sornberger, E. C., 208 Lancaster Ave.
- Sowers, D. W., Pres., Sowers Mfg. Co.
- Summers, D. (Jr.), Pleasure Car Sales Dept., George N. Pierce Co., care of Pierce-Arrow Motor Car Co.
- Thomas, H. K., Genl. Factory Supt., Asst. Genl. Mgr., Pierce-Arrow Motor Car Co.
- Traudt, W. F., Taber Pump Co.
- Trefts, J. C., Farrar & Trefts.
- Waugh, O. L. (Jr.), 45 W. Mohawk St.
- Wendt, H. W., Secy., Treas., Buffalo Forge Co.
- Wentzell, H. R. (Jr.), Production Engr., Curtiss Motor Co.
- Wilke, W., Mech. and Chem. Engr., 86 Norwood Ave.
- Yeager, A. J., Junior Partner, J. F. Witmer Co.
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- Younger, J., Ch. Engr., Truck Dept., Pierce-Arrow Motor Car Co.
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Woolley, H. O., M. E., Power Spec. Co.
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- Elmira.**—Eidmann, F. L., Box 151.
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Bond, F. M., Remington Typewriter Wks.
Brand, G. B., Remington Typewriter Wks.
Carlson, J. A., Industrial Engr., Remington Typewriter Wks.
Dawson, G. H., Engr., Charge Equip. New Wks., Remington Arms and Ammunition Co.
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Hall, W. H., Constr. Dept., Remington Union Metallic Cartridge Co.
Haughton, F. A., Wks. Mgr., Remington Arms & Ammunition Co.
Parsons, E. S., M. E., Remington Typewriter Wks.
Schmidt, W. A., Ch. Tool Designer, Remington Typewriter Wks.
Seib, G. A., Mech. Supt., Remington Typewriter Wks.
Underwood, C. N. (Jr.), Remington Typewriter Wks.**Ithaca.**—Albert, C. D., Asst. Prof. Mch. Design, Sibley College, Cornell Univ.
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Bradford, L. J. (Jr.), Instr. Mch. Design, Sibley College, Cornell Univ.
Calkins, M. E., Pres., Genl. Mgr., Cayuga Lake Cement Co.
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Ellenwood, F. O., Asst. Prof. Heat-Power Engrg., Sibley College, Cornell Univ.

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Hazzard, W. S. (Jr.), 125 Highland Pl.

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Stephenson, H. (Jr.), 116 E. Seneca St.

Wells, A. E., Prof. Mch. Constr., Supt. of Shops, Sibley College, Cornell Univ.

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Koch, H., 6 Highland Ave.

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Merritt, L. G., Pres., Merritt Mfg. Co.

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De Ved, H. W. (Jr.), Engr., N. Y. & Queens Elec. Light & Power Co.

Halbfass, A. J., Asst. Engr., Gasoline Div., Genl. Vehicle Co., Inc.

Kemble, P. H., N. Y. & Queens Elec. Light & Power Co.

Wagoner, P. D., Pres., Genl. Vehicle Co., Inc.

Woods, S. H., Asst. Engr. Elec. Div., Genl. Vehicle Co., Inc.

Zabriskie, W. H. (Jr.), Foreman, Stand. Oil Co. of N. Y.

Lyon Mountain.—Hoar, J. C. (Jr.), M. M., Chateaugay Ore & Iron Co.**Mt. Vernon.**—Brenzinger, J., V. P., Genl. Supt., Max Ams Mch. Co.

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& R. R. Co., Engr. Elec. Dept., Westchester Ltg. Co.

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H. Waters Co.**Maspeth, L. I. (New York City).**—Merrill, G. H. (Jr.), Secy., Merrill
Bros.**Matteawan.**—Blackburn, A. H., Treas., Genl. Mgr., Green Fuel Economizer
Co.**Middletown.**—Flory, B. P., Supt. M. P., Ont. & West. Ry. Co.**Montour Falls.**—Shepard, J. A., Secy., Ch. Engr., Shepard Elec. Crane &
Hoist Co.**Myers.**—Cooney, J. L., Supt., Internatl. Salt. Co.**New Berlin.**—Connell, J. J.**New Brighton, S. I. (New York City).**—Barnaby, C. W., Cons. Engr.,
257 Hamilton Ave.

Barnum, C. L., M. E., J. B. King & Co.

Hobson, R. B., 455 Kissel Ave.

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Gibson, E. E., Asst. Supt., Jones Speedometer.

Withington, S. (Jr.), Asst. Engr., McHenry & Murray.

New York City.—Abbott, E. R., N. Y. Rep., Taft-Peirce Mfg. Co.

Abell, H. C., M. E., care of Emerson McMillin & Co.

Abrams, H. T., Mgr. Pump and Calyx Drill Depts., Ingersoll-Rand Co.

Ackland, H. B., Engr., Westinghouse Church Kerr & Co.

Adams, J. (Jr.), Estimator, Otis Elev. Co.

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 Alcock, G. W., Engrg. Dept., Am. Loco. Co.
 Aldcorn, T., Genl. East. Sales Mgr., Chicago Peñu. Tool Co.
 Alden, J. D., Bronx Gas & Elec. Co., Westchester.
 Aldrich, H. L., Pres., Treas., Aldrich Publishing Co.
 Alexander, D. C., Jr., Foreign Rep., Niles-Bement-Pond Co.
 Alexander, H., E. and M. Contr. Engr., 18-20 W. 34th St.
 Alford, L. P., Editor, Am. Machinist, 10th Ave. and 36th St.
 Allan, W. T., A. Allan & Son.
 Allen, W. C. (Jr.), Pres., Yale & Towne Mfg. Co., also, Pres., Canadian Yale & Towne, Ltd., St. Catharines, Ont., Canada.
 Allyn, R. S., Counsel and Expt. Pat. Causes, Mitchell & Allyn.
 Almirall, J. A., Htg. and Vent. Engr., 1 Dominick St.
 Alrich, H. W., Asst. Engr. Constr., Consld. Gas. Co. of N. Y.
 Ammen, F. Du P., Pat. Atty., 200 Fifth Ave.
 Anderson, H., Jr. (Jr.), Inspr. Automatic Sprinkler Dept., N. Y. Fire Ins. Exch.
 Anderson, J. N., Engr., Otis Elev. Co.
 Anderson, W. E. (Jr.), Designer, Alberger Pump & Cond. Co.
 Angell, H. J. (Jr.), Sales Engr., Goulds Mfg. Co.
 Apps, C. H., Am. Loco. Co.
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 Arnott, R. F., Cons. Engr., 95-97 Liberty St.
 Arter, W. D. (Jr.), Supvr. of Apprentices, N. Y. C. & H. R. R. R.
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 Ashley, F. M. (Jr.), Pat. Atty., Cons. Engr., Ashley & Cohen.
 Astrom, C. P., Ch. Engr., M. H. Treadwell Co.
 Atkins, D. F., 727 Custom House Bldg.
 Atkins, H. B., Cons. Engr., Certified Pub. Acct., 90 West St.
 Atkinson, H. S., Production and Designing Engr. Clam Shell Bucket Dept., Hayward Co.
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 Bachelder, J. E. (Jr.), Fairbanks, Morse & Co.
 Bacon, E. C., Contr. and Cons. Engr., Havemeyer Bldg.
 Bacon, F. T. H., Cons. Engr., Ewing, Bacon & Henry.
 Bacon, G. W., M. E., Ford, Bacon & Davis.
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 Baker, E. F. (Jr.), Commer. Engr., Wickes Boiler Co.
 Baker, W. E., W. E. Baker & Co.
 Baldwin, W. J., Cons. Engr., 501 World Bldg.
 Ball, H. F., Pres., Economy Devices Corp.
 Bancel, P. A. (Jr.), M. E., Geo. H. Gibson Co.
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 Barnes, J. A., Inspr. Loco. Superheater Co.

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- Barron, C. M., Cons. Engr., R. W. Cameron & Co.
- Bartlett, D. D., Cons. Engr., Sloan, Huddle, Feustel & Freeman.
- Basford, G. M., Ch. Engr., R. R. Dept., Joseph T. Ryerson & Son.
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- Bastable, William M. (1915), Mgr. Pump. Dept., Fairbanks Morse & Co.
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- Bavier, C. S., Ch. Engr., 1 Madison Ave.
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- Block, L., Cons. Engr., 45 E. 42d St.
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- Blossom, F., Partner, Sanderson & Porter.
- Blum, A. N., M. E., Genl. Delivery.

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 Brown, E. W., V. P., Genl. Mgr., Sterling Salt Co.
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 Brown, M. C., Draftsman, Aetna Explosives Co.
 Brown, T. O., M. E., Westinghouse Church Kerr & Co.
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 Buensod, A. C., Tobacco Spec., Carrier Engrg. Corp.
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 Bulkeley, J. N., Cons. Engr., 120 Broadway.
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 Burns, E., Jr., Secy., Ch. Engr., Guarantee Constr. Co.
 Burr, W. H., Prof., C. E., Cons Engr., Columbia Univ.
 Buse, F. W., Dir., Deutsche Maschinenfabrik A. G. of Duisburg, Germany, care of Neumeyer & Dimond.
 Bushnell, D. S., Pres., N. Y. Transit Co.
 Bushnell, J. E. (Jr.), Engrg. Draftsman, Robins Conveying Belt Co.
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Saranac Lake.—Gremple, C. W., M. E.

Saugerties.—Van Voorhis, F. S. (Jr.), M. E., Diamond Mills Paper Co.

Scarsdale.—Muhlfeld, J. E., Sherbrooke Rd.

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Schenectady.—Alquist, K., Engr., Genl. Elec. Co.

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Brooks, L. C., E. E. Industrial Control Dept., Genl. Elec. Co.

Capp, J. A., Chief of Test Lab., Genl. Elec. Co.

Clarke, C. L., Cons. Engr., Genl. Elec. Co.

Cole, F. J., Ch. Cons. Engr., Am. Loco. Co.

Countant, J. G., Cons. Engr., 140 Park Pl.

Cross, G. P. S., Designing Draftsman, Genl. Elec. Co.

Dalton, W., Ch. Engr., Am. Loco. Co.

Dickinson, E. D., Asst. Engr., Steam Turbines, Genl. Elec. Co.

Dodge, A. R., Engr., Genl. Elec. Co.

Ely, W. G., Supt. Constr., Genl. Elec. Co.

Emmet, W. L. R., Cons. Engr., Genl. Elec. Co.

Eveleth, C. E., Commer. Engr. Car Equip., Genl. Elec. Co.

Fair, C., Engr. Power and Min. Engrg. Dept., Genl. Elec. Co.

Farquhar, E. H., Supt., Genl. Elec. Co.

Freer, W. G., Power Engr., Am. Loco. Co.

Gilbert, E. E., Sales Mgr. Turbine Dept., Genl. Elec. Co.

Heisler, C. L., 325 Glenwood Blvd.

Hewlett, E. M., Engr. Switchboard Dept., Genl. Elec. Co.

Hill, C. H., Designing Engr., Genl. Elec. Co.

Hobart, H. M., Cons. Engr., Genl. Elec. Co.

Johnson, L. G., Commer. Engr., Genl. Elec. Co.

Junggren, O. F., Engr. Turbine Dept., Genl. Elec. Co.

Knapp, E. C. (Jr.), 180 Furman St.

Knight, C. D., E. E., Ch. Engr. Industrial Control Dept., Genl. Elec. Co.

Kruesi, A. H., Engr. of Constr., Genl. Elec. Co.

Landreth, O. H., Prof. Engrg., Union College, and Cons. Engr.

Lane, A. M., Asst. Engr., Genl. Drawing Rm., Am. Loco. Co.

Lower, N. M., M. E., Loco. Stoker Co.

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 Mortensen, C. (Jr.), Designer Mch. Tool Dept., Genl. Elec. Co.
 Osborne, L. E., Ch. Draftsman, Loco. Stoker Co.
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 Potter, W. B., Engr. Ry. and Traction Dept., Genl. Elec. Co.
 Pratt, F. C., Asst. to Pres., Genl. Elec. Co.
 Reid, W. L., Genl. Wks. Mgr., Am. Loco. Co.
 Reist, H. G., M. and E. E., Genl. Elec. Co.
 Riddell, J., Mech. Supt., Genl. Elec. Co.
 Rohrer, A. L., Elec. Supt., Genl. Elec. Co.
 Rushmore, D. B., Ch. Engr. Power and Min. Dept., Genl. Elec. Co.
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 Smith, J. A., Genl. Supt., Genl. Elec. Co.
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 Stone, C. W., Cons. Engr., Genl. Elec. Co.
 Taylor, F. W., Charge Steam Turbine, Erection, Operation, Genl. Elec. Co.
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 Turner, C. P., Constr. Foreman, Constr. Dept., Genl. Elec. Co.
 Upp, J. W., Mgr. Switchboard Dept., Genl. Elec. Co.
 Vedder, J. N., Union College.
 Wiedemann, F. R. (Jr.), Draftsman, Weber Elec. Co.
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 Woodard, W. E., Asst. Ch. Engr., Am. Loco. Co.
 Yorkston, J. E., Engr., Charge Drafting Dept., Genl. Elec. Co.

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Hall, R. E., V. P., Sales Mgr., Goulds Mfg. Co.
 Payson, T. E., Genl. Supt., Seneca Falls Mfg. Co.
 Pomeroy, W. D., Genl. Supt., Goulds Mfg. Co.
 Shenberger, G. H. (Jr.), Goulds Mfg. Co.

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 Blauvelt, W. H., Cons. Engr., Semet-Solvay Co.
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 Briggs, A. J., M. E., Smith Premier Typewriter Co.
 Brown, A. T., Pres., Smith Premier Typewriter Co., Brown-Lipe Gear Co.,
 Pres., Brown-Lipe-Chapin Co.
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 Carhart, H. A., Pres. Smith Premier Wks., Smith Premier Typewriter Co.
 Caris, I. B., Mech. Engrs.' Office, Semet-Solvay Co.
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 Comly, G. Norwood, Soda Ash Dept., Solvay Process Co.
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 Cooper, H. R., Solvay Process Co.
 Cotton, G. G., Supt. Constr., Solvay Process Co.

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 Dunkle, H. E., Draftsman, Semet-Solvay Co.
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 Gordon, R. M., Asst. Engr. of Tests, Solvay Process Co.
 Griffin, C. L., Asst. Engr., Solvay Process Co.
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 Hager, E. C., Engr. Charge Power Plants, Solvay Process Co.
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 Herbert, C. G., Acting Ch. Engr., Solvay Process Co.
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 Klock, F. B., Solvay Process Co.
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 MacCorquodale, P. H., Asst. Supt., Church & Dwight Co.
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 Perry, S. B. (Jr.), 337 Mather St.
 Pierce, E. L., V. P., Semet-Solvay Co., V. P., By-Products Coke Corp.
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 Sanford, G. R., Semet-Solvay Co.
 Scott, W. D., Engrg. Asst., Syracuse Ltg. Co.
 Singer, S. C. (Jr.), Supt. Distribution, Syracuse Ltg. Co.
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 Swanson, H. O. (Jr.), Lab. Engr., H. H. Franklin Mfg. Co.
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 Tracy, L. S., Mgr. Soda Ash Dept., Solvay Process Co.
 Trotter, A. H., M. E., 620 Crouse Ave.
 Trump, C. C. (Jr.), Secy., Humphrey Gas Pump Co.
 Trump, E. N., V. P., Tech. Dir., Solvay Process Co., V. P., Semet-Solvay Co.
 Walker, W. C., Tech. Asst., Semet-Solvay Co.
 Wilkinson, J., M. E., H. H., Franklin Mfg. Co.
 Zohe, L. A., Solvay Process Co.

Tannersville.—Godfrey, E. S.

Tarrytown.—Hanshaw, G. O., Ch. Draftsman, J. D. Maxwell.
 Parsons, F. W., Supt., Raud Drill Co.

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 283 St. Pauls Ave.

Reeve, S. A., Cons. Engr., 20 Central Ave.

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 Bradley, W. J., Supt., Rail Joint Co.
 Caldwell, J. H., Pres., Genl. Mgr., Engr., Ludlow Valve Mfg. Co.
 Cluett, A. E., M. E., Cluett, Peabody & Co.
 Foster, C. H., Treas., Tolhurst Mch. Wks.
 Greene, A. M., Jr., Prof. M. E., Rensselaer Poly. Inst.
 Hammett, H. G., Hammett Mch. Wks.
 Hechler, F. G., Asst. Prof. M. E., Rensselaer Poly. Inst.
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 Ricketts, P. C., Pres., Prof. Mech., Rensselaer Poly. Inst.
 Streeter, R. L., Asst. Prof. M. E., Rensselaer Poly. Inst.
 Van Dervort, A. O. (Jr.), Supt., Hammett Mch. Wks.
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 Foster, W. B., V. P., Ch. Engr., Foster Bros. Mfg. Co.
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 Munson, E. G., Supt., Secy., Munson Bros. Co.
- Valley Stream.**—Morlan, W., Engr., Charge Pumping Sta., Queens Co. Water Co.
- Wappingers Falls.**—Field-Frank, C. (Jr.), Stand. Aniline Products, Inc.
- Washingtonville.**—Howells, C., Box 164.
- Waterford.**—Knickerbaecker, J., Pres., Eddy Valve Co.
- Watertown.**—Courtenay, C. R., Ch. Draftsman, N. Y. Eng. Co.
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 Halladay, H. F., Asst. Ch. Engr., N. Y. Air Brake Co.
 Hurd, H. J., Genl. Supt., M. E., J. B. Wise Ammunition Co.
 Kinne, C. E., M. E., Bagley & Sewall Co.
 Tomlines, T. L., Cons. Engr., Flower Bldg.
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- Wellsville.**—Bjornsson, C. A., Ch. Engr. Oil Eng. Dept., McEwen Bros.
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 McEwen, J. H., Pres., Genl. Mgr., McEwen Bros., Pres., Genl. Mgr., McEwen Mfg. Co., Tulsa, Okla.
 Moore, J. L., Ch. Engr., Factory Mgr., Kerr Turbine Co.
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- West Albany.**—Parthesius, H. J. (Jr.), Spec. Apprentice, N. Y. C. R. R.
- West New Brighton, S. I. (New York City).**—Gfrörer, A. H. (Jr.), M. E.
 Jones, W. A., M. E., Babcock & Wilcox Co.
 Lee, W. F., V. P., Ch. Engr., C. W. Hunt Co., Inc.
 Rupp, E. L., 181 New York Ave.
- Whitesboro, Oneida Co.**—Stone, W. G.
- Whitestone, L. I. (New York City).**—Burnett, E. S., Exper. Engrg., Hyd. Air-Compression, Research Engr., Precious Metals Tempering Co.

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 Bunker, R. U. (Jr.), M. E., Natl. Sugar Refining Co. of N. J.
 Cunningham, C. G., Engr., N. Y. C. & H. R. R. R. Co.
 Davis, J. P., 332 Palisade Ave.
 Freeman, J. P., Constr. Engr., Alex. Smith & Sons.
 Gref, W. H. (Jr.), Hillside Drive, Park Hill.
 Odell, W. H., M. E., Spec. Economic Generation and Application of Steam,
 165 Lockwood Ave.
 Roth, A. (Jr.), Charge Drawing Rm., Otis Elev. Co.
 Skinner, H. N. (Jr.), Mech. Dept., Alex. Smith & Sons Carpet Co.
 Van Deventer, J. H., 7 Philipse Pl.

NORTH CAROLINA

- Asheville.**—Waddell, C. E., Cons. Engr., 78 Patton Ave.
 Wright, C. S. (Jr.), Genl. Mgr., French Broad Mfg. Co.
- Burnsville.**—Harper, C. W. (Jr.), Engr.
- Canton.**—Robertson, R. B., Genl. Mgr., Champion Fibre Co.
- Charlotte.**—Burkholder, C. I., Genl. Mgr., So. Power Co.
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 Lee, W. S., Ch. Engr., So. Power Co.
 Mees, C. A., Designing Engr., So. Power Co.
 Tucker, F. S., Genl. Mgr., Spencer Mt. Stone & Brick Co.
 Whitted, Col. T. B., M. E., Realty Bldg.
- Goldsboro.**—Borden, W. H. (Jr.).
- Hickory.**—Reynolds, S. (Jr.), Salesman, Engr., Latta-Martin Pump Co.
- North Charlotte.**—McKee, J. F. (Jr.), M. E., Genl. Fire Extinguisher Co.
- Pinehurst.**—Tufts, L., Owner of Pinehurst, N. C.
- Raleigh.**—Andrews, W. J. (Jr.), M. E., 105 E. North St.
- West Raleigh.**—Ellis, W. T., Asst. Prof. M. E., N. C. College of Agri.
 and Mech. Arts.
 Satterfield, H. E., Prof. M. E., N. C. College of Agri. and Mech. Arts.
 Wheeler, F. B. (Jr.), Instr. Woodwork and Mech. Lab., N. C. Agri. and
 Mech. College.
- Whitney.**—Schweier, A. (Jr.), Asst. to Res. Engr., Tallassee Power Co.

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 Crouch, C. H., Dean College of M. and E. E., Univ. of N. D.

OHIO

- Akron.**—Adamson, C. F. (Jr.), Cons. Engr., 318 Hamilton Bldg.
 Bidwell, C. D., M. E., Internatl. Harvester Corp.
 Bigelow, M. J. (1904), Cons. Engr., Amelia Apts., Park St.
 Buck, T. E., Draftsman Exper. Dept., Internatl. Harvester Corp.
 Ericson, E. O. (Jr.), Engr., Firestone Tire & Rubber Co.
 Flanner, D. D., Treas., Genl. Mgr., Flanner Water Tube Boiler Co.
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 Jones, R. R., Asst. M. E., Firestone Tire & Rubber Co.
 Koza, A. H., Factory Statistician, Goodyear Tire & Rubber Co.
 Mathewson, J. S. (Jr.), Instr. Engrg., Univ. of Akron.

OHIO, Akron (Continued).

Mitchell, W. H., Insp., Canadian Niagara Power Co., Niagara Falls Power Co., Wellman Scaver Morgan Co.
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 Raymond, C. F., Industrial Engr., B. F. Goodrich Co.
 Replogle, M. A., 26 Belvidere Way.
 Riggs, F. S. (Jr.), Exper. Dept., Goodyear Tire & Rubber Co.
 Roe, M. W., M. E., Diamond Rubber Co.
 Sanderson, O. W. (Jr.), B. F. Goodrich Co.
 Shaw, E. C., Second V. P., Wks. Mgr., B. F. Goodrich Co.
 Shelton, W. A. (Jr.), B. F. Goodrich Co.
 Somerville, W. A. S., Engr., B. F. Goodrich Co.

Alliance.—Taylor, C. L., Ch. Engr., Morgan Engrg. Co.

Ashland.—Berggren, A. E., M. E., Faultless Rubber Co.
 Scott, G. W., Engr., Charge Mech. Dept., Faultless Rubber Co.

Barberton.—Kehoe, B. T., Genl. Foreman Stirling Drum Dept., Babcock & Wilcox Co.

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 Rowlands, R. A. (Jr.), Engrg. Dept., Babcock & Wilcox Co.
 Ruddy, W. (Jr.), Pittsburgh Valve & Fittings Co.
 Sadler, C. R., Asst. Supt., Babcock & Wilcox Co.
 Smith, W. E. (Jr.), Draftsman, Babcock & Wilcox Co.

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Chardon.—Mitchell, W. C., Engr.

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 Anderson, R. E. (Jr.), Junior M. E., U. S. Corps of Engrs.
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 Franz, W. G., Cons. Engr., Union Trust Bldg.
 Galbraith, G. W., Sales Mgr., Internatl. Steam Pump Co.

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 Gingrich, C. S. (Jr.), Cincinnati Milling Mch. Co.
 Goldsmith, N. O., Genl. Mgr., Weir Frog Co., East Norwood.
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 Hazelton, R. T., Supt., Ch. Engr., Cincinnati Milling Mch. Co.
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 Myers, C. C. (Jr.), Prof. Charge of Coördination, Univ. of Cincinnati.
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 Riesner, M., Ch. Engr., Laidlaw-Dunn-Gordon Co.
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 Ritter, H., Supt., Lunkenheimer Co.
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 Strauss, W. O., Adv. Mgr., Engr., R. K. LeBlond Mch. Tool Co.
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 Van Winkle, H. H. (Jr.), M. E., John H. McGowan Co.
 Viall, E., West. Editor, Am. Machinist, 3556 Monticeth Ave., Hyde Park.
 Wilson, L. G., Cons. Engr., Edwards Mfg. Co.
 Wood, H. M., Lodge & Shipley Mch. Tool Co.

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Arnold, G., Jr., Cleveland Frog & Crossing Co.
Bailliere, M. V. (Jr.), Asst. Engr., Lake Shore & Mich. So. Ry. Co.
Baker, R. E., Secy., Treas., Arthur G. McKee & Co.
Balkwill, S., M. E., Cleveland Frog & Crossing Co.
Ballard, F. W., Commr. Light and Heat Div., City of Cleveland.
Barnes, F. A., M. E., Geo. S. Rider & Co.
Bartol, G., Pres., Otis Steel Co.
Bates, A. H., Pat. Lawyer, 1028 Society for Savings Bldg.
Batt, W. L. (Jr.), Sales Engr., 1475 W. Clifton Blvd.
Baxter, B. M., M. E. with H. B. Prather, 662 Rockefeller Bldg.
Bechtel, A. L. (Jr.), M. E., Cleveland Punch & Shear Wks. Co.
Bever, J. J., Mgr. Fdy. Dept., Otis Steel Co.
Bidle, W. S., Pres., Treas., W. S. Bidle Co.
Brennan, J. T., Asst. Engr. Bridge Dept., Cuyahoga Co.
Brown, A. C. (Jr.), V. P., Brown Hoisting Mch. Co.
Brown, W., Ch. Engr., Blast Furnace and Steel Wks., Upson Nut Co.
Brown, W. H., Mfr., Brown Traflog Co.
Browning, V. R., Victor R. Browning & Co.
Brush, C. F., E. E., 481 The Arcade.
Carpenter, A. H., care of Estates Dept., Cleveland Trust Co.
Carson, W. R., Engr., Grasselli Chem. Co.
Chace, W. W., M. E., Cleveland Twist Drill Co.
Chadwick, L. S., Ch. Engr., Cleveland Fdy. Co., Cleveland Metal Products Co.
Cheney, W. L., Sales Mgr., Lucas Mch. Tool Co.
Clark, W. C. M., M. E., Rockefeller Bldg.
Clegg, R. I., Editor, V. P., *Wood Craft*, and *Castings*, Gardner Ptg. Co.
Collister, G. F., Mgr. Crucible and Alloy Steel Sales, Betz Pierce Co.
Connelly, L. E., V. P., D. Connelly Boiler Co.
Connelly, W. C., Pres., D. Connelly Boiler Co.
Cook, T. R., Ch. Engr., Willard Storage Battery Co.
Cox, J. D., Pres., Cleveland Twist Drill Co.
Cromwell, J. C., 1410 New England Bldg.
Danforth, R. H., Case Sch. of Applied Science.
Day, C. H., Engr., Grasselli Chem. Co.
Dean, A. M., M. E., Motor Dept., Ferro Mch. & Fdy. Co.
Decker, G. A., Wks. Engr., Warner & Swasey Co.
Deily, A. T. (Jr.), Erector, Allis-Chalmers Mfg. Co.
Dornbirer, J. G., Genl. Mgr., Cleveland Planer Wks.
Dunbar, J. H., M. E., Grasselli Chem. Co.
Einig, A. B. (Jr.), Motch & Merryweather Mch. Co.
Estep, H. C. (Jr.), Engrg. Editor, Penton Publishing Co.
Feiss, R. A., Genl. Mgr., Joseph & Feiss Co.
Ferguson, R., Mgr., Grant-Lees Gear Co.
Field, F., Pres., Field-Olds Co.
Foote, A. W., Pres., Foote Burt Co.
Fuller, B. D., Supt. of Foundries, Westinghouse Elec. & Mfg. Co., Cleveland and Allegheny City Wks.
Gaehr, D., Designing and Contr. Engr., 950-952 Rockefeller Bldg.
Gammeter, H. C., Mech. Expt., Am. Multigraph Co.
Gibson, C. D., Cleveland Mch. & Supply Co.
Giele, H. F., Fdy. Supt., Grabler Mfg. Co.
Gill, C., Pres., Genl. Mgr., Perfection Spring Co.
Green, J. B., Ch. Draftsman, Lucas Mch. Tool Co.
Griess, J., Jr., Second V. P., McMyler Interstate Co.

OHIO, Cleveland (Continued).

- Hale, H. C., Dist. Mgr., Ridgway Dynamo & Eng. Co.
 Harrison, H. T., Ch. Engr., Corrigan, McKinney & Co.
 Hassan, R. D., M. E., Cleveland Motor Cycle Mfg. Co.
 Henn, E. C., V. P., Genl. Supt., Natl-Acme Mfg. Co.
 Henn, O. L. (Jr.), Asst. to Supt., Natl-Acme Mfg. Co.
 Herr, D. D., Mem. of Firm, Arthur G. McKee & Co.
 Herron, J. H., Cons. Metallurgical Engr., 2041 E. 3d St.
 Hill, H. H., M. E., Dist. Mgr., Erie City Iron Wks.
 Hinchman, C. R., Engr., Am. Steel & Wire Co.
 Honsberg, A. A., M. E., Ret., 7202 Broadway.
 Hopkins, A. T., Asst. Genl. Mgr., Mech. Rubber Co.
 Horton, W. M., Jr. (Jr.), Asst. Supt., Kirk Latty Mfg. Co.
 Howe, Dr. C. S., Pres., Case Sch. of Applied Science.
 Hulett, F. E., Engr., Wellman-Seaver-Morgan Co.
 Hulett, G. H., V. P., Wellman-Seaver-Morgan Co.
 Isenberg, H. O. C., Ferro Mch. & Fdy. Co.
 Jessop, F. W., Wks. Mgr., Elec. Controller & Mfg. Co.
 Jones, E. H.
 Keller, J. M., Ch. Engr., Otis Steel Co.
 Kenner, E. R. (Jr.), Sales Engr., Allis-Chalmers Mfg. Co.
 Kling, L. A., Supt., G. C. Kuhlman Car Co.
 Kugel, H. K. (Jr.), Rock Foreman, Carland & Hecker.
 Larner, C. W., Hyd. Engr., Wellman-Seaver-Morgan Co.
 Lees, E. J., Pres., Lees-Bradner Co.
 Leighton, E. I., 1183 East Blvd.
 Little, C. H., Mgr., Universal Drafting Mch. Co.
 Lucas, H. M., Lucas Mch. Tool Co.
 McKechnie, R. R., M. E., Variety Iron & Steel Wks. Co.
 McKee, A. G., Cons. and Contr. Engr., Arthur G. McKee & Co.
 McNairy, A. B., Mfr., Hickox Bldg.
 Macklind, W. R., Mgr., Engrg. and Constr. Dept., Sherwin-Williams Co.
 Malthy, G. B., Genl. Mgr., Geo. B. Malthy Co.
 Markey, H. I. (Jr.), Hyd. Turbine Dept., Wellman-Seaver-Morgan Co.
 Matthews, J. G., Instr. Mech. Drawing, East Tech. H. S.
 Merryweather, G. E., Pres., Motch & Merryweather Mch. Co.
 Mesker, L. H., Kearney & Trecker Co.
 Miller, R. E., Mem. of Firm, Poland-Miller Co.
 Misch, A. A. (Jr.), Engr., Corrigan, McKinney & Co.
 Mitchell, C. N., Ch. Engr., Eclipse Motor Co.
 Moeller, F., M. E., Power and Min. Dept., Wellman-Seaver-Morgan Co.
 Moore, F. C., 9719 Parkgate Ave.
 Morrison, H., Sales Mgr., Hill Clutch Co.
 Murray, G. R., Pres., Euclid Stone & Brick Co.
 Nagy, B., Maintenance Engr., Natl. Lamp Wks., Genl. Elec. Co., Nela Park.
 Nelson, A. C., Cons. and Contr. Engr., 418 Rockefeller Bldg.
 Nesbit, E., Zinc Engr., Grasselli Chem. Co.
 Obrig, A., Otis Elev. Co.
 Oglebay, C., Pres., Ferro Mch. & Fdy. Co.
 Peck, E. C., Genl. Supt., Cleveland Twist Drill Co.
 Perry, E. D., 2040 E. 82d St.
 Pitkin, S. H., First V. P., Wellman-Seaver-Morgan Co.
 Plantinga, P. (Jr.), Pres., Gas Mch. Co.
 Pope, C. E., 1908 E. 73d St.
 Pope, H. L., Ferro Mch. & Fdy. Co.
 Prather, H. B., Cons. Mech. and Efficiency Engr., 662 Rockefeller Bldg.
 Quayle, L. A., Asst. Power Engr., Dept. of Pub. Utilities, Div. of Water.
 Randles, G. E., V. P., Charge of Mfg. and Sales, Foote-Burt Co.

OHIO, Cleveland (Continued).

- Rawson, W. B., Safety Engr., 2032 E. 115th St.
 Reid, M., Mech. and Cons. Engr., 506 Caxton Bldg.
 Rider, G. S., Cons. Engr., Geo. S. Rider & Co.
 Roberts, E. P., Cons. Engr., 2053 E. 96th St.
 Robertson, E. C. (Jr.), Production Mgr., Frantz Premier Co.
 Rodgers, H. P. (Jr.), M. E., 2099 E. 71st St.
 Rogers, R. W., Asst. Engr. Div. of Water, City of Cleveland.
 Root, V. A., Engr. Dept., Subers Fabric & Rubber Co.
 Ruble, J. S., Saml. Austin & Son Co.
 Ruetenik, B. P. (Jr.), Power Engr., Cleveland Ill. Co.
 Rusbatch, A., Supt., Rod Mills.
 Sague, S. R., Sales Engr. Power House Equip., Strong, Carlisle & Hammond Co.
 Schacha, A. L. (Jr.), Ch. Draftsman, Shaw-Kendall Engr. Co.
 Scott, F. A., Secy., Treas., Warner & Swasey Co.
 Scott, W. G. (Jr.), 3606 Prospect Ave.
 Sessions, F. L., Cons. E. and M. E., Pat. Expt., Rockefeller Bldg.
 Seymour, N. E. (Jr.), Instr. Mech. Drawing, East Tech. H. S.
 Sheridan, R. B., Genl. Mgr., Brown Hoisting Mch. Co.
 Smead, W. H., M. E., Box 352.
 Smith, E., Dist. Mgr., Detroit Stoker Co.
 Smith, H. J., Wks. Mgr., Ch. Engr., Hill Clutch Co.
 Stevenson, B., Sales Mgr. Cleveland Dist., Westinghouse Mch. Co.
 Stratton, H. F. (Jr.), Genl. Mgr., Ch. Engr., Elec. Controller & Mfg. Co.
 Stratton, J. H., Engr., Constr., Wellman-Seaver-Morgan Co.
 Stroud, E. G., Mgr., Cleveland Engrg. Agency, Prés., E. G. Stroud Co.
 Swasey, A., Pres., Warner & Swasey Co.
 Thiemer, W. H., M. M., Winton Motor Car Co.
 Vose, F. H., Prof. M. E., Charge Dept., Case Sch. of Applied Science.
 Walsler, A., Natl. Carbon Co.
 Warner, W. R., V. P., Warner & Swasey Co.; also 149 Broadway, New York, N. Y.
 Washburn, J. E., Asst. M. M., Natl. Carbon Co.
 Weager, T. A. (Jr.), Engr., Cleveland Mgr., Carrier Air Conditioning Co.
 Webster, L. B., Secy., Treas., West. Ohio Ry. Co.
 Welch, L. C., Supt. Cygnet Div., Buckeye Pipe Line Co.
 Wellman, S. T., Chairman, Wellman-Seaver-Morgan Co.
 Whitlock, E. H., Genl. Supt., Sandusky Portland Cement Co.
 Williams, T. B., Ch. Draftsman, Cleveland Metal Products Co.
 Wilson, H. M., Dist. Agt., Pittsburgh Valve, Fdy. & Constr. Co.
 Winton, A., Pres., Winton Motor Car Co.
 Wolff, J., M. E., Cleveland Elec. Ill. Co.
 Wright, R. A., M. E., 701 Citizens Bldg.

Columbus.—Anderson, A. R. (Jr.), E. E., Jeffrey Mfg. Co.

- Andrix, E. R. (Jr.), Asst. Supt. Power, Columbus Ry. & Light Co., Spring St. Power Sta.
 Armstrong, W. J. (Jr.), Sales Engr., Pulverizer and Crusher Dept., Jeffrey Mfg. Co.
 Arnold, H. F. W., Cons. Industrial Engr., 427 Columbus Savings and Trust Bldg.
 Babbitt, E. F., Engr. with F. L. Packard.
 Bailey, H. H. (Jr.), Constr. Engr., E. W. Clark & Co. Management Corp.
 Banks, T. D. (Jr.), Supt. Div. Garbage and Refuse Disposal, City of Columbus.

OHIO, Columbus (Continued).

- Biddison, P. M., Constr. Engr., Ohio Fuel Supply Co.
 Bone, W. H., V. P., Genl. Mgr., Ironsides Co.
 Boyd, J. E., Prof. Mech., Ohio State Univ.
 Brown, A. I. (Jr.), Instr. M. E., Ohio State Univ.
 Bush, H. M., Cons. Engr., 136 E. Gay St.
 Cole, J. W., Dist. Mgr., William Sellers & Co.'s Tool and Drill Grinders,
 and Detroit Emery Wheel Co., P. O. Box 84.
 Craiglow, H. H. (Jr.), Plant Engr., Buckeye Steel Castings Co.
 Elam, A. M., Charge of Drawing, Columbus Trade Sch.
 Fitz, E. M. (Jr.), E. E., M. P. Dept., Pa. Lines West of Pittsburgh.
 Frankenberg, G. T., Contr., Normandie Hotel.
 Ganschow, L. W. (Jr.), Electrolysis Engr., Central Union Telephone Co.
 Haswell, W. E., Secy., Ohio Bd. of Administration.
 Hirsch, G., Cons. Engr., 956 Jaeger St.
 Hitchcock, E. A., Power Sales Engr., E. W. Clark & Co. Management Corp.
 Hopkins, M. S., V. P., E. W. Clark & Co. Management Corp.
 Ives, F. W. (Jr.), Instr. Rural Engr., Ohio State Univ.
 Johnson, G. T., M. E., Buckeye Steel Castings Co.
 Judd, H., Assoc. Prof. Exper. Engrg., Ohio State Univ.
 Knight, W. A., Assoc. Prof. Mch. Shop Practice, Ohio State Univ.
 McCracken, W. C., Ch. Engr., Supt. Bldgs. and Grounds, Ohio State Univ.
 McMeen, S. G., Cons. Engr., Pres., Columbus Ry. & Light Co.
 Magruder, W. T., Prof. M. E., Ohio State Univ.
 Marquis, F. W., Prof. Steam Engrg., Ohio State Univ.
 Mount, C. H. (Jr.), M. E., Jeffrey Mfg. Co.
 Riddle, H. S., Cons. Engr., Ohio Bd. of Administration.
 Sanborn, F. E., Prof. Industrial Arts, Ohio State Univ.
 Smith, R. B., M. P. Inspr., Pa. Lines West.
 Svensen, C. L. (Jr.), Instr. M. E., Ohio State Univ.
 Wheelhouse, S. H., Mgr. Gas Furnace Dept., Columbus Htg. & Vent. Co.
 Wyer, S. S., Cons. Engr., Harrison Bldg.
 Yardley, R. W. E., Engr., Richards, McCarty & Bulford.

Conneaut, Ashtabula Co.—Brown, J. L., Mech. and Cons. Engr., R. F. D. No. 1.

Fickinger, P. J., M. E., P. & C. Dock Co.

Dayton.—Burrell, G. N. (Jr.), Y. M. C. A.

- Buvinger, G. A., Engr. Hyd. Dept., Platt Iron Wks. Co.
 Canby, H. B. (Jr.), V. P., Crawford, McGregor & Canby Co.
 Cooper, E. S. (Jr.), Draftsman Invention Dept., Natl. Cash Register Co.
 Custer, L. L. (Jr.), Test Dept., Natl. Cash Register Co.
 Deeds, E. A., V. P., Natl. Cash Register Co., Pres., Dayton Engrg. Labs. Co.
 Estabrook, H. M., Pres., Barney & Smith Car Co.
 Fassett, F. K., Inventor, Designer, Pat. Atty., 1309 U. B. Bldg.
 Fogarty, W. J., M. E., Barney & Smith Car Co.
 Hopkinson, J., Supt., Computing Scale Co.
 Jones, I. E., Genl. Mgr., Brownell Co.
 Kettering, C. F., V. P., Asst. Genl. Mgr., Dayton Engrg. Labs. Co.
 Kressler, O., Maintenance Engr., Dayton Engrg. Labs. Co.
 Malm, A. C. V., Supt., Egly Register Co.
 Martin, H. A., Head Invention 5, Natl. Cash Register Co.
 Ohmer, J. F., Jr. (Jr.), Sales Dept., Ohmer Fare Register Co.
 Ripsch, C. W. (Jr.), Cons. M. E., 113 Hawthorn St.
 Rowe, D. R. (Jr.), Ch. Engr., Kidder-Oswald Co.
 Schneble, R. G., Cons. M. E., 1627 E. 3d St.
 Vaile, J. H., Pres., Treas., Vaile & Kimes.
 von Pein, E. J., Inventor, Designer, Natl. Cash Register Co.

OHIO, Dayton (Continued).

Wells, E. C., Platt Iron Wks. Co.

Yates, R. L. (Jr.), Asst. Sales Mgr., Platt Iron Wks. Co.

Zugetter, G. E. (Jr.), Tool Designer, Dayton Engrg. Labs. Co.

East Cleveland.—Miller, W., 24 Rosemont Rd.**Elyria.**—Gray, W. E., Genl. Sales Mgr., Enameled Pipe & Engrg. Co.

Martell, L. H., Specialist in Metal Packings.

Nailler, R. F., 244 E. 9th St.

Piercy, E., 218 Washington Ave.

Findlay.—Wadsworth, A. V., Supt., Buckeye Traction Ditcher Co.**Hamilton.**—Ayers, N. B., M. E., Champion Coated Paper Co.

Cullen, J. K., Pres., Niles Tool Wks.

Davis, J. F. (Jr.), Supt., Beckett Paper Co.

Frechtling, A. G. (Jr.), 216 N. C St.

Glaser, C. E. (Jr.), Mech. Draftsman, Hooven, Owens, Rentschler Co.

Hazelton, W. S., Cullen & Vaughn Co.

Helvey, C. H. (Jr.), Sales Mgr., 303 N. 2d St.

Hepke, G. A. (Jr.), Sales and Estimating Engr., Hooven, Owens, Rentschler Co.

Hunt, H. V., Supt., Hooven, Owens, Rentschler Co.

Kutter, H. L., Secy., Sales Mgr., Engr., Black-Clawson Co.

Mayo, W. B., Secy., Genl. Mgr., Hooven, Owens, Rentschler Co.

Merrill, E. R., Plant Engr., Niles Tool Wks. Co.

Mitchell, G. C., Head of Production and Engrg. Depts., Hooven, Owens, Rentschler Co.

Rentschler, G. S. (Jr.), V. P., Fdy. Mgr., Hamilton Fdy. & Meh. Co.

See, J. W., M. E., Rentschler Bldg.

Trowbridge, F. C. (Jr.), Pres., Genl. Mgr., Black-Clawson Co.

Wood, A., Ch. Draftsman, Niles Tool Wks. Co.

Hillsboro.—Shirley, L. E., Supt., C. S. Bell Co.**Ivorydale.**—Anderson, R., Ch. Engr., Proctor & Gamble Co.

Manley, S. M. (Jr.), Asst. M. E., Proctor & Gamble Mfg. Co.

Kent.—Smith, R. H. (Jr.), Secy., Treas., Genl. Mgr., Falls Rivet Co.**Lexington.**—Hopkins, L. C., Ch. Engr., Smith Gas Power Co.

Smith, H. F., Secy., Genl. Mgr., Smith Gas Power Co.

Lima.—Albridge, F. R., Drawing Rm. Inspr., Lima Loco. Corp.

Austin, W. A., Ch. Engr., Lima Loco. Corp.

Barrett, D. O. (Jr.), Ch. Engr., Power Mfg. Co.

Buckley, J. F., Genl. Mgr., Buckley Spec. & Mch. Co.

Wall, G. L., V. P., Lima Loco. Corp.

Lorain.—Brown, E. W., Asst. Supt. Blast Furnaces, Natl. Tube Co.

Farkell, G. C., Supt. Rail Mill and Mech. Dept., Natl. Tube Co.

Lundgren, C. G., M. M., Natl. Tube Co.

Pinkney, D. H., Ch. Draftsman, Pipe and Tube Mill Dept., Natl. Tube Co.

Suppes, M. M., Natl. Tube Co.

Waterman, F. W., M. E., Natl. Tube Co.

Mt. Vernon.—Thomas, F. H. (Jr.), Sales Engr., C. & G. Cooper Co.**Mansfield.**—Bancroft, G. A. (Jr.), Designer, Aultman & Taylor Mchy. Co.

Brown, J. R., M. E., Ohio Brass Co.

Brunger, H. L., Ch. Engr., Aultman & Taylor Mchy. Co.

Olson, L. W., Supt., Wks. Mgr., Ohio Brass Co.

Rice, G. W., Wks. Mgr., Aultman & Taylor Mchy. Co.

Schaller, H. W. (Jr.), Designer, Aultman & Taylor Mchy. Co.

OHIO (Continued).

- Marion.**—Fellmeth, J. W., Asst. Engr., Marion Steam Shovel Co.
 Jacoby, B., M. E., Marion Steam Shovel Co.
 Johnson, C. S., Engr., Marion Steam Shovel Co.
 King, C. B., Ch. Engr., Marion Steam Shovel Co.
 McNeil, M. C., Asst. to Pres., Osgood Co.
- Massillon.**—Garrigues, E., Ch. Engr., Russell & Co.
 Heggem, C. O., Genl. Supt., Russell & Co.
- Miamisburg.**—Carpenter, C. U., Pres., Fire-Proof Furniture & Constr. Co.,
 Pres., Midland Ores & Patents Co., New York, N. Y.
- Middletown.**—McCann, W. E. (Jr.), Salesman, Am. Rolling Mill Co.
 Sharkey, W. E. (Jr.), Asst. to Ch. Engr., Miami Cycle & Mfg. Co.
- Mingo Junction.**—McConnell, M. F., Supt. Mingo Steel Wks. and Furnaces, Carnegie Steel Co.
 McGee, F. R., M. E., Mingo and Bellaire Wks., Carnegie Steel Co.
 Tipton, W. H. (Jr.), Steam Engr. Mingo and Bellaire Wks., Carnegie Steel Co.
- Newark.**—Blair, F. M., V. P., Genl. Mgr., Blair Mfg. Co.
- Niles.**—Taylor, J. W., Ch. Engr., Harris Automatic Press Co.
- Norwood.**—Curtis, E. H., Jr. (Jr.), M. E., 1981 Cleneay Ave.
 Hecker, H. A., 2032 Elm Ave.
- Piqua.**—Hartley, H. D. (Jr.), Pioneer Pole & Shaft Co.
- Portsmouth.**—Turley, C. L. (Jr.), Supt., Engr., Portsmouth Eng. Co.
 York, L. D., Pres., Portsmouth St. R. R. & Light Co.
- Ravenna.**—Beckwith, H. C., Treas., Genl. Mgr., Byers Mch. Co.
- St. Bernard.**—Stickel, C. P. (Jr.), M. E., M. M., Globe Soap Co.
- Salem.**—Cooper, G. S., M. E., Buckeye Eng. Co.
 Emeny, F. J., Ch. Engr., Deming Co.
 Hunt, C. B., Supt. Constr., Buckeye Eng. Co.
 Mansfield, A. K., 283 Lincoln Ave.
- Sandusky.**—Millsbaugh, W. H., Pres., Sandusky Fdy. & Mch. Co.
- Springfield.**—Bauer, C. L., Pres., Bauer Bros. Co.
 Bayley, W., Pres., Ch. Engr., Wm. Bayley Co.
 Heinze, J. O., John O. Heinze Co.
 Hoppes, J. J., Pres., Hoppes Mfg. Co., Trump Mfg. Co.
 Kelly, O. W., Pres., O. S. Kelly Co.
 Perks, G. W., Supt., Am. Seeding Mch. Co.
 Shoumlin, P. J., Prop., Superior Gas Eng. Co.
 Stewart, H. M. (Jr.), Kelly-Springfield Motor Truck Co.
- Tiffin.**—Findley, W. D., Ch. Engr., Webster Mfg. Co.
- Toledo.**—Boblett, K. M., Radiator Expt., Kinsey Mfg. Co.
 Butler, T. M. (Jr.), Wks. Mgr., Toledo Steel Barrel Co.
 Calder, C. B., V. P., Genl. Mgr., Toledo Shipbuilding Co.
 Dodge, F. H., Pres., Milburn Wagon Co.
 Dorman, N. W. (Jr.), Mch. Designer, Toledo Mch. & Tool Co.
 Fichter, C., Combustion Engr., Toledo Sugar Co.
 Hallenbeck, G. E., Genl. Supt., Baker Bros.
 Hem, H. O., Cons. Engr., Toledo Scale Co.
 Hill, R. F. (Jr.), Ch. Draftsman, Natl. Supply Co.
 Rathbun, E., Second V. P., Rathbun-Jones Engr. Co.
 Rathbun, G. J., V. P., Engr., Rathbun-Jones Engr. Co.
 Smith, D. F. (Jr.), 2323 Robinwood Ave.
 Smith, P. F., Jr., Supt. M. P., Pa. Lines.

OHIO, Toledo (Continued).

Waring, C. A., 2902 Parkwood Pl.

Wolfgang, W. H. (Jr.), Designer, Natl. Supply Co.

Yaryan, H. T., V. P., Yaryan Naval Stores Co.

Wapakoneta.—Hartford, J. A., Secy., Genl. Mgr., Breese Motor Plow Co.

Warren.—Gorton, J. C., Cons. Engr., 210 Olive St.

Wickliffe.—Robbins, C. C., Secy., Genl. Mgr., Cleveland Crane & Engrg. Co.

Xenia.—Garfield, L. M., Supt., Miami Powder Co.

Youngstown.—Bixler, H. Z., Ch. Engr., Brier Hill Steel Co.

Bray, T. J., Pres., Republic Iron & Steel Co.

Dalas, F. L. (Jr.), Insp. E. and M. Dept., Youngstown Sheet & Tube Co.

Gowie, W., 157 Warren Ave.

Kahn, J., Pres., Trussed Concrete Steel Co.

Kane, T. H., Wks. Mgr., Trussed Concrete Steel Co.

McBane, W. W., Engr., William Tod Co.

Nibecker, K., Steam Engr., Youngstown Sheet & Tube Co.

Robinson, C. S., Second V. P., Youngstown Sheet & Tube Co.

Smith, G. M., Ch. Engr., Walter Rachals & Co.

Smith, P. M. (Jr.), Designer, William Tod Co.

Swift, H. L. (Jr.), Engrg. Dept., Mahoning and Shenango Ry. & Light Co.

Talbot, H. H., Engrg. Dept., William Tod Co.

Thomson, F. du P., Pres., Humphrey Pump Constr. Co., care of William Tod Co.

Wear, B. C. (Jr.), Youngstown Sheet & Tube Co.

Wick, H., 710 Dollar Savings & Trust Co. Bldg.

Willock, S. R., Sales Engr., William Tod Co.

Wilson, R. A. (Jr.), Erecting Engr., William Tod Co.

Woodard, L. A., V. P., Genl. Mgr., William Tod Co.

Young, J. P., Pres., Reinforced Tile Roof Co.

Zanesville.—McCoy, W. (Jr.), M. E., Am. Encaustic Tiling Co.

Mark, P. C., Asst. Mgr., Mark Mfg. Co.

OKLAHOMA

Bartlesville.—Davis, H. R., Quapaw Gas Co.

Fisher, F. P., Asst. Genl. Mgr., Wichita Natural Gas Co.

Fisher, J. P., Ch. Engr., Quapaw Gas Co.

Hickstein, E. O. (Jr.), M. E., Wichita Natural Gas Co.

Dewey.—Fowden, W., Supt., Dewey Portland Cement Co.

Oklahoma City.—Martin, M., 809 W. Chickasaw St.

Ponca City.—Dunton, P. R., Supt., Municipal Water and Light Plant.

Stillwater.—Jablow, C., Assoc. Prof. M. E., Okla. Agri. and Mech. College.

Kunze, E. J., Prof. M. E. Charge of Dept., Okla. Agri. and Mech. College.

OREGON

Corvallis.—Graf, S. H. (Jr.), Prof. Exper. Engrg., Ore. State Agri. College.

Miller, F. M. (Jr.), Instr., Exper. Engrg., Ore. Agri. College.

Rosencrants, F. H. (Jr.), Asst. Prof. M. E., Ore. Agri. College

Portland.—Ball, B. C., V. P., Genl. Mgr., Willamette Iron & Steel Wks.

Grelle, C. E. (Jr.), Pres., Mgr., Independent Fdy. Co.

Hill, B. W. (Jr.), Hill Military Academy.

Hoyt, R. D., V. P., Genl. Mgr., Warren Constr. Co.

Lazell, E. W., Cons. Engr., Edwards & Lazell.

McBride, F. R. (Jr.), Real Estate, Investments, 507 Broadway Bldg.

Warren, W. B., V. P., Warren Bros. Co.

PENNSYLVANIA

- Allentown.**—Erdell, W. E., Pres., Genl. Mgr., Penn-Allen Cement Co.
Flexer, S. E., 642 N. 9th St.
Gish, J. A., Jr., 609 N. 7th St.
Milnor, T. W., Pres., Kline Hardware Co.
Robinson, H. B., M. E., Supt. of Shops, Allentown Rolling Mills.
- Altoona.**—Bennett, R. G., Inspr. Test Dept., Pa. R. R.
Buckwalter, T. V., M. E. Dept., care of J. V. B. Duer, Asst. Engr., Pa. R. R.
Donaldson, H. R. (Jr.), University Club.
Dunbar, W. O., Asst. Engr. Test Dept., Pa. R. R.
Heinemann, A. L. (Jr.), Instr. of Apprentices, Pa. R. R.
Kiesel, W. F., Jr., Asst. M. E., Pa. R. R.
Koch, G. B., Genl. Foreman, South Altoona Foundries, Pa. R. R.
Pease, O. D. A., Test Dept., Pa. R. R.
Rhoads, G. E. (Jr.), Asst. Foreman Loco. Test Plant, Pa. R. R.
Wallis, J. T., Genl. Supt. M. P., Pa. R. R., Lines East of Pittsburgh.
Williams, I., Inspr., Pa. R. R.
Yoder, J. H. (Jr.), Supvr. Apprentice Schs., Pa. R. R. Lines East of Pittsburgh.
Young, C. D., Engr. of Tests, Pa. R. R.
- Ambridge.**—Bernard, J. L., M. E., Am. Bridge Co.
Gilson, H. R., Ch. Engr., Natl. Metal Molding Co.
- Apollo.**—Lock, R., Pres., Mgr., Apollo Steel Co.
- Ardmore.**—Bachman, B. B., Engr., Autocar Co.
- Bangor.**—Werner, J. E., Ch. Draftsman, S. Flory Mfg. Co.
- Bath.**—Franks, F. B., Mgr. Operating and Constr., Cement Plant, Bath Portland Cement Co.
- Beaver Falls.**—Walker, F. W., Jr. (Jr.), Asst. Genl. Mgr., Beaver Falls Art Tile Co.
- Berwick.**—Williams, W. E., Local Engr., Am. Car & Fdy. Co.
- Bethlehem.**—Krause, A. E., 67 Lehigh Ave.
Lawatsch, F. R., Engrg. Draftsman, Guerber Engrg. Co.
Leshner, P. T., Constr. Engrg. Dept., Bethlehem Steel Co.
Nagle, A. F., Ret., 22 S. High St.
Pettinos, G. F., Mfr., Miner of Graphite, Pettinos Bros.
- Braddock.**—Brodan, E. H., Supt., Am. Steel & Wire Co.
Chess, H. B., Jr., Pres., Consld. Expanded Metal Cos.
Danks, A. C. (Jr.), Gas Engr., Ch. Engr. Elec. Power Sta., Carnegie Steel Co.
- Bradford.**—Müllhaupt, A., Jr. (Jr.), M. E., Corliss Carbon Co.
Rose, J. H., Secy., Genl. Mgr., Bradford Elec. Light & Power Co.
- Bridgeport, Montgomery Co.**—Bray, C. W., R. D. No. 1.
- Bridgeville.**—Anderson, R., Factory Supt., Flannery Bolt Co.
Ferrier, W., Asst. Supt., Am. Vanadium Co.
Landgraf, F. K., Genl. Supt., Flannery Bolt Co.
Scott, T. W. (Jr.), Draftsman, Flannery Bolt Co.
- Bristol.**—Dodds, W. E., Genl. Mgr., Stand. Cast Iron Pipe & Fdy. Co.
- Brookville.**—Jenks, W. H.
- Bryn Mawr.**—Ely, T. N., Ch. of M. P., Pa. R. R., Ret.
- Burnham.**—Fry, L. H., Supt. of Product, Stand. Steel Wks. Co.
Skinner, O. C., Supt. of Mfg., Stand. Steel Wks. Co.

PENNSYLVANIA (Continued).

- Butler.**—Allman, J. H., Mgr. Wks., Stand. Steel Car Co., Forged Steel Wheel Co.
 Christianson, A., Ch. Engr. Engrg. Dept., Stand. Steel Car Co.
 Houghton, C. A. (Jr.), Ch. Engr., Pittsburgh & Butler Ry. Co.
 Sutherland, J. I. (Jr.), Estimator, Stand. Steel Car Co.
- Carbondale.**—Hamilton, W. J., Secy., Hendrick Mfg. Co.
 Hiller, N. H., Pres., Carbondale Mch. Co.
 Kassander, A. R. (Jr.), Carbondale Mch. Co.
- Catasauqua.**—Brodhead, A. L. (Jr.), Cons. Engr.
 Fuller, Col. J. W., Jr., Pres., Lehigh Car, Wheel & Axle Wks.
- Cementon.**—Hochstrasser, A., Supt. Wks., Whitehall Cement Mfg. Co.
- Chester.**—Ellis, H. A., Pres., Light Ry. Equip. Co.
 Faison, W. A. (Jr.), Supt., Atlantic Steel Castings Co.
 Kite, H. J. (Jr.), Asst. Maintenance Engr., Am. Steel Foundries.
 Reynolds, J. J. (Jr.), Genl. Supt., Thurlow Steel Wks., Inc.
 Shiland, F. H. (Jr.), Engr., Chester Paper Co.
- Chestnut Hill.**—Forsyth, W., M. E., 112 Moreland Ave.
- Coatesville.**—Entrekin, N. R., Genl. Supt., Worth Bros. Co.
 Haldeman, P. C. (Jr.), M. M., Lukens Iron & Steel Co.
 Huston, C. L., V. P., Wks. Mgr., Lukens Iron & Steel Co., V. P., Wks. Mgr., Jacobs-Shupert U. S. Fire Box Co.
- Conshohocken.**—Logan, J. W., Mgr., Steel Wks. Dept., Allan Wood Iron & Steel Co.
- Corry.**—Lewis, E. J., Supt., Climax Mfg. Co.
- Crafton.**—Ashworth, D., Cons. Engr., 67 W. Ridge Ave.
- Crum Lynne.**—Rogers, J. I. (Jr.), Treas., Engr., Eagan-Rogers Steel & Iron Co.
- Devon.**—Wilson, P. H., Cons. Engr., Waterloo and Exeter Aves.
- Duquesne.**—Ahlen, W., Ch. Engr., Carnegie Steel Co.
 Bailey, H. M. (Jr.), Safety Engr., Carnegie Steel Co.
- East Downingtown.**—Standley, A. H. (Jr.), V. P., Genl. Supt., Downingtown Mfg. Co.
- East Pittsburgh.**—Auel, C. B., Dir. of Standards, Processes and Materials, Westinghouse Elec. & Mfg. Co.
 Babcock, S., Genl. Foreman Power Plant, Westinghouse Elec. & Mfg. Co.
 Bathgate, O. H., Wks. Steam Engr., Westinghouse Elec. & Mfg. Co.
 Bertsch, J. C., Refrig. Engr., Westinghouse Mch. Co.
 Blieman, J. A., Asst. Supt., Westinghouse Elec. & Mfg. Co.
 Ehrhart, R. N., Engr. Condenser Dept., Westinghouse Mch. Co.
 Feicht, R. S., Mgr. of Engrg., Westinghouse Elec. & Mfg. Co.
 Fredette, J., Supt. Tools and Equip., Westinghouse Mch. Co.
 Harrold, F. F., Tool Designer, Supvr., Westinghouse Elec. & Mfg. Co.
 Herr, E. M., Pres., Westinghouse Elec. & Mfg. Co.
 Herr, H. T., V. P., Genl. Mgr., Westinghouse Mch. Co.
 Hodgkinson, F., M. E., Westinghouse Mch. Co.
 Johnson, C. W., Genl. Supt., Westinghouse Elec. & Mfg. Co.
 Johnson, J. F., Asst. Engr. Turbine Dept., Westinghouse Mch. Co.
 Keating, T. E., Engr. Turbine Engrg. Dept., Westinghouse Mch. Co.
 Kothny, G. L., M. E., Westinghouse Mch. Co.
 Lester, B., Sales Engr., Westinghouse Elec. & Mfg. Co.
 McCallister, E. W., Westinghouse Mch. Co.
 Martin, F. S., Supt. Industrial Motor Dept., Westinghouse Elec. & Mfg. Co.
 Mills, C. B., M. E. Charge Drafting Rm., Westinghouse Elec. & Mfg. Co.

PENNSYLVANIA, East Pittsburgh (Continued).

Norris, E. R., Dir. Mfg. Operations, Westinghouse Elec. & Mfg. Co.
 Pulis, W. E. (Jr.), Industrial Engr., Westinghouse Elec. & Mfg. Co.
 Rose, E. E. (Jr.), Engr., Westinghouse Elec. & Mfg. Co.
 Schoepf, T. H., Genl. Engr., Westinghouse Elec. & Mfg. Co.
 Smith, W. W., Lieut. U. S. N., Westinghouse Mch. Co.
 Sullivan, J. L. (Jr.), Rate Setter, Westinghouse Elec. & Mfg. Co.
 Swallow, H. J. (Jr.), Rate Dept., Westinghouse Elec. & Mfg. Co.
 Taylor, A., Mgr. Wks., Westinghouse Elec. & Mfg. Co.
 Wieber, G. A. (Jr.), Engrg. Apprentice, Westinghouse Mch. Co.
 Worker, J. G., Mgr. Stoker Div., Westinghouse Elec. & Mfg. Co.

Easton.—Almquist, K., M. E., 523 High St.

Brown, G. S., Second V. P., Alpha Portland Cement Co.
 Dunn, W. R., Wks. Mgr., Vulcanite Portland Cement Co.
 Farrell, W. E., Pres., Easton Car & Constr. Co., Pres., Am. Die & Tool
 Wks., Reading.
 Firmstone, F.
 Jackson, C. J., 30 S. 5th St.
 Magee, J. F. (Jr.), Engrg. Dept., Alpha Portland Cement Co.
 Neave, A. A., Genl. Mgr., Treadwell Engrg. Co.
 Stoop, W. J., 130 Parker Ave.
 Tydeman, W. A. (Jr.), Secy., Macan Jr. Co.
 Warren, R. H., Economy Engr., Alpha Portland Cement Co.

Eddystone.—Albrecht, O., M. E., Tindel Morris Co.

Harrington, N. T., Supt., Remington Arms Co.
 Pattison, H., Supt. Inspec., Remington Arms Co.

Ellwood City, Lawrence Co.—Smith, H. W. (Jr.), Ch. Engr., Stand.
 Eng. Co.

Stiefel, R. C., M. E.

Erie.—Armstrong, E. J., Engr., Ball Eng. Co.

Behrend, E. R., Pres., Genl. Mgr., Hammermill Paper Co.
 Carew, C. J., Genl. Supt., Skinner Eng. Co.
 Conrader, R., 708 Parade St.
 Conrath, G. B., Genl. Mgr., Nagle Corliss Eng. Wks.
 Cummings, E. C., V. P., Mgr., Crawford-Cummings Co.
 Dougherty, J. H. (Jr.), Erie Pump & Equip. Co.
 Durban, T. E., Genl. Mgr., Erie City Iron Wks.
 Ferrari, C., M. E., Erie City Iron Wks.
 Gardiner, W. B., Production Engr., 418 W. 11th St.
 Hooper, C. S., Secy., Union Iron Wks.
 Jarecki, A., Secy., Jarecki Mfg. Co.
 Kessler, A. G. (Jr.), Mgr., Lakeside Forge Co.
 Langlotz, R., Hammermill Paper Co.
 Oatman, P. B. (Jr.), Mgr. Small Tools, Modern Tool Co.
 Pell, H. S., Ch. Engr. Water Tube Wks., Erie City Iron Wks.
 Skinner, A. D., V. P., Skinner Eng. Co.
 Smith, M. E. (Jr.), Draftsman, Erie City Iron Wks.
 Spalding, C. M., 822 Plum St.
 Stevens, R. C., Ch. Engr., Skinner Eng. Co.
 Wadsworth, J. F. (Jr.), Asso., Richard Irvin & Co.
 Westcott, H. P., Engr. Natural Gas Constr. Wk., Metric Metal Wks.
 Wright, R. P., Secy., Treas., Reed Mfg. Co.

Farrell.—Short, S., Asst. to Mgr. Mercer Wks., Am. Sheet & Tin Plate Co.**Franklin.**—Callan, W. H., Mgr. Compressor Plant, Chicago Pneu. Tool Co.

Grieves, E. W., Mech. Expt., Galena-Signal Oil Co.
 Griffin, M. E., Designing Engr., Chicago Pneu. Tool Co.

PENNSYLVANIA, Franklin (Continued).

Haskell, B., Miller Park.

Hughes, H. M. (Jr.), M. E., Franklin Steel Wks.

Sherwood, M. W., Mgr. Plant No. 2, Chicago Pneu. Tool Co.

Fullerton.—Stubblebine, W. A., Engr., Lehigh Fdy. Co.**Galeton.**—Darlow, A. M. (Jr.), Supt. M. P., Buffalo & Susquehanna R. R.**Greensburg.**—Hansen, A., Ch. Draftsman, Kelly & Jones Co.

Hutchinson, G. W., Ch. Engr., Keystone Coal & Coke Co.

Johnson, F. E., Supt., Kelly & Jones Co.

Greenville.—Utley, J. C. (Jr.), Draftsman M. of W. Dept., Bessemer & Lake Erie R. R. Co.**Gwynedd Valley.**—Cathcart, W. L., Cons. Engr.**Hanover.**—Zouck, G. H. (Jr.), 314 York St.**Harrisburg.**—Allen, B. T., Ch. Engr., Harrisburg Fdy. & Mch. Wks.

Fisk, G. L., Ch. Engr., Central Iron & Steel Co.

Jackson, J. P., Pa. Commr. Labor and Industry, Dean Sch. of Engrg., Pa. State College, State College.

Pennock, R. M., M. E., Pa. Dept. of Labor and Industry.

Schaup, C. E., Cons. Engr., 304 Commonwealth Trust Bldg.

Hazleton.—Butler, N. R., Asst. to Mgr., Jeanesville Iron Wks. Co.

Jennings, A. B., V. P., Mgr., Jeanesville Iron Wks. Co.

Holidaysburg.—Kirk, W. F., Mgr., McLanahan-Stone Mch. Co.**Holtwood.**—Bauhan, A. E. (Jr.), Sta. Supt., Pa. Water & Power Co.**Homor City.**—Wallace, E. V. D. (Jr.), Genl. Supt., Prairie State Incubator Co.**Homestead.**—Owesen, H. (Jr.), Carnegie Steel Co.**Johnstown.**—Bosler, B. E., Asst. Supt. Mch. Dept. Shops, Cambria Steel Co.

Clarke, C. E. (Jr.), M. M. Steel Plant and Mills Cambria Wks., Cambria Steel Co.

Clarke, E. W., Ch. Engr., Cambria Steel Co.

Danner, E. C. (Jr.), Cambria Steel Co.

Geer, J. H., Engr. Constr., Cambria Steel Co.

Gocher, J. W., Cons. Engr., Cambria Steel Co.

Herbert, J. S., 223 Main St.

Humbach, K. E., Estimating Engr., Cambria Steel Co.

Morgan, J., Cons. Engr., 408 Tioga St., Westmont.

Morrissey, P. J., Genl. Mgr., Citizens Light, Heat & Power Co. of Pa.

Nolan, M. W., Asst. Steam Engr., Cambria Steel Co.

Symons, J. V., M. M., Blast Furnaces and Mills, Cambria Dept., Cambria Steel Co.

Webster, W. R., Ch. Draftsman, Cambria Steel Co.

Wilson, T. B., Steam Engrg. Dept., Cambria Steel Co.

Young, E. J. (Jr.), Foreman Elec. Repair Shop, Cambria Steel Co.

Lancaster.—Fletcher, F., 602 W. Walnut St.

Fraim, S. R., Secy., M. E., E. T. Fraim Lock Co.

Vandergrift, J. W., V. P., So. Pipe Line Co.

Lansford.—Whildin, W. G., Supt. Inside Div., Lehigh Coal & Navigation Co.**Latrobe.**—Eckfeldt, J. J., M. E., Ry. Steel Spring Co.**Lebanon.**—Crowell, W. J., Jr., Ch. Chem., Am. Iron & Steel Mfg. Co.

Sar Vant, W. N., M. E., Hunsicker Engrg. Co.

von Bayer, A. H., Supt., Semet-Solvay Co.

PENNSYLVANIA (Continued).

- Leetsdale.**—Carpenter, H. A., V. P., Riter-Conley Mfg. Co.
South, F., Jr. (Jr.), Charge Cost Dept., Riter-Conley Mfg. Co.
- Lewisburg.**—Burpee, F. E., Prof. M. E., Bucknell Univ.
- McKeesport.**—Hoerr, A. L., Steam and Hyd. Engr., Natl. Tube Co.
Leahy, F. E. (Jr.), Asst. Steam and Hyd. Engr., Natl. Tube Co.
McCulloch, J. A., Engr., Galvanizing Plant, Natl. Tube Co.
Saunders, A. M., Supt., Natl. Tube Co.
Snyder, G. T., M. E., Natl. Tube Co.
Wilson, J. W., Supt. Lower Depts., Natl. Tube Co.
- Meadville.**—Watson, R. B., Engr. Tests, Erie R. R.
- Mechanicsburg.**—Thornton, W. F., R. R. 2.
- Media.**—Wood, W. H., Engr., Bldr. Spec. Mch., 10 South Ave.
- Middletown.**—King, G. I., 114 N. Union St.
- Milton.**—Miles, F. H. (Jr.), M. E., Milton Mfg. Co.
- Monessen.**—Wikstrom, M. U., Genl. Supt., Pittsburgh Steel Products Co.
- Munhall.**—Parsons, W. C. (Jr.), Blast Furnace Draftsman, Carnegie Steel Co.
- Natrona.**—Walton, M. R. (Jr.), Wks. Engr., Pa. Salt Mfg. Co.
- Nazareth.**—Brobston, J., Mgr., Dexter Portland Cement Co.
Fortuin, M., Wks. Mgr., Pa. Cement Co.
Louder, J. W., Supt., Nazareth Cement Co.
Miller, J. A., Pres., Dexter Portland Cement Co., Pres., Clinchfield Portland Cement Co.
Tait, E. H., Supt., Phoenix Portland Cement Co.
Wolfe, E. A., Supt., Penn-Allen Cement Co.
- New Kensington.**—Ferry, R. M. (Jr.), U. S. Aluminum Co.
- Oakmont.**—Duden, E. G. (Jr.), Ch. Engr., W. B. Scaife & Sons Co.
- Oil City.**—Coffman, J. P., Genl. Supt., Natl. Transit Co. Shops.
Gnade, E. R., Wks. Mgr., Oil Well Supply Co.
Howard, C. D., Draftsman, Natl. Transit Co. Shops.
Luckenbach, O. F., Supt. Genl. Mfg. Dept., Oil Well Supply Co.
Newton, N. A., Sales and Cons. Engr., Natl. Transit Co.
Platt, W. O., V. P., Supt., Jos. Reid Gas Eng. Co.
Reid, J., Pres., Joseph Reid Gas Eng. Co.
Sachs, D. M., V. P., Genl. Mgr., No. Pipe Line Co.
Weymouth, T. R., Ch. Engr., United Natural Gas Co.
White, G. H., Supt., Oil City Boiler Wks.
- Parkesburg.**—Beale, H. A., Jr., Pres., Parkesburg Iron Co.
- Pencoyd.**—Hoffmann, J. E. (Jr.), M. E. Testing Dept., Am. Bridge Co.,
Pencoyd Iron Wks.
- Philadelphn.**—Allison, J. F. (Jr.), M. E. Dept., Univ. of Pa.
Annis, L. F., Constr. Supt., Southwark Fdy. & Mch. Co.
Arnaiz, W. P., M. E., Ch. Design and Drafting, Am. Pulley Co.
Atterbury, W. W., V. P. Charge Operation, Pa. R. R. Co.
Bailey, W. J. (Jr.), M. E., United Coal Co.
Ballinger, W. F., Mem. of Firm, Ballinger & Perrot.
Baneroff, J. S., Genl. Mgr., M. E., Lanston Monotype Mch. Co.
Baneroff, W., Sales Mgr., Lanston Monotype Mch. Co.
Barba, W. P., Genl. Mgr., Midvale Steel Co.
Bark, E., Instr. M. E., Univ. of Pa.
Barth, C. G., Senior Mem., Carl G. Barth & Son.
Bassett, R. M., Dist. Mgr., Murphy Iron Wks.
Behney, C. C., M. E., Simplex Valve & Meter Co.

PENNSYLVANIA, Philadelphia (Continued).

- Benner, H. L. (Jr.), Pres., Genl. Mgr., Benner Mfg. Co.
 Bergey, J. E., Leadingman Draftsman Mch. Div., Navy Yard.
 Bilgram, H., Machinist, 1235 Spring Garden St.
 Black, E. N., 3d, Asst. Engr., William H. Timm, Cons. Engr., 304 Abbott Bldg.
 Blatchley, C. A., M. E., 1052 Drexel Bldg.
 Bonine, Q. E., Cons. Engr., 609 Harrison Bldg.
 Borden, J. M. (Jr.), Estimator, John Borden & Bros.
 Borden, M. M., M. E., Simplex Valve & Meter Co.
 Bossinger, E. L., Asst. to Ch. Engr., Midvale Steel Co., Nicetown.
 Breneman, P. E. (Jr.), Ch. Draftsman Eng. Dept., E. G. Budd Mfg. Co.
 Bright, F. E., Pres., Hess-Bright Mfg. Co.
 Bright, H. De H., Pres., Southwark Fdy. & Mch. Co.
 Brinley, C. E., V. P., Mgr., Am. Pulley Co.
 Brown, A. M. (Jr.), Chicago Pneu. Tool Co.
 Brown, R. P. (Jr.), Pres., Brown Instrument Co.
 Bruegel, A. T., Secy., Hess-Bright Mfg. Co.
 Bruff, C. L., Combustion Engr., United Gas Improvement Co.
 Budd, E. G., Pres., Edward G. Budd Mfg. Co.
 Buerger, C. B., Cons. Engr., Atlantic Refining Co.
 Burnham, W., Pres., Treas., Stand. Steel Wks. Co.
 Burroughs, J. H., Jr., 1026 Spruce St.
 Cadwallader, H., Jr., Efficiency Engr., 38 N. St. Bernard St.
 Carter, E. B., Ch. Engr., Midvale Steel Wks.
 Champion, H. W., Pres., Newton Mch. Tool Wks., Inc.
 Chance, T. M. (Jr.), Min. Engr. with H. M. Chance as Asst. in Genl. Cons. Practice, 837 Drexel Bldg.
 Child, S. G., Foreman Mch. Shop, Baldwin Loco. Wks.
 Clark, W., Second V. P., United Gas Improvement Co.
 Clarke, W. J., Philadelphia Mgr., L. Sonneborn Sons, Inc.
 Clouser, G. L. (Jr.), Draftsman, Baldwin Loco. Wks.
 Coleman, R. J. (Jr.), Mgr., Ames Iron Wks.
 Colpitts, J. V. (Jr.), Power Plant Equip., 27 S. 18th St.
 Converse, B. T., Engr. of Plant, Baldwin Loco. Wks.
 Cooke, M. L., Cons. Engr. in Management, Acting Dir., Utilities Bureau.
 Crofoot, G. E., Instr. M. E., Univ. of Pa.
 Dallett, E., M. E., Midvale Steel Co.
 Dallett, W. P., Hyd. Engr., Contr., 49 N. 7th St.
 Daugherty, F. (Jr.), V. P., Scofield Engrg. Co.
 Dawes, R., V. P., Supt., Haskell, Dawes Mch. Co.
 Day, C., Mem. of Firm, Day & Zimmermann.
 Dill, T. C., Pres., Genl. Mgr., T. C. Dill Mch. Co., Inc.
 Dinkey, A. C., Pres., Midvale Steel Co., Pres., Worth Bros. Co., V. P., Midvale Steel & Ordnance Co.
 Dodge, A., Mem. of Firm, Shore & Dodge.
 Dodge, K., Cons. Engr., 1421 Chestnut St.
 D'Olier, W. L., Pres., D'Olier Centrifugal Pump & Mch. Co.
 Douglas, E. R., Cons. Engr.
 Douglas, M. D. (Jr.), Salesman, Midvale Steel Co., Nicetown.
 Easby, F. H., 3316 Powelton Ave.
 Eglin, W. C. L., Second V. P., Ch. Engr., Philadelphia Elec. Co.
 Ehlers, H. E., Prof. Exper. Engrg., Univ. of Pa., Asst. Ch. Engrg. Bureau, Pub. Serv. Com. of Pa.
 Ehlers, P., Ch. Engr., Wm. I. McCahari Sugar Refining Co.
 Elliot, A. H., Rep., Am. Brake Shoe & Fdy. Co.
 Esherick, G., Jr. (Jr.), Test Engr., Am. Engrg. Co.
 Esherick, J. (Jr.), M. E., Yarnall-Waring Co., Chestnut Hill.

PENNSYLVANIA, Philadelphia (Continued).

- Eynon, T. M., Pres., Eynon-Evans Mfg. Co.
 Farr, R. S. (Jr.), Instr. Drawing and Design, Univ. of Pa.
 Felix, S. P., Sales Mgr., Dravo Doyle Co.
 Felton, E. C., Pres., Pa. Steel Co.
 Fernald, R. H., Whitney Prof. Dynamical Engrg., Univ. of Pa., Cons. Engr.,
 U. S. Bureau of Mines.
 Firth, W. E., Safety Engr., Midvale Steel Co.
 Fischer, A. K., Pres., Schutte & Koerting Co.
 Fislser, A. C. (Jr.), Designing Engr., Simplex Valve & Meter Co.
 Flagg, S. G., Jr., S. G. Flagg & Co.
 Fleckenstein, H., Engr., Hindley Gear Co.
 Flippen, J. P., Ch. Engr., C. H. Wheeler Mfg. Co.
 Ford, B., Fourth V. P., Elec. Storage Battery Co.
 Francis, I. H., Cons. Engr., 1508 Commonwealth Trust Bldg.
 Francis, W. H., Union League.
 Freeman, F. C. (Jr.), United Gas Improvement Co.
 Frick, J., M. E., Supt. Mchy. Dept., Horn & Hardart Baking Co.
 Fuller, A. J., Supt., Bureau of Water.
 Fuller, W. D., Mgr. Acctg. Dept., Curtis Publishing Co.
 Fulweiler, J. E., M. E., 4335 Chestnut St.
 Galloway, C. D., Asst. to Factory Engr., Elec. Storage Battery Co.
 Ganster, J. A., Asst. Supt., Stand. Roller Bearing Co.
 Gibson, J. E., Prin. Asst. Engr., Am. Pipe & Constr. Co.
 Giele, W. S. (Jr.), Harrison Safety Boiler Wks.
 Gillam, W. H., Jr. (Jr.), Supt., Jas. Boyd & Bros., Inc.
 Gilmer, G. W., Jr., Mfr., 52 N. 7th St.
 Godfrey, Dr. H., Pres., Drexel Inst., Cons. Engr., 32d and Chestnut Sts.
 Goetz, V. J., Refrig. Engr., Contr. Rep., Brunswick Refrig. Co.
 Good, P. E., M. E., Southwark Fdy. & Mch. Co.
 Graf, J. C. (Jr.), Engr., Southwark Fdy. & Mch. Co.
 Grant, A. W., Jr. (Jr.), Photometrical Dept., United Gas Improvement Co.
 Gray, J. W. (Jr.), Asst. to Genl. Mgr., Newport News Shipbuilding & Dry
 Dock Co.
 Green, T. W., M. E., 2016 E. Ontario St.
 Hagemann, G. E. (Jr.), Instr. M. E., Univ. of Pa.
 Hagman, W. J., Genl. Mgr., Bement-Miles Wks.
 Hagy, J. L. (Jr.), 1722 N. 16th St.
 Hahn, C. V. (Jr.), Instr. Engrg., Univ. of Pa. and Temple Univ.
 Hand, F. L., 1948 N. 18th St.
 Hanks, H. M., Supt. Inspc., Stand. Roller Bearing Co.
 Hansell, W. H., Pres., Smith & Hansell, Inc., Philadelphia Iron Fdy.
 Harding, J. M. (Jr.), Philadelphia Rep., De La Vergne Mch. Co.
 Harman, W. H., Southwark Fdy. & Mch. Co.
 Harris, W. B. (Jr.), Midvale Steel Co.
 Hathaway, H. K., Cons. Engr., 1740 Hamilton St.
 Hawkins, E. H. (Jr.), M. E., Allis-Chalmers Mfg. Co.
 Head, F., 1500 Locust St.
 Heilmann, C. A. (Jr.), Engrg. Rep., Am. Radiator Co.
 Henderson, G. R., Cons. Engr., 1321 Walnut St.
 Henry, F. G., Ch. Engr., Burkhart Corp.
 Hess, H., 928 Witherspoon Bldg.
 Hickman, C. D., Cons. Engr., 1414 S. Penn Sq.
 Hicks, W. A. B., Ch. Draftsman, I. P. Morris Co.
 Hiller, J. L., Ch. Engr., Pa. Crusher Co.
 Hilyard, L. R. (Jr.), Student Salesman, Internatl. Steam Pump Co.
 Hoopes, C. R., Pres., Hoopes & Townsend Co.

PENNSYLVANIA, Philadelphia (Continued).

- Schaeffer, C. F., Prop., Mgr., Schaeffer Mch. Wks.
 Schaum, O. W., Pres., Schaum & Uhlinger, Inc., Pres., Atlas Ball Co.
 Schedin, P. H., Ch. Draftsman, Midvale Steel Co., Nicetown.
 Schultz, J. L., Mech. and Designing Engr., Am. Engrg. Co.
 Sellers, C. Jr., Pres., Engr., Wm. Sellers & Co., Inc.
 Shaw, A. D., 611 W. Upsal St., Germantown.
 Shaw, J. C., Turbine Engr., Wm. Cramp Ship & Eng. Bldg. Co.
 Shelmire, W. H., Jr., 69th and Launton Ave., Oak Lane.
 Sibson, H. E. (Jr.), M. E., Harrison Safety Boiler Wks.
 Sinclair, G. M., Cons. Engr., 618 Chestnut St.
 Skewis, E. G., Erecting Engr., C. H. Wheeler Mfg. Co.
 Spackman, H. S., Pres., Henry S. Spackman Engrg. Co.
 Stanford, J. V., Prof. M. E., Univ. of Pa.
 Steinmetz, J. A., Mem. of Firm, Janney, Steinmetz & Co.
 Stem, F. B., M. E., Day & Zimmermann.
 Stevenson, A. A., V. P., Stand. Steel Wks. Co.
 Stirling, A., Drexel Bldg.
 Strachan, J. E., Rep., Midvale Steel Co.
 Strobel, V. O., Genl. Mgr. Crane Dept., Niles-Bement-Pond Co.
 Strouse, S. B. (Jr.), Engr., Mem. of Firm, Pa. Engrg. Co.
 Sutton, G. Z., Asst. Treas., Asst. Secy., Stokes & Smith Co., Summerdale Sta.
 Tabor, L., Tabor Mfg. Co.
 Taylor, F. H., Pres., S. S. White Dental Mfg. Co.
 Taylor, H. B., Hyd Engr., I. P. Morris Co.
 Thorne, W. H., Engr., Wm. Sellers & Co.
 Toner, E. J., Jr. (Jr.), Draftsman, Link-Belt Co.
 Townsend, D., Mech. and Cons. Engr., 1716 Spring Garden St.
 de Trampe, J. A., C. L., 1703 Spruce St.
 Truitt, R. M., Genl. Mgr., F. J. Stokes Mch. Co.
 Turnbull, W. F., Instr. Mech. Drawing and Design, Univ. of Pa.
 Twining, W. S., 119 Harvey St., Germantown.
 Valentine, L. R. (Jr.), 1416 Thompson St.
 Valtier, F. V., M. E., Goetz Co.
 Van Duzee, H. (Jr.), Cons. Engr., 427 Walnut St.
 Vauclair, A. C., V. P., Southwark Fdy. & Mch. Co.
 Vauclair, S. M., V. P., Baldwin Loco. Wks.
 Wait, W. B. (Jr.), Asst. Engr., Spreckels Sugar Refining Co.
 Walsh, W. J., Plant Supt., Fayette R. Plumb, Inc., Bridesburg.
 Walton, A., Factory Economist, Mfg. Acct., 133 S. 12th St.
 Watson, J. E. (Jr.), Draftsman, Am. Pulley Co.
 Webster, W. R., Cons. and Inspc. Engr., 411 Walnut St.
 Wells, W. H., Supt., M. E., George W. Blabon Linoleum Co., Nicetown.
 Werst, C. W., 5618 Baltimore Ave.
 Wharen, G. B., Instr. Exper. Engrg., Towne Scientific Sch., Univ. of Pa.
 Wheatley, G. S. (Jr.), Instr. M. E., Univ. of Pa.
 Wheeler, C. H., V. P., Genl. Mgr., C. H. Wheeler Mfg. Co.
 White, H. J., 1211 Harrison St., Frankford.
 Whitham, J. M., Cons. Engr., 607 Bullitt Bldg.
 Wille, H. V., Asst. Genl. Supt., Baldwin Loco. Wks., Cons. Metallurgist,
 Remington Arms Co. of Del. and Eddystone Ammunition Corp.
 Williamson, W. C., Valley Rd. and 12th St., Oak Lane.
 Wolf, O. C., Engr., Arch., 511-512 Denekla Bldg.
 Wood, A. C., Cons. M. E., Pa. Bldg.
 Wood, E. R., Jr. (Jr.), Sales Mgr., R. D. Wood & Co.
 Wood, G. R., E. and M. E., Berwind-White Coal Min. Co.
 Wood, W., R. D. Wood & Co.

PENNSYLVANIA, Philadelphia (Continued).

- Yarnall, D. R., M. E., Yarnall-Waring Co., Genl. Mgr., V. P., Nelson Valve Co., Chestnut Hill.
- Yewdall, F. M., M. E., Wm. Steele & Sons Co.
- Zimmermann, J. E. (Jr.), Mem. of Firm, Day & Zimmermann.
- Phoenixville.**—Shedd, T. C. (Jr.), Draftsman, Phoenix Bridge Co.
- Pittcairn.**—Swope, B. M. (Jr.), M. P. Inspr. Pittsburgh Div., Pa. R. R.
- Pittsburgh.**—Albree, C. B., Pres., Ch. Engr., Chester B. Albree Iron Wks. Co.
- Allen, H., Dev. Engr., Pressed Steel Car Co., West. Steel Car & Fdy. Co.
- Ambrose, R. B. (Jr.), Instr. Stationary Engrg., Carnegie Inst. of Tech.
- Amsler, W. O. (Jr.), Contr. Engr., Wabash Bldg.
- Angstrom, C. J., Mackintosh, Hemphill & Co.
- Ayers, H. B., Genl. Mgr., H. K. Porter Co.
- Bacharach, H., M. E., Rm. 1009, 14 Wood St.
- Backlin, A. F., Constr. Engr., Am. Steel & Wire Co.
- Badowski, A. (Jr.), Estimator, Pressed Steel Car Co.
- Baggaley, R., Pres., Am. Pyritic-Conversion Co.
- Baltzell, W. H., Cons. Engr., 13th and Aetna Sts.
- Barbour, G. H., Asst. Ch. M. E., Carnegie Steel Co.
- Barrett, J. H., Genl. Mgr., Stand. Steel Tank & Mfg. Co.
- Barton, C. R. (Jr.), Ch. Inspr., Kennedy-Stroh Corp.
- Beers, R. L., Asst. Fuel Engr., U. S. Bureau of Mines.
- Bennett, C. W., Asst. to Pres., Am. Sheet & Tin Plate Co.
- Bentley, E. W., Pittsburgh Mgr., Skinner Eng. Co.
- Berg, J. D., V. P., Dravo-Doyle Co.
- Biggert, F. C., Jr., Ch. Engr., United Engrg. & Fdy. Co.
- Bleyer, C. F. (Jr.), Erecting Engr., Allis-Chalmers Mfg. Co.
- Bole, W. A., V. P., Charge of Mfr., Westinghouse Mch. Co., East Pittsburgh.
- Bourne, P. P., Ch. Engr., Epping Carpenter Pump Co.
- Bowman, F. M., V. P., Blaw Steel Constr. Co.
- Boyd, W. C., Asst. Engr., Pittsburgh Rys. Co.
- Boyle, W. G., Mech. Supt., Engr., Estate of Henry W. Oliver, 232 Oliver Bldg.
- Bradshaw, G. D., Pres., Andrews-Bradshaw Co.
- Brashear, J. A., Mfr., Astronomical and Physical Instruments, 1954-1964
Perryville Ave., N. S.
- Brennan, J. (Jr.), Ch. Engr., Crucible Steel Co. of Am.
- Breslove, J., Sales Engr., Allis-Chalmers Mfg. Co.
- Brown, C. M., Genl. Sales Agt., Colonial Steel Co.
- Butler, W. A., Asst. Supt. Power Stas., Duquesne Light Co.
- Cade, C. W., Mgr., McKinney Mfg. Co.
- Chandler, S. M. (Jr.), Pres., Chandler-Boyd Supply Co.
- Chester, J. N., Chester & Fleming.
- Clapp, G. H., cor. 7th and Bedford Aves.
- Coffin, W. C., Struc. Engr., Jones & Laughlin Steel Co.
- Corey, F. B., Cons. Engr., 404 Arrott Bldg.
- Cornelius, H. R., Sales Engr., Mesta Mch. Co.
- Crane, F. L. (Jr.), West Penn Traction Co.
- Crawford, D. F., Genl. Supt. M. P., Pa. Lines.
- Diescher, S. E., Cons. M. and C. E., 2410 Farmers Bank Bldg.
- Dreyfus, E. D., West Penn Traction & Water Power Co.
- Eisenhart, H. W., Sales Agt., Bethlehem Steel Co.
- Elliott, W. S., Pres., Elliott Co.
- Ellis, F. I., 5817 Callowhill St., E. E.
- Ely, S. B., V. P., Chester B. Albree Iron Wks. Co.
- Endsley, L. E., Prof. Ry. M. E., Univ. of Pittsburgh.
- Fawcus, T., Pres., Fawcus Mch. Co.

PENNSYLVANIA, Philadelphia (Continued).

- Schaeffer, C. F., Prop., Mgr., Schaeffer Mch. Wks.
 Schaum, O. W., Pres., Schaum & Uhlinger, Inc., Pres., Atlas Ball Co.
 Schedin, P. H., Ch. Draftsman, Midvale Steel Co., Nicetown.
 Schultz, J. L., Mech. and Designing Engr., Am. Engrg. Co.
 Sellers, C. Jr., Pres., Engr., Wm. Sellers & Co., Inc.
 Shaw, A. D., 611 W. Upsal St., Germantown.
 Shaw, J. C., Turbine Engr., Wm. Cramp Ship & Eng. Bldg. Co.
 Shelmire, W. H., Jr., 69th and Launton Ave., Oak Lane.
 Sibson, H. E. (Jr.), M. E., Harrison Safety Boiler Wks.
 Sinclair, G. M., Cons. Engr., 618 Chestnut St.
 Skewis, E. G., Erecting Engr., C. H. Wheeler Mfg. Co.
 Spackman, H. S., Pres., Henry S. Spackman Engrg. Co.
 Stanford, J. V., Prof. M. E., Univ. of Pa.
 Steinmetz, J. A., Mem. of Firm, Janney, Steinmetz & Co.
 Stem, F. B., M. E., Day & Zimmermann.
 Stevenson, A. A., V. P., Stand. Steel Wks. Co.
 Stirling, A., Drexel Bldg.
 Strachan, J. E., Rep., Midvale Steel Co.
 Strobel, V. O., Genl. Mgr. Crane Dept., Niles-Bement-Pond Co.
 Strouse, S. B. (Jr.), Engr., Mem. of Firm, Pa. Engrg. Co.
 Sutton, G. Z., Asst. Treas., Asst. Secy., Stokes & Smith Co., Summerdale Sta.
 Tabor, L., Tabor Mfg. Co.
 Taylor, F. H., Pres., S. S. White Dental Mfg. Co.
 Taylor, H. B., Hyd Engr., I. P. Morris Co.
 Thorne, W. H., Engr., Wm. Sellers & Co.
 Toner, E. J., Jr. (Jr.), Draftsman, Link-Belt Co.
 Townsend, D., Mech. and Cons. Engr., 1716 Spring Garden St.
 de Trampe, J. A., C. L., 1703 Spruce St.
 Truitt, R. M., Genl. Mgr., F. J. Stokes Mch. Co.
 Turnbull, W. F., Instr. Mech. Drawing and Design, Univ. of Pa.
 Twining, W. S., 119 Harvey St., Germantown.
 Valentine, L. R. (Jr.), 1416 Thompson St.
 Valtier, F. V., M. E., Goetz Co.
 Van Duzee, H. (Jr.), Cons. Engr., 427 Walnut St.
 Vauclain, A. C., V. P., Southwark Fdy. & Mch. Co.
 Vauclain, S. M., V. P., Baldwin Loco. Wks.
 Wait, W. B. (Jr.), Asst. Engr., Spreckels Sugar Refining Co.
 Walsh, W. J., Plant Supt., Fayette R. Plumb, Inc., Bridesburg.
 Walton, A., Factory Economist, Mfg. Acct., 133 S. 12th St.
 Watson, J. E. (Jr.), Draftsman, Am. Pulley Co.
 Webster, W. R., Cons. and Inspc. Engr., 411 Walnut St.
 Wells, W. H., Supt., M. E., George W. Blabon Linoleum Co., Nicetown.
 Werst, C. W., 5618 Baltimore Ave.
 Wharen, G. B., Instr. Exper. Engrg., Towne Scientific Sch., Univ. of Pa.
 Wheatley, G. S. (Jr.), Instr. M. E., Univ. of Pa.
 Wheeler, C. H., V. P., Genl. Mgr., C. H. Wheeler Mfg. Co.
 White, H. J., 1211 Harrison St., Frankford.
 Whitham, J. M., Cons. Engr., 607 Bullitt Bldg.
 Wille, H. V., Asst. Genl. Supt., Baldwin Loco. Wks., Cons. Metallurgist,
 Remington Arms Co. of Del. and Eddystone Ammunition Corp.
 Williamson, W. C., Valley Rd. and 12th St., Oak Lane.
 Wolf, O. C., Engr., Arch., 511-512 Denckla Bldg.
 Wood, A. C., Cons. M. E., Pa. Bldg.
 Wood, E. R., Jr. (Jr.), Sales Mgr., R. D. Wood & Co.
 Wood, G. R., E. and M. E., Berwind-White Coal Min. Co.
 Wood, W., R. D. Wood & Co.

PENNSYLVANIA, Philadelphia (Continued).

- Yarnall, D. R., M. E., Yarnall-Waring Co., Genl. Mgr., V. P., Nelson Valve Co., Chestnut Hill.
- Yewdall, F. M., M. E., Wm. Steele & Sons Co.
- Zimmermann, J. E. (Jr.), Mem. of Firm, Day & Zimmermann.
- Phoenixville.**—Shedd, T. C. (Jr.), Draftsman, Phoenix Bridge Co.
- Pitcairn.**—Swope, B. M. (Jr.), M. P. Inspr. Pittsburgh Div., Pa. R. R.
- Pittsburgh.**—Albree, C. B., Pres., Ch. Engr., Chester B. Albree Iron Wks. Co.
- Allen, H., Dev. Engr., Pressed Steel Car Co., West. Steel Car & Fdy. Co.
- Ambrose, R. B. (Jr.), Instr. Stationary Engrg., Carnegie Inst. of Tech.
- Amsler, W. O. (Jr.), Contr. Engr., Wabash Bldg.
- Angstrom, C. J., Mackintosh, Hemphill & Co.
- Ayers, H. B., Genl. Mgr., H. K. Porter Co.
- Bacharach, H., M. E., Rm. 1009, 14 Wood St.
- Backlin, A. F., Constr. Engr., Am. Steel & Wire Co.
- Badowski, A. (Jr.), Estimator, Pressed Steel Car Co.
- Baggaley, R., Pres., Am. Pyritic-Conversion Co.
- Baltzell, W. H., Cons. Engr., 13th and Aetna Sts.
- Barbour, G. II., Asst. Ch. M. E., Carnegie Steel Co.
- Barrett, J. H., Genl. Mgr., Stand. Steel Tank & Mfg. Co.
- Barton, C. R. (Jr.), Ch. Inspr., Kennedy-Stroh Corp.
- Beers, R. L., Asst. Fuel Engr., U. S. Bureau of Mines.
- Bennett, C. W., Asst. to Pres., Am. Sheet & Tin Plate Co.
- Bentley, E. W., Pittsburgh Mgr., Skinner Eng. Co.
- Berg, J. D., V. P., Dravo-Doyle Co.
- Biggart, F. C., Jr., Ch. Engr., United Engrg. & Fdy. Co.
- Bleyer, C. F. (Jr.), Erecting Engr., Allis-Chalmers Mfg. Co.
- Bole, W. A., V. P., Charge of Mfr., Westinghouse Meh. Co., East Pittsburgh.
- Bourne, P. P., Ch. Engr., Epping Carpenter Pump Co.
- Bowman, F. M., V. P., Blaw Steel Constr. Co.
- Boyd, W. C., Asst. Engr., Pittsburgh Rys. Co.
- Boyle, W. G., Mech. Supt., Engr., Estate of Henry W. Oliver, 232 Oliver Bldg.
- Bradshaw, G. D., Pres., Andrews-Bradshaw Co.
- Brashear, J. A., Mfr., Astronomical and Physical Instruments, 1954-1964
Perryville Ave., N. S.
- Brennan, J. (Jr.), Ch. Engr., Crucible Steel Co. of Am.
- Breslove, J., Sales Engr., Allis-Chalmers Mfg. Co.
- Brown, C. M., Genl. Sales Agt., Colonial Steel Co.
- Butler, W. A., Asst. Supt. Power Stas., Duquesne Light Co.
- Cade, C. W., Mgr., McKinney-Mfg. Co.
- Chandler, S. M. (Jr.), Pres., Chandler-Boyd Supply Co.
- Chester, J. N., Chester & Fleming.
- Clapp, G. H., cor. 7th and Bedford Aves.
- Coffin, W. C., Struc. Engr., Jones & Laughlin Steel Co.
- Corey, F. B., Cons. Engr., 404 Arrott Bldg.
- Cornelius, H. R., Sales Engr., Mesta Meh. Co.
- Crane, F. L. (Jr.), West Penn Traction Co.
- Crawford, D. F., Genl. Supt. M. P., Pa. Lines.
- Dieseher, S. E., Cons. M. and C. E., 2410 Farmers Bank Bldg.
- Dreyfus, E. D., West Penn Traction & Water Power Co.
- Eisenhart, H. W., Sales Agt., Bethlehem Steel Co.
- Elliott, W. S., Pres., Elliott Co.
- Ellis, F. I., 5817 Callowhill St., E. E.
- Ely, S. B., V. P., Chester B. Albree Iron Wks. Co.
- Endsley, L. E., Prof. Ry. M. E., Univ. of Pittsburgh.
- Fawcus, T., Pres., Fawcus Meh. Co.

PENNSYLVANIA, Pittsburgh (Continued).

- Fickes, E. S., Engr., Pur. Agt., Aluminum Co. of Am.
 Fischer, C. L., M. P. Insp., Pa. Lines W. of Pittsburgh.
 Fitzgerald, C., Mgr. Sales, Asst. Genl. Mgr., Pittsburgh Valve Fdy. & Constr. Co.
 Flagg, S. B. (Jr.), Engr., U. S. Bureau of Mines.
 Flickinger, H. W. (Jr.), 35 King Edward Apts., E. E.
 Flint, W. P., 5638 Margaretta St.
 Foller, C. S., Mgr. Sales., Union Spring & Mfg. Co.
 Fox, J. H., Ch. Engr., Pittsburgh Plate Glass Co.
 Frohrieb, L. C., Federal Engrg. Co.
 Gardner, K. C., Sales Engr., United Engrg. & Fdy. Co.
 Gillies, W. F., Mgr., Ingersoll-Rand Co.
 Grantier, L. V., Dist. M. P. Insp., B. & O. R. R.
 Graves, J. M., Supt. Power Stas., Duquesne Light Co.
 Guba, P. M. (Jr.), Salesman, Jones & Laughlin Steel Co.
 Haddock, E. J., Asst. Ch. Engr., Kennedy-Stroh Corp.
 Hammond, H. S., Sales Agt., Pressed Steel Car Co.
 Hermanson, T. H., Supt., Epping-Carpenter Co.
 Hibbard, R. L., Wks. Mgr., Riter-Conley Mfg. Co.
 Hiles, E. K., M. E., 2511 Oliver Bldg.
 Hindman, W. L., Supt., Duff Mfg. Co.
 Hobbs, J. C., Asst. to Supt. of Power Stas., Duquesne Light Co.
 Hodges, C. B. (Jr.), H. K. Porter & Co.'s Shop.
 Hood, O. P., Ch. M. E., U. S. Bureau of Mines.
 Howarth, H. A. S., with Albert Kingsbury, Cons. Engr.
 Hunter, J. A., Steam Engr., Am. Sheet & Tin Plate Co.
 Irvin, R., Arch., Engr., 308-309 Union Bank Bldg.
 Kaufman, E., Metallurgist on Steel, Farmers Bank Bldg.
 Kennedy, J., Cons. M. E., 1217 Bessemer Bldg.
 Kennedy, W., M. E., 714 Bessemer Bldg.
 Kingsbury, A., Cons. Engr., 219 Stratford Ave.
 Knowles, M., Cons. Engr., 2548 Oliver Bldg., Dir. Dept. of Sanitary Engrg., Univ. of Pittsburgh.
 Koch, F., M. E., Pressed Steel Car Co.
 Kohler, D. S., Genl. Supt., Oliver Iron & Steel Co.
 Kreisinger, H., Engr., U. S. Bureau of Mines.
 Ladd, G. T., Pres., George T. Ladd Co.
 Laughlin, A., Engr., Contr., Alex. Laughlin & Co:
 Laughlin, A., Jr. (Jr.), V. P., Central Tube Co.
 Lincoln, P. M., Genl. Engr., Westinghouse Elec. & Mfg. Co.
 Lindemuth, F. L., H. Koppers Co.
 Lindstrom, C. A., Asst. to Pres., Pressed Steel Car Co., West. Steel Car & Fdy. Co. of Chicago, Ill.
 McCarty, F. J. (Jr.), Designing Engr., Tate, Jones & Co., Inc.
 McClelland, E. S., Engr. Gas and Steam Eng., Westinghouse Mch. Co.
 McKean, R. A., Supt. Keystone Wks., Jones & Laughlin Steel Co.
 McMillen, A. K., Ch. Engr., Alex. Laughlin & Co.
 Maclean, M. R. (Jr.), Mgr. Sales, Miscellaneous Dept., Am. Steel Foundries.
 Mann, H. B. (Jr.), 1104 Diamond Bank Bldg.
 Maxfield, H. H., M. M., Pa. R. R. Co.
 Mesta, G., Pres., Mesta Mch. Co.
 Moore, H. L. (Jr.), Charge Office, Buffalo Forge Co.
 Moore, L. C., Cons. M. E., Lee C. Moore & Co.
 Moore, W. E., W. E. Moore & Co., Cons. Engr., West Penn Traction Properties.
 Moyer, A. V., M. E., George T. Ladd Co.
 Murphy, G. F., Charge Sales Office, Heine Safety Boiler Co.

PENNSYLVANIA, Pittsburgh (Continued).

- Newburn, T. W., Asst. Res. Engr., Southwestern Dist., Westinghouse Air Brake Co.
 Newman, M. F., Asst. Mgr. Water Purifying Dept. Wm. B. Scaife & Sons Co.
 Noble, R. E. (Jr.), Designing and M. E., Mesta Mch. Co.
 Ottesen, F., Ch. Engr. Gas Eng. Dept., Mesta Mch. Co.
 Patterson, P. C. (Jr.), Ch. Engr., Natl. Tube Co.
 Peterson, E. T., Ch. Draftsman Engrg. Dept., Am. Steel & Wire Co.
 Pinkerton, A., E. E., Am. Sheet & Tin Plate Co.
 Porterfield, H. A., Mgr., Dexter Oil Co.
 Quigley, J. E. (Jr.), Mgr. Insulation Dept., Armstrong Cork & Insulation Co.
 Rea, J. C. (Jr.), Supt. Rivet, Track, Bolt and Galvanizing Depts., Oliver Iron & Steel Co.
 Reed, V. A., Jr., Treas., Federal Engrg. Co.
 Robinson, J. R., Pres., Robinson Ventilating Co.
 Rose, D. (Jr.), Efficiency Engr. B. I. Power Sta., Duquesne Light Co.
 Ruud, E., Pres., Ruud Mfg. Co.
 Rust, W. F., Ch. Engr., H. Koppers Co.
 Schaake, W. (Jr.), Engr. Ry. Engrg. Dept., Westinghouse Elec. & Mfg. Co.
 Schreiber, J. W., M. E., Aluminum Co. of Am.
 Seaver, K., Ch. Engr., Asst. Genl. Sales Mgr., Harbison-Walker Refractories Co.
 Sewell, J. G. C. (Jr.), United Engrg. & Fdy. Co.
 Shields, W. D. (Jr.), Riter-Conley Mfg. Co.
 Shipley, G. B., Pres., Genl. Mgr., Pittsburgh Wood Preserving Co.
 Smith, C. C., Pres., Genl. Mgr., Union Steel Castings Co.
 Smith, C. D. (Jr.), Engr., U. S. Bureau of Mines.
 Snyder, W. E., M. E., Am. Steel & Wire Co.
 Stafford, B. E. D. (Jr.), Genl. Mgr., Flannery Bolt Co.
 Stewart, R. T., Prof. M. E., Univ. of Pittsburgh.
 Storer, N. W., Genl. Engr., Westinghouse Elec. & Mfg. Co.
 Straub, A. A. (Jr.), Steam Engr., Duquesne Light Co.
 Straub, T. A., V. P., Genl. Mgr., Fort Pitt Bridge Wks.
 Strom, C. A., Mgr., Am. Loco. Co.
 Stucki, A., Engr., Oliver Bldg.
 Stutz, C. C., care of H. P. Hobart, Mackintosh Hemphill & Co.
 Swarts, G. T., V. P., Ch. Engr., Steam Equip. Mfg. Co.
 Taber, G. H., Genl. Mgr., Gulf Refining Co.
 Tate, J. M., Jr., Pres., Tate, Jones & Co., Inc.
 Terry, C. D., Asst. to Genl. Supt., Natl. Tube Co.
 Todd, J., Pres., Ch. Engr., Sterling Varnish Co.
 Trinks, W., Prof. M. E., Carnegie Inst. of Tech.
 Wadsworth, F. L. O., Cons. Engr., Pres., Miller Non-Corrosive Metal Co.
 Warner, R. C., Prime Mover Div., Westinghouse Elec. & Mfg. Co.
 Waters, W. L., Designing Engr., Westinghouse Elec. & Mfg. Co.
 Wheeler, F. R., Dist. Mgr., Green Engrg. Co.
 Williams, A. G. (Jr.), 6941 Prospect St., Ben Avon.
 Williams, D. C., M. E., 664 Maryland Ave.
 Wilson, H. D., V. P., Wilson Snyder Mfg. Co.
 Wilson, N. C., M. E., Dollar Savings and Trust Bldg.

Pittston.—Hubbell, C. W., Arch. and Engr., 37 Fultou St.

Port Carbon.—Allison, R., M. E., Ret.

Pottstown.—Bennett, R. M. (Jr.), 335 High St.

Jones, D. T., Genl. Mgr., Treas., Wilbraham Green Blower Co.

Moore, E. A., Pres., Wilbraham Green Blower Co.

PENNSYLVANIA, Pottstown (Continued).

- Welchans, B. G., M. E., Charge Mfg. and Mch. Design, Stanley G. Flagg & Co.
- Pottsville.**—Hagerty, W. W. (Jr.), 614 Fairview St.
Leaman, C. H. (Jr.), Prop., Leaman Knitting Mill.
Lesser, W. H., M. E., Philadelphia & Reading Coal & Iron Co.
- Reading.**—Bell, J. M., M. E., Reading Iron Co.
Cahill, E. H., Engr., Am. Die & Tool Co.
Heizmann, L. J. (Jr.), V. P., Penn Hardware Co.
McCormack, L. J. (Jr.), Supt., Schuylkill Silk Mills.
Poole, E. J., Supt., Carpenter Steel Co.
Rahm, R. C., Ch. Draftsman, Textile Mch. Wks.
Schuhmann, G., V. P., Genl. Mgr., Reading Iron Co.
- Ridgeway.**—Norton, H. B., Ch. Engr., Elk Tanning Co.
- Rochester.**—Fry, H. S., Div. Supt., H. C. Fry Glass Co.
- Rook.**—Du Barry, E. G. (Jr.), Draftsman, Wabash Pittsburgh Terminal Ry. Co.
- Sayre.**—Gast, G. F. (Jr.), Res. Engr., Sayre Elec. Co.
- Scottdale.**—Strouse, A. F. (Jr.), H. C. Frick Coke Co.
- Scranton.**—Blair, G., Jr., Sales Engr., McClave-Brooks Co.
Clemens, A. B., Prin., Sch. M. E., Internatl. Corr. Schs.
Corbett, M. C. (Jr.), Spencer Heater Co.
Evans, C., Jr., Asst. Genl. Supt. Coal Dept., Del. & Hudson Co.
Foster, R. J., V. P., Internatl. Text Book Co., Managing Editor, Colliery Engineer.
Farnham, T. L., Scranton Pump Co.
Fuller, R. W., E. E., 1530 Wyoming Ave.
Harris, J. J., M. E., Bd. of Ed.
Manchester, H. C., Supt. M. P. and Equip., D. L. & W. R. R. Co.
Mattes, W. F., Ret., 1529 Sanderson Ave.
Van Valkenburgh, R. D., 511 Y. M. C. A.
Waddell, J. A., Jr., Genl. Supt., Spencer Heater Co.
Webber, H., M. E., Finch Mfg. Co.
- Shamokin.**—Mullen, J., Genl. Mgr., John Mullen & Son.
- Sharon.**—Acker, K. G. (Jr.), 468 E. State St.
Kranz, W. G., Mgr., Sharon, Pa., and Melrose Park, Ill., Wks., Natl. Malleable Castings Co.
Morrison, E. R. (Jr.), Mgr., Morrison Boiler Co.
Rigby, A. V. (Jr.), M. M., Carnegie Steel Co.
Warren, G. S., Ch. Engr., Sharon Steel Hoop Co.
- Shawnee-on-Delaware.**—Worthington, C. C., Manwalamink.
- South Bethlehem.**—Blakeley, G. H., Struc. Engr., Bethlehem Steel Co.
Brunner, R. S., Ch. Engr., Lehigh Coke Co.
Butterfield, T. E., Cons. Engr., Asst. Prof. M. E., Lehigh Univ.
Colby, A. L., Cons. Engr., Iron, Steel and Fuel Metallurgist, 447 Lehigh St.
de Schweinitz, P. B., Prof. Mch. Design, Lehigh Univ.
Grover, C. L. (Jr.), Leading Draftsman Turret Div. Ordnance Dept., Bethlehem Steel Co.
Harleman, S. T., Supt. Crucible Steel Dept., Bethlehem Steel Co.
Johnston, A., V. P., Bethlehem Steel Co.
Klein, A. W., Assoc. Prof. M. E., Lehigh Univ.
Klein, J. F., Dean of Faculty, Prof. M. E., Lehigh Univ.
Knisely, E. S., Genl. Sales Agt., Bethlehem Steel Co.
Larkin, F. V., Asst. Prof. M. E., Lehigh Univ.

PENNSYLVANIA, South Bethlehem (Continued).

Leibert, J., Supt. of Forge, Bethlehem Steel Co.
 Maguire, M. T., Engr., Power Dept., Bethlehem Steel Co.
 Mardaga, L. (Jr.), Lehigh Univ.
 Mixsell, A. D., Bethlehem Steel Co.
 Pelly, J. F., M. E., Bethlehem Steel Co.
 Roberts, A. L., M. E., Lehigh Valley R. R.
 Seem, C. B. (Jr.), Designing Draftsman, Eng. Dept., Bethlehem Steel Co.
 Spencer, R. L. (Jr.), Instr. M. E., Lehigh Univ.
 Sterner, E. J. (Jr.), 405 Pawnee St.
 Sullivan, F. A., Ch. Draftsman Ordnance Drawing Rm., Bethlehem Steel Co.
 von Philp, C., Mgr. Mchy. Dept., Bethlehem Steel Co.
 West, A., Mgr. Power Dept., Bethlehem Steel Co.

State College.—Burr, F. A., M. E. Dept., Pa. State College.

Calderwood, J. P. (Jr.), Assoc. Prof. M. E., Pa. State College.
 Dedrick, B. W., Instr. Flour Mill Engrg., Pa. State College.
 Diemer, H., Prof. Industrial Engrg., Pa. State College, Cons. Industrial Engr.
 Fehr, R. B. (Jr.), Asst. Prof. M. E., Pa. State College.
 Henshall, P. P. (Jr.), Instr. Mch. Shop Practice, Pa. State College.
 Mease, J. A., Assoc. Prof. Mch. Design, Charge Dept. Mch. Design, Pa. State College.
 Sackett, R. L., Dean of Engrg., Charge Arch. C., M. and E. E., Dir., Engrg. Exper. Sta., Pa. State College.
 Tabor, W. H. (Jr.), Industrial Engrg., Pa. State College.
 Wood, A. J., Assoc. Prof. Railroad M. E., Pa. State College.

Steelton.—Howells, F. E., Supt. of Shops, Pa. Steel Co.

Smith, W., Genl. M. M., Pa. Steel Co.
 Turner, C. P., Ch. Engr., Pa. Steel Co.
 Varnes, S. K. (Jr.), Exper. Engr., Pa. Steel Co.

Stowe.—Tarbox, G. R., Engr., Stanley G. Flagg & Co.**Swarthmore, Del. Co.**—Beardsley, A., Emeritus Prof. Engrg., Swarthmore College.

Blessing, G. F., Prof. M. E., Charge Engrg., Swarthmore College.
 Brown, R. G., Woolman House.
 Lewis, G. W., Asst. Prof. M. E., Charge Exper. Engrg., Swarthmore College.

Uniontown.—Hargrave, H. H., Designer, W. J. Rainey, 725 First Natl. Bank Bldg.

Porter, G., Cons. Engr., Box 327.
 Willard, L. L., Asst. Genl. Mgr., W. J. Rainey Coke Co.

Vandergrift.—Anderson, H. L. (Jr.), M. M., Am. Sheet & Tin Plate Co.
 Bodwell, H. L., Asst. Dist. Mgr., Am. Sheet & Tin Plate Co.**Wallingford.**—Thompson, Col. J. T., Cons. Engr., Palmer's Corner, Providence Rd.**Wampump, Lawrence Co.**—Hughes, R. H., V. P., Genl. Mgr., Crescent Portland Cement Co.**Warren.**—Kirsch, J. L., Engr., Estimating Dept., Struthers-Wells Co.
 McGrail, F. J., Fdy. Supt., Struthers-Wells Co.**Washington.**—Armstrong, H. C. (Jr.), Inspr. Materials, Panama Canal.
 Lambie, J. M. (Jr.), Asst. Genl. Mgr., Findlay Clay Pot Co.**Waynesboro.**—Allen, F. L., Rep., Landis Tool Co.

Frick, A. O., Pres., Frick Co.
 Landis, M. H., Genl. Mgr., Supt., Engr., Landis Engrg. & Mfg. Co.

West Newton.—Danforth, T. D. (Jr.), M. E., U. S. Radiator Corp.

PENNSYLVANIA (Continued).

- West Philadelphia.**—Marot, E. H. (Jr.), Sales Engr., 4931 Chester Ave.
 Sumner, E., M. M., Pa. R. R.
- Wilkes-Barre.**—Bunting, D., Ch. Engr., Lehigh & Wilkes-Barre Coal Co.
 Doughty, J. H., M. E., Lehigh & Wilkes-Barre Coal Co.
 Flanigan, E. B. (Jr.), Asst. to M. M. Spring Wks., Sheldon Axle Co.
 Hamilton, J. V., Vulcan Iron Wks.
 Koplín, R. D. (Jr.), Mech. Draftsman, Lehigh Valley Coal Co.
 Morgan, H., M. E., 302-304 Second Natl. Bank Bldg.
 Nicholson, S. T., Pres., Genl. Mgr., Vulcan Iron Wks.
 Norris, R. V., Cons. Engr., 524 Second Natl. Bank Bldg.
 Wood, S. V., 334 S. Franklin St.
- Wilkesburg.**—Blaisdell, A. H. (Jr.), 736 Wallace Ave.
 Bryen, T. T., M. E., Ardmore Blvd., Edgewood Acres.
- Williamson School P. O., Del. Co.**—Pratt, J. A., Dir., Williamson Free
 Sch. of Mech. Trades.
- Williamsport.**—Lynn, T. H. (Jr.), Sales Mgr., Lycoming Fdy. & Mch. Co.
 Shepherd, W. G., Genl. Mgr., Shepherd Engrg. Co.
 Wendle, G. E., Asst. Genl. Mgr., Charge Tech. Depts., Lycoming Edison &
 Williamsport Passenger Ry. Cos.
- Wilmerding.**—Buenting, O. W., Genl. Supt., Westinghouse Air Brake Co.
 Humphrey, A. L., V. P., Genl. Mgr., Westinghouse Air Brake Co.
 Tonkin, E., Westinghouse Air Brake Co.
 Turner, W. V., Ch. Engr., Westinghouse Air Brake Co.
- Woodlawn.**—Cronmeyer, H. C., Efficiency Engr., Jones & Laughlin Steel Co.
 Gressley, O. E., Ch. Engr., Jones & Laughlin Steel Co.
 Ormston, A. J., Jr. (Jr.), Steam Engrg. Dept., Jones & Laughlin Steel Co.
- Woodlyn.**—Lukens, W. P. (Jr.), Mechanic, Hupp Motor Car Co. of Detroit,
 Mich.
- York.**—Campbell, G., Pres., Genl. Mgr., York Rys. Co.
 Farquhar, F., Genl. Mgr., A. B. Farquhar Co., Ltd.
 Goodling, H. P., Sales Mgr., A. B. Farquhar Co., Ltd.
 Ramsey, W. H. C., Genl. Mgr., York Water Co.
 Shipley, T., V. P., Genl. Mgr., York Mfg. Co.

PHILIPPINE ISLANDS

- Laguna.**—Campion, N. G., Genl. Mgr., Calamba Sugar Estate, Canlubang.
- Manila.**—Allen, E. E., Engr., Abaca Products Co.
 Blaisdell, B. H., Ch. Engr., Manila Elec. R. R. & Light Co.
 Jenks, G. F., Major Ordnance Dept., U. S. A., Manila Ordnance Depot.
 Naess, R. (Jr.), M. E., Engrg. Dept., Am. Trading Co.
 Peacock, E. A., Wks. Mgr. Struc. Steel Fdy. and Mch. Shops, Atlantic Gulf
 & Pac. Co.
 Reynolds, H. W., Prof. M. E., Cons. Engr., Univ. of Philippines.
 Strong, F. L., Pres., Frank L. Strong Mchy. Co.

PORTO RICO

- Arecibo.**—Burlingame, W. B., Arecibo Ice & Soda Water Co., Inc.
- Eusenada.**—Nadler, H. A. (Jr.), Asst. Ch. Engr., Guanica Centrale Sugar Co.
- Fajardo.**—Scherr, F., Jr., Ch. Engr., Fajardo Sugar Co.
- Manati.**—Saldana, E. E., M. E., Ch. Engr., Central "Monserrate."

PORTO RICO (Continued).

Ponce.—Junghans, E. K., Supt. of Fabrication, Ch. Engr., Succession J. Serralles, Central Mercedita.

San Germán.—Chandler, H. M., Supt. Constr., Bd. of Home Missions of Presbyterian Church of New York, N. Y.

RHODE ISLAND

Auburn.—Murphy, W. T., Genl. Mgr., Stand. Mchy. Co.

East Providence.—Fuller, A. A., 19 Hawthorne Ave.

Fort Greble.—Ireland, M. L., Capt. Coast Artillery Corps, U. S. A.

Newport.—Mason, E. P., Secy., Supt., Newport Engrg. Wks.
Taylor, L. B., Torpedo Engr., U. S. Naval Torpedo Sta.

Pawtucket.—Bliss, E. C., 69 Mulberry St.

Bullock, E. R., M. E., 38 Brook St.

Carpenter, J. M., Pres., Treas., Genl. Mgr., J. M. Carpenter Tap & Die Co.

Davis, G. H. (Jr.), Secy., J. J. Kenyon Mfg. Co.

Seabury, D., Arch., Engr., 12 East Ave.

Simmons, H. R., Mech. Supt., Lorraine Mfg. Co.

Westcott, V. S., Mech. Supt., J. & P. Coats, Inc.

Phillipsdale.—Mackenzie, M. (Jr.), Glenlyon Dye Wks.

Schafer, R. H., Supt., River Spinning Co.

Providence.—Adams, C. E. (Jr.), Draftsman, Jenks & Ballou.

Aldrich, J. G., Pres., N. E. Butt Co.

Alexander, W. P., Engr., Sales Mgr., Providence Engrg. Wks.

Almy, D., Pres., Almy Water Tube Boiler Co.

Annan, A. H., Supt., R. I. Tool Co.

Bartlett, D. K., Genl. Mgr., Asst. Treas., Builders Iron Fdy.

Beaman, E. A., Beaman & Smith Co.

Blake, F. C. (Jr.), Instr. M. E., Brown Univ.

Blanding, R. L., Assoc. with Warren B. Lewis, Cons. Engr.

Briggs, L. E., 129 Waverly St.

Brooks, J. A., Assoc. Prof. Mech. and Mech. Drawing, Brown Univ.

Brown, E. W., V. P., Engr., Blackstone & Merchants Mutual Fire Ins. Cos.

Buker, H., Brown & Sharpe Mfg. Co.

Burlingame, L. D., Industrial Supt., Brown & Sharpe Mfg. Co.

Burt, G. R., Sales Agt., Cons. Engr., Am. & British Mfg. Co.

Buttolph, B. G., V. P., Engr., Mfrs. Mut. Fire Ins. Co.

Clark, D. B., Providence Engrg. Wks.

Connet, F. N., Ch. Engr., Sales Mgr. Venturi Meter Dept., Builders Iron Fdy.

Cross, H. B., Secy., Genl. Fire Extinguisher Co.

Dart, W. C., Pres., R. I. Tool Co.

Davis, C. E., Mgr., Am. Loco. Co.

DeWolf, P. C., Asst. Treas., Brown & Sharpe Mfg. Co.

Dickerman, A. C., Warren B. Lewis, Cons. Engr., 10 Weybosset St.

Du Villard, H. A., M. E., 173 George St., East Side Sta.

Estes, W. W., Designer, Genl. Fire Extinguisher Co.

Freeman, J. R., Pres., Mfrs. Mut. Fire Ins. Co., Cons. Engr., N. Y. Bd. of Water Supply, New York, N. Y.

Giles, C. E., Agt., Am & British Mfg. Co.

Guy, A. E., M. E., Providence Engrg. Wks.

Hall, J. A. (Jr.), Asst. Prof. M. E., Brown Univ.

Heisler, F. W., 160 Broad St.

Hintze, T. F. (Jr.), Fuel Oil Engr., Tex. Co.

RHODE ISLAND, Providence (Continued).

- Hunt, H. R. (Jr.), Engr., Arch., 517 Howard Bldg.
 Jenks, R. P., Cons. Engr., Jenks & Ballou.
 Kenerson, W. H., Prof. M. E., Brown Univ.
 Kennedy, W. A., Testing Engr., Genl. Fire Extinguisher Co.
 Lambelet, C. H. (Jr.), Providence Engrg. Wks.
 Langelier, A. J., Pres., Designing Engr., Langelier Mfg. Co.
 Loepsinger, A. J., M. E., Genl. Fire Extinguisher Co.
 McGregor, H. R., Mech. Supt., Brown & Sharpe Mfg. Co.
 McIntosh, S. F., Constr. Engr., 1401 Turks Head Bldg.
 McSoley, F. B. (Jr.), Service Dept., Narragansett Elec. Ltg. Co.
 MacLeod, F. N., Sales Engr., Brown & Sharpe Mfg. Co.
 Lewis, W. B., Cons. Engr., 739 Grosvenor Bldg.
 Makepeace, C. R., Arch., Mill Engr., C. R. Makepeace & Co.
 Merritt, A. A., M. E., Brown & Sharpe Mfg. Co.
 Newton, G. H., M. E., 292 California Ave.
 Ode, R. T., Secy., Providence Lithograph Co.
 Phillips, J. C. (Jr.), Engrg. Dept., Revere Rubber Co.
 Pingree, E. D., V. P., Engr., Mfrs. Mut. Fire Ins. Co.
 Pitman, S. M., V. P., Narragansett Mut. Fire Ins. Co.
 Putnam, F. W., Dir. Coöperative Industrial Course, Tech. H. S.
 Richardson, C. G., Sales Engr. Meter Dept., Builders Iron Fdy.
 Richmond, H. A. (Jr.), Pres., Am. Emery Wheel Wks.
 Richmond, K. C., Cons. Engr., 526 Grosvenor Bldg.
 Robertson, R. A., Treas., Providence Engrg. Wks.
 Sargent, J. W., Mech. and Cons. Engr., 303 Benefit St.
 Sharpe, H. D., Treas., Brown & Sharpe Mfg. Co.
 Sharpe, L.
 Smith, G. H., Pres., Beaman & Smith Co.
 Snow, S. M., Cons. Engr., 257 Gano St., East Side Sta.
 Tourjee, W. O., Salesman, M. E., Providence Engrg. Wks.
 Viall, W. A., Secy., Brown & Sharpe Mfg. Co.
 Walker, F. A., M. E., B. B. & R. Knight.
 Walker, S. G., Engr., Mfrs. Mut. Fire Ins. Co.
 Whitehead, G. E., M. E., 621 Broadway.

Saylesville.—Fisher, H. C. (Jr.), Constr. Engr., Sayles Bleacheries.

- Gates, T. P., Glenlyon Dye Wks.
 Herr, G. D. (Jr.), M. E., Sayles Bleacheries.
 Hussey, C. W. (Jr.), Ch. Engr., Plant A, Sayles Bleacheries.
 Reno, H. P. (Jr.), Sayles Bleacheries.
 Wood, K. F., Supt., Sayles Bleacheries.

Tiverton.—Luther, S. G.**Warren.**—Dickey, R. L. (Jr.), Planning Clerk, N. Y., N. H. & H. R. R.
 Wightman, D. A., Cons. Engr.**Westerly.**—Dock, H., M. E., U. S. Motor Co.
 Whittall, R. C. (Jr.), Engr., Whittall Elec. Co.**Woonsocket.**—Carpenter, R. E., Sales-Mgr., Taft-Peirce Mfg. Co.
 Glass, W. C. (Jr.), 114 Collins St.
 Richardson, C. F., Ch. M. E., Taft-Peirce Mfg. Co.
 Sweeney, M. M., Ch. Draftsman, Woonsocket Meh. & Press Co.**SOUTH CAROLINA****Charleston.**—Barkley, M. B. (Jr.), V. P. Cameron & Barkley Co., Genl.
 Asbestos & Rubber Co.
 Sheppard, J. L., Jr., Box 420.

SOUTH CAROLINA, Charleston (Continued).

Thornhill, T. W. (Jr.), Mgr., Charleston Oil Co.

Wait, J. R., Mgr., Charleston Ore Co.

Clemson College.—Earle, S. B., Dir. Engrg. Dept., Prof. M. E., Clemson College.

Greenville.—Neale, W. McC. (Jr.), Ch. Draftsman, Am. Mch. & Mfg. Co.

Hartsville.—Coker, J. L., Jr., V. P., Carolina Fiber Co.

Spartanburg.—Patch, J. A. (Jr.), Sales Mgr., M. E., Suspension Bearing Co.

Sumter.—Gentry, T. C. (Jr.), E. and M. E., Sumter Elec. Co.

SOUTH DAKOTA

Brookings.—Cook, R., Prof. Exper. Engrg., S. D. State College.

Vermillion.—Davidson, M. W., Prof. M. E., Univ. of S. D.

TENNESSEE

Brentwood.—Collier, W. H.

Chamberlain.—Howie, H. B., Roane Iron Co.

Chattanooga.—Agner, O. B. (Jr.), Mgr. of Sales, Chattanooga Ry. & Light Co.

Berry, A. O., Senior M. E. So. Dist., Div. of Valuation, Interstate Commerce Com.

Catlin, A. D., V. P., Wks. Mgr., Wheland Co.

Catlin, W. L. (Jr.), Supt., Wheland Co.

Dwight, R. W. (Jr.), Sales Dept., Walsh & Weidner Boiler Co.

Imbrie, W. M., Jr., Asst. Engr., Chattanooga Gas & Coal Products Co.

Jackson, P. (Jr.), Ellis Hotel.

Lander, R. S., Assoc. Engr., Soper Engrg. Co.

McClelland, C. C. (Jr.), Chattanooga Ry. & Light Co.

Patterson, E. C., Secy., Genl. Mgr., Chattanooga Boiler & Tank Co.

Petersen, S., Ch. Engr., So. Well Wks. Co.

Rigdon, C. (Jr.), Supt. Light and Power, Chattanooga Ry. & Light Co.

Rugg, D. M. (Jr.), Supt., Chattanooga Gas & Coal Products Co.

Sanders, N., Prop., Newell Sanders Plow Co.

Soper, E., Pres., Soper Engrg. Co.

Stimmel, F. C., Sales Mgr., Casey-Hedges Co.

Weigel, A. C., Sales Mgr., Walsh & Weidner Boiler Co.

Copperhill.—Burgoon, C. E., Ch. M. and E. E., Carbolite Chem. Co. (Tenn. Copper Co.).

Slaughter, B. G., V. P., Tenn. Copper Co.

Kingsport.—Griffiths, L. L., Genl. Supt., Clinchfield Portland Cement Corp.

Knoxville.—Erlandson, E. W. (Jr.), Traveling Sales Engr., Annex Co.

Ferris, C. E., Prof. M. E., Dean of Engrg., Univ. of Tenn.

Jones, F. R., 1702 Melrose Pl.

Stephenson, T. I., Pres., Mgr., Knoxville Iron Co., Pres., Cross Mountain Coal Co.

Switzer, J. A., Prof. Hyd. Engrg., Univ. of Tenn., Hyd. Engr., Tenn. State Geological Survey.

Memphis.—Alexander, L. B., Ozburn Auto. Supply Co.

Allen, T. H., Partner, Hoshall Mehy. Co.

Gardner, W. M., Asst. Engr., U. S. Engr. Office.

Gladfelter, H. S., Junior M. E., U. S. Engr. Office.

TENNESSEE, Memphis (Continued).

Howell, A. K. (Jr.), Sales Rep., Henry R. Worthington.

Proutt, F. G., Cons. Engr., 374 Randolph Bldg.

Turner, G. S., Supt. Central Sta., Memphis Consoltd. Gas & Elec. Co.

Walters, W. T. (Jr.), Insp. Mech. Dept., Ill. Central R. R.

York, R., V. P., Treas., York Lumber & Mfg. Co., V. P., Grant Lumber Co.

Nashville.—Allen, W. H. (Jr.), Allen-Scales Engrg. Co.

Bixby, W. P., Investigating Engr., Nashville, Chattanooga & St. Louis Ry., Mech. Dept.

Brown, C. S., Prof. M. E., Vanderbilt Univ.

Pfeiffer, B. V. (Jr.), Engr., Nashville Gas & Htg. Co.

Rooney, M. A. (Jr.), Ch. Smoke Insp. of Nashville.

Siebert, F. T., Dist. Insp. Loco. Boilers, Interstate Commerce Com.

Richard City.—Klein, W. H., Supt., Dixie Portland Cement Co.**Winchester.**—Brown, H. T., Stone Fort Power Co.

Lander, R. S., County Engr.

TEXAS**Ablene.**—Neff, A. J., P. O. Box 127.

Wainright, A. V., V. P., Genl. Mgr., Am. Pub. Serv. Co.

Beaumont.—Hosmer, F. E. (Jr.), Asst. M. E., Draftsman, Gulf Pipe Line Co.

Kincade, E. C., M. E., Gulf Pipe Line Co.

Canutillo.—Whittier, C. R.**Cement.**—Avnsoe, T. (Jr.), Supt., Tex. Portland Cement Co.**Childress.**—Newby, H. L. (Jr.), Ch. Draftsman, F. W. & D. C. R. R. Co.**College Station.**—Fermier, E. J., Prof. M. E., Agri. and Mech. College of Tex.

Smith, H. E., Assoc. Prof. M. E., Agri. and Mech. College of Tex.

Dallas.—Elrod, H. E., 905 Southwestern Life Bldg.

Gildehaus, R. F., Jr. (Jr.), Supvg. Engr., Busch Interests in Tex., 922 Busch Bldg.

Scott, Dr. A. C., Pres., Scott Cons. Engrg. Co.

Shaw, J. D., Asst. Engr., Tex. Power & Light Co.

Stanciff, A. D. (Jr.), Field Engr., Tex. Portland Cement Co.

Wilson, R. E., Factory Supt., Continental Gin Co.

El Paso.—Bergman, J. G., M. E., David Cole, Cons. Engr., 1211 Mills Bldg.

Childs, J. N., Mgr., Fred M. Prescott Steam Pump Co.

Vandemoer, J., Am. Smelting & Refining Co.

Fort Worth.—Barrows, L. E., Tex. Co.**Freeport.**—Burns, H. S., M. E., Freeport Sulphur Co.**Galveston.**—Chester, C. P., Stone & Webster Engrg. Corp.**Houston.**—Colles, G. W., Cons. E. and M. E., 301 Kress Bldg.

Crawford, C. C., Jr. (Jr.), Houston Mgr., A. M. Lockett & Co., Ltd.

Dawson, V. S. (Jr.), Supt., Fidelity Cotton Oil Co.

Frost, F. G., Genl. Supt., Houston Ltg. & Power Co.

Hartwell, A. E., M. E., Asst. Mgr., Mem. Bd. of Dirs., Hartwell Iron Wks.

Hildenbrand, H. (Jr.), Genl. Supt., L. C. Ehle Oil Mills.

Lucke, H. R., Mgr., De La Vergne Eng. Co.

Netherwood, J. S. (Jr.), Draftsman M. P. Dept., Sunset Central Lines.

Pound, J. H. (Jr.), Instr. M. E., Rice Inst.

Scott, C. N., V. P., Producers Oil Co.

Steen, A. B., Producers Oil Co.

TEXAS, Houston (Continued).

Vick, A. T., E. and M. E., 621 Chronicle Bldg.

Westerfield, G. S. (Jr.), So. Mgr., Dist. Mgr., Hooven, Owens, Rentscheler Co., Warren Webster & Co.

Mercedes.—Shaw, W. F., Ch. Engr., Genl. Mgr., Am. Rio Grande Land & Irrigation Co.

Port Arthur.—Henderson, H., Cons. Engr., Gulf Refining Co.

Moran, D. J. (Jr.), Engr. in Charge, Tex. Co.

Smith, F. C., Genl. Supt., Tex. Co.

San Antonio.—Jones, R., Bartlett & Ranney, Inc.

Tuttle, W. B., V. P., San Antonio Gas & Elec. Co., V. P., San Antonio Traction Co.

Texas City.—Chapman, H. B., Owner, Chapman Engrg. Co.

Waco.—Brinkerhoff, A. D. (Jr.), 1313 S. 8th St.

UTAH

Garfield.—Lillie, G. W. (Jr.), M. M., Bingham & Garfield Ry. Co.

Selfridge, S. W. (Jr.), Garfield Smelting Co.

Lehi.—McAllister, D. H., Supt., Utah Lake Irrigation Co.

Midvale.—Anderson, L. D., Supt., U. S. Smelting Co.

Salt Lake City.—Bailey, L. M., Genl. Mgr., Portland Cement Co. of Utah.

Beckstrand, E. H., Prof. M. E., Univ. of Utah.

Cheever, M., Ch. Engr., Utah Power & Light Co.

Davoud, V. Y., E. and M. E., Utah Power & Light Co.

Jennens, A. E. (Jr.), Constr. Foreman, Phoenix Constr. Co.

Rattle, P. S., Sales Dept., Midvale Steel Co.

Thurston, W. R., Mgr., Mine & Smelter Supply Co.

Trask, W. H., Jr. (Jr.), Utah Power & Light Co.

Wegg, D. S., Jr., Asst. Genl. Mgr., Telluride Realty Co.

Wraith, W., Internatl. Smelting & Refining Co.

Zach, L. M. (Jr.), P. O. Box 116.

Standardville.—Oram, R. C. (Jr.), Box 1712.

VERMONT

Bennington.—Beach, C. S. (Jr.), Designer, Machinist, 745 Main St.

Burlington.—Robinson, E., Prof. M. E., Univ. of Vt.

Proctor.—Proctor, R., Asst. Genl. Supt., Vt. Marble Co.

Rutland.—Montgomery, H., Rutland R. R. Co.

Steward, G. H., Charge Designing, Supt. Constr. of Mchs., L. & J. A. Steward.

White, E. F., Cons. Engr., Sulphur Plants, and Sand Lime Brick Plants, Pres., Rutland Mfg. Co.

St. Johnsbury.—Bousfield, A., Ch. Engr., E. & T. Fairbanks Co.

Sheldon Springs.—Raymond, H. E., M. E.

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Perry, G. A., M. E., Jones & Lamson Mch. Co.

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Richmond.—Archer, E. R., Ch. Engr., Tredegar Co.

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Hamilton, J. D. (Jr.), 301-302 Am. Natl. Bank Bldg.

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Roelker, C. J., Cons. Engr., State Bank Bldg.

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Frink, G., V. P., Mgr., Wash. Iron Wks.

Heffernan, J. T., Pres., Mgr., Heffernan Eng. Wks.

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Hull, J. D., 351 Colman Bldg.

Isham, A. K., Pres., Genl. Mgr., West Coast Iron Wks.

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Goddard, A. L., Supt. of Shops, Univ. of Wis.
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Johnson, H. S., V. P., Genl. Supt., Gisholt Mch. Co.
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 Reber, L. E., Dean Univ. Extension Div., Univ. of Wis.
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 Wynne, J. H., Mgr., Montreal Loco. Wks., Ltd.
 York, J. J., Ch. Engr., St. Lawrence Sugar Refining Co.

Nelson, B. C.—Ohren, G. A., Branch Mgr., Canadian Ingersoll-Rand Co., Ltd.

New Glasgow, Nova Scotia.—Matheson, W. G., Mgr., I. Matheson & Co.,
 Ltd.

Niagara Falls, Ontario.—Ambler, N. B., Supt. Gen. Sta. Toronto Power
 Co., Ltd.

Ottawa, Ont.—Bayfield, H. A., Prin. Asst. Engr., Dept. Rys. and Canals,
 Terminus Hudson Bay Ry.

Pinch, H. H., Asst. Engr., Natl. Transcontinental Ry.

Press, W. J., M. E., Natl. Transcontinental Ry. of Canada.

Paris, Ontario.—McFarlane, G. W., Ch. Engr., Penmans, Ltd.

Peterboro, Ontario.—Sangster, W., M. E., De Laval Dairy Supply Co.,
 Ltd.

Prince George, B. C.—Brown, M. G., Pres., No. Tel. & Power Co., Ltd.

Quebec, Quebec.—Ross, Sir C. H. A. F. L., Pres., Ross Rifle Co.

St. Catharines, Ontario.—Hamilton, R. B., Pres., Genl. Mgr., Packard
 Elec. Co., Ltd.

Jones, E. H., Supt., Canadian Yale & Towne, Ltd.

Sault Ste. Marie.—Speer, C. H., Ch. Engr., Algoma Steel Corp.

Sherbrooke, Quebec.—Haight, H. V., Ch. Engr., Canadian Ingersoll-
 Rand Co., Ltd.

Sangster, A., Supt., Canadian Ingersoll-Rand Co., Ltd.

Sydney, Nova Scotia.—Graham, W. H., Mech. Supt., N. S. Steel & Coal
 Co., Ltd.

Timmins, Ont.—Cragg, W. S. (Jr.), Constr. Supt., Hollinger Gold Mines,
 Ltd.

Robbins, P. A., Genl. Mgr., Canadian Min. & Finance Co.

Toronto, Ontario.—Aeberli, A., Hyd. Engr., Canadian Allis-Chalmers, Ltd.

Ahara, G. V., M. E., Canadian Fairbanks-Morse Co., Ltd.

Angus, R., Cons. Engr., 47 King St., W.

CANADA, Toronto, Ontario (Continued).

- Angus, R. W., Prof. M. E., Faculty Applied Sci. and Engrg., Univ. of Toronto.
 Brooks, P. C., V. P., Canadian Fairbanks-Morse Co., Ltd.
 Clark, F. G., Ch. Engr., Toronto Power Co., Toronto Elec. Light Co., Toronto, St. Ry. Co.
 Conway, G. R. G., Cons. Engr., 409 Royal Bank Bldg.
 Dickey, A. J., Genl. Mgr., C. A. Dunham Co., Ltd.
 Fletemeyer, L. H. (Jr.), Sales Dept., A. R. Williams Mch. Co., Ltd.
 Graburn, A. L., Asst. Supt. Rolling Stock, Canadian No. Ry.
 Hamilton, C. B., Jr., Mgr., Hamilton Gear & Mch. Co.
 Healy, F. E., 1387 Queen St., W.
 Hudson, F. W., M. E., Natl. Iron Wks., Ltd.
 Lane, L. K., Mgr., Invincible Renovator Mfg. Co., Ltd.
 Milne, J., M. and E. E., City of Toronto.
 Mitchell, P. H., Mem. of Firm, C. H. & P. H. Mitchell.
 Moody, Capt. F. H. (Jr.), Mech. Editor, Canadian Ry. and Marine World.
 Robinson, W. P., Sales Engr., No. Crane Wks., Ltd., Elec. Controller & Mfg. Co.
 Scollan, J. J., Genl. Supt., Canada Fdy. Co., Ltd.
 Watts, G. W., Wks. Mgr., Canadian Genl. Elec. Co.

Vancouver.—Day, P., Treas., Federal Lumber Co.

Hamilton, R., Mgr., Robt. Hamilton & Co.

Taylor, A. J. T., Managing Dir., Taylor Engrg. Co., Ltd.

Victoria, B. C.—Sawford, F., E. E., Canadian Collieries (Dunsmuir), Ltd.**Walkerville, Ontario.**—Haigh, G. R., Wilt Twist Drill Co.

Sibley, M. M., M. E., Wilt Twist Drill Co.

Waterville, Quebec.—Gale, W. D. (Jr.), Exper.**Welland, Ontario.**—Greene, R. A., Genl. Mgr., M. Beatty & Sons.**West Toronto, Ontario.**—Burt, C. R., Factory Mgr., Russell Motor Car Co., Ltd.**Windsor, Ontario.**—Henderson, E. G., Mgr., V. P., Canadian Salt Co., Ltd.**Winnipeg, Manitoba.**—Hartwell, H., Winnipeg River Power Co.

Rowse, W. C. (Jr.), Prof. M. E., Univ. of Manitoba.

Spidy, E. T. (Jr.), Asst. Genl. Foreman, Canadian Pacific Ry. Loco. Shops.

Stee, R. M. (Jr.), Engr., Salesman, Canadian Fairbanks Morse Co.

Wolfville, Nova Scotia.—Clarkson, R. P., Prof. Engrg., Acadia Univ.**CENTRAL AMERICA****San Jose, Costa Rica.**—Purdy, H. T., Mgr., Purdy Engrg. Co.**CHANNEL ISLANDS****St. Aubin, Jersey.**—Robeson, A. M., "Beauvoir."**CHINA****Chihli.**—Foster, F. A., Instr. Manual Training and Drawing, Chihli Higher Normal College, Paotingfu.**Lincheng, North China.**—Kwang, K. Y., Dir., Engr., Lincheng Mines, via Peking.**Shanghai.**—Cox, F. W., Andersen, Meyer & Co., Ltd.

CUBA

- Aguada de Pasajeros, Prov. de Santa Clara.**—Clarke, P. L. (Jr.), E. E., Violet Sugar Co.
- Easenada de Mora.**—Stuntz, J. E. (Jr.), Supt., Cape Cruz Co.
- Felton.**—Little, J. E., Ch. M. E., Spanish-Am. Iron Co.
- Francisco, Provincia de Camaguey.**—Crawley, G. E. (Jr.), Francisco Sugar Co.
- Havana.**—Arozarena, R. M. de, Engr., Contr., Apartado 1230, Villaneuva.
Dearborn, W. L. (Jr.), Res. Engr., Barclay, Parsons & Klapp, Port of Havana Docks Co.
Estrada, E. D., Ch. Engr., Div. of Shops and Mch., Maestranza.
Flanders, W. B., Supt. of Power, Havana Elec. Ry., Light & Power Co.
Lee, W. R., Rep., Baldwin Loco. Wks.
Miller, E. J., Mem. of Firm, Miller Bros.
Seidel, V. B., Sales Engr., Ingersoll-Rand Co. of N. Y.
Ulbricht, T. C., Havana Elec. Ry., Light & Power Co.
- Matanzas.**—Pelly, L. J., Genl. Mgr., Matanzas Am. Sugar Co., Benavides.
Polledo, Y. (Jr.), Manzaneda 16.
- Oriente.**—Miller, E. G., Genl. Mgr., Rio Cauto Sugar Co.
- Santa Clara.**—Ogg, J., Am. Cuban Estates Corp., Central Caracas.
- Trinidad.**—Turner, W. C. (Jr.), Trinidad Sugar Co.
- Victoria de las Tunas.**—Estrada, R., Central Manati.

DENMARK

- Copenhagen.**—Messenger, R. P., Internatl. Harvester Corp., 33 Vestre Blvd.

DUTCH EAST INDIA

- Batavia, Java.**—Becker, L., Genl. Rep., U. S. Steel Products Co.
- Socrabala, Java.**—Lowe, R. M., Ch. Engr., D. E. I., Kelly Filter Press Co., care of Van Lelyveld & Co.

ENGLAND

- Birmingham.**—Adams, W. C., King's Norton Metal Co.
Harris, J. W., Dir., Alfred Wiseman, Ltd.
Orcutt, H. F. L., Managing Dir., Gear Grinding Co., Ltd., Handsworth.
Purchas, A. W., Night Supt., Wolsley Motors, Ltd.
- Bournemouth.**—Hubert, H., Prof., Univ. of Liege.
- Coventry.**—Vernon, P. V., Engr., Dir., Alfred Herbert, Ltd.
- Devizes, Wilts.**—Penruddocke, J. H., Allington House.
- Gatley, Cheshire.**—Lister, R. R., Prop., Greenbank Steam Laundry.
- Huddersfield.**—Hopkinson, A. H., Gov. Dir. Britannia Wks., J. Hopkinson & Co., Ltd.
- Hyde, Cheshire.**—Adamson, D., Partner, Jos. Adamson & Co.
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- Lincoln.**—Chorlton, A. E. L., Engrg. Mgr. Sheaf Iron Wks., Ruston Proctor & Co., Ltd.

ENGLAND (Continued).

- London.**—Abercrombie, J. H., care of Farmers Loan & Trust Co.
 Baldwin, O. H., London Dist. Mgr., British Westinghouse Elec. & Mfg. Co., Ltd.
 Black, G., Asst. Ch. Rate-Fixer, Associated Equip. Co., Walthamston, N. E.
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 Carroll, L. D., M. E., care of Humphreys & Glasgow.
 Cloud, J. W., V. P., West. B. Co., Ltd.
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 Heap, D. T., 12 Little College St., Westminster, S. W.
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 Jessen, N. B., 9 Cloak Lane, Cannon St., E. C.
 Knight, C. A., Dir., Babcock & Wilcox, Ltd.
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 Maw, A. E. (Jr.), Engineering.
 Maw, W. H., C. E., Editor, Engineering.
 Park, W. E., Motor Club.
 Pulman, T. C., Sales Mgr., Worthington Pump Co., Ltd.
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 Skinkle, J. W., Acting Wks. Mgr., West. Elec. Co., Ltd., North Woolwich.
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 Sparks, H. C., Cons. Engr., Moorgate Court.
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 Thuman, Dir., Humphreys & Glasgow, Ltd.
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 Walker, C. A. (Jr.), Teaching M. E., London Co. Council Sch. of Engrg. and Navigation.
 Whescott, W. P., Managing Dir., Galena-Signal Oil Co., Ltd.
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 Wilkinson, C. T. (Jr.), Cons. Engr., 42 Bank Bldgs., Kingsway, W. C.
 Woldenberg, I. (Jr.), Ch. Engr., Ingersoll-Rand Co.

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- Brown, A. G., 53 Victoria Bldgs.
 Field, A. B., Municipal Sch. of Tech., Whitworth St.
 Lang, P. A., Managing Dir., British Westinghouse Elec. & Mfg. Co., Ltd.
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- Thomas, W. H., Managing Dir. Brightside Wks., Wm. Jessop & Sons, Ltd.

ENGLAND (Continued).**Smethwick.**—Fallon, J. (Jr.), Genl. Mgr., British Mills.**Surrey.**—Yarrow, A. F., Homestead, Hindhead.**FINLAND****Abo.**—Heikel, D. A., M. E.**Lahti.**—Kapy, A. A. (Jr.), Factory Insp., Dist. of Lahti.**FRANCE****Le Havre.**—Schmid, A., Dir., Cons. Engr., Société Anonyme Westinghouse.**Paris.**—Benét, L. V., V. P., Société Anonyme des Anciens Etablissements Hotchkiss & Cie.

Berg, H. O., Engr., 32 Ave. des Champs-Elysees.

Downe, H. S., Dir., Compagnie Nationale Radiateurs.

Eiffel, G., 1, Rue Rabelais.

Garfield, A. S., Ch. Engr., Cie. Française Thompson-Houston.

Léauté, H., Mem. Academy of Science.

Mallet, A., 30 Ave. Trudaine.

Monnot, J. F., Cons. Engr., Duplex Metals Co., V. P., Hudson Wire Co.

Roux, P., 9, rue des Bluets.

Thorn, C. N., V. P., Allied Mchy. Co. of Am.

Trube, G. A., Managing Dir., Compagnie des Freins Westinghouse.

Washington, D. E., Genl. Mgr., Ch. Engr., Packers Architectural & Engrg. Co. of Chicago.

GERMANY**Aachen.**—Wallich, A. O., Prof. Tech. Hochschule.**Berlin.**—Arnold, O., Jr. (Jr.), Mgr., Friedrich Stolzenberg & Co., G. m. b. H., Reinickendorf-West.

Hildreth, W. A., Dir., Alfred Herbert, G. m. b. H.

Lof, O. J., Expt. in Grinding and Grinding Wheels in Europe for Norton Co. of Worcester, Mass., 74 Mühlenstr., Pankow.

Matschoss, C., Prof. History of Tech. and Industries, Berlin Tech. H. S.

Neuhaus, F. A. E., Genl. Mgr., Ch. Engr., A. Borsig, Tegel.

Schuchart, Dr. T., Aschaffenerstr. 18, W. 30.

Charlottenburg.—Froelich, F., Secy., Verein deutscher Maschinenbau-Anstalten.

Schlesinger, G., Prof. Engrg., Tech. Hochschule.

Stumpf, J., Privy Councillor, Prof., Tech. Hochschule.

Coblenz.—von Oswald, W., Privy Councillor of Commerce, Bergassessor, a. D., Carl Spaeter, Rheinzollstrasse 6.**Cologne.**—Neilson, W. L., Genl. Mgr., Deutsche Norton Gesellschaft, m. b. H., Wesseling bez.**Danzig-Langfuhr.**—Schulze-Pillot, G., Prof. M. E., Royal Tech. Univ.**Düsseldorf.**—Gerdau, B., Ch. Engr., Managing Dir., Haniel & Lueg.**Frankfort-on-Main.**—Kretschmer, F. G., Prop., F. G. Kretschmer & Co.**Gotha.**—Kammann, F., Ch. Engr., Briegleb, Hansen & Co.**Munich.**—von Miller, Dr. ing. O., Reichsrat, Ferdinand Millerplatz 3.**Nuremberg.**—Lebrecht, A., Cons. Engr., Hefnersplatz 3.**Schoenebeck-Elbe.**—Shearer, C. A. (Jr.), Nationale Radiator Gesellschaft.

HOLLAND

Amsterdam.—Alta, L. N., M. E., Sole Mem. of Firm, L. N. Alta & Co.

INDIA

Ahmedabad.—Wadia, A. D., Advis. Engr., Prin., A. D. Wadia & Co., Ahmedabad and Bombay, Managing Prop., Imperial Iron Wks., Outside Raipur Gate.

Bombay, South India.—Sitaramacher, B., Supt., Dept. of Industries and Commerce, Ring-Wood.

Bombay.—Malone, J. A. (Jr.), Asst., Stand. Oil Co. of N. Y.

Calcutta.—Lawton, R. W., Mgr., Jewell Export Filter Co.

Karachi.—Porter, L. L. (Jr.), Mem. Exec. Staff, Stand. Oil Co. of N. Y.

Lucknow.—Carter, H. T. (Jr.), Engr., Water Wks., Aish Bagh.

Madras.—Rajagopalan, T. R. (Jr.), Draftsman, Carnatic Mill Co., Ltd., Perambore Barracks.

ITALY

Brescia.—Andrei, C. (Jr.), Società Nazionale dei Radiatori, Borgo S. Giovanni.

Marzoli, L. (Jr.), Genl. Mgr., Supt., Fratelli Marzoli & Cie.

JAPAN

Kobe.—Mizuno, S., Mitsubishi Dockyard & Eng. Wks.

Nishi-Karatsu, Hizen.—Takeo, T., Cons. Engr., Takeuchi Min. Co., Genl. Mgr., Karatsu Iron Wks.

Osaka.—Kuwada, G., Engr., Ch. of Distribution Dept., Osaka Gas Co.

Shimotsuke.—Nakai, K., Ashio Copper Mines.

Tokio.—Inokuty, A., Prof. M. E., College of Engrg., Imperial Univ.

Messer, P., Ch. Engr., Am. Trading Co.

Sakata, S., Prof. M. E., Tokio Tech. College, Asakusa.

Yokohama.—Thurn, T., Engr., Genl. Elec. Co.

MEXICO

Chihuahua.—Hobble, A. C., Ch. E. E., Mex. No. Power Co., Ltd., Santa Rosalia, Camargo.

Lawrence, S., Cons. Min. Engr., P. O. Box 3.

Guanajuato.—Kean, A. J. A., Ch. Operating Engr., Guanajuato Power & Elec. Co.

Mexico City.—Wiggin, R. M., Apartado 97-B.

Tampico.—Posgate, J. S., Eagle Oil Co.

Zamora, Michoacan.—Appleton, W. D. (Jr.), Supt., Guanajuato Power & Elec. Co.

NORWAY

Kraakstad.—Lobben, P., Skodbo.

Heyerdahl, T., Parkveien 33 b.

Mackenzie, E., Supvg. Engr., Constr. Wk. with R. Blakstad, Karl Johansgade 41/III.

ROUMANIA

Bukarest.—Roesler, Dr. R. (Jr.), Pres., Roumanian Enterprises of Deutsche Erdoel Actiengesellschaft, Concordia, Vega, Credit Petrolifer.

RUSSIA

Moscow.—Fast, J. J., Internatl. Harvester Co.

Petrograd.—Hough, D. L., Nevsky No. 1.

Jakowleff, D., Sub-Prof., Military Engr. Academy.

Karmazin, J., Mgr., Siemens-Schuckert, Ltd.

Oppermann, F. M., Mgr., Nordish Plate Glass Wks.

Smith, W. E., Pres., Swedish Portland Cement Mfg. Co.

Weinberg, S. G., Min. Engr., Mgr., Worthington Pump Co., Ltd.

Podolsk, Moscow Gov.—Dixon, W. F., Mgr., Singer Mfg. Co.'s Wks.
Thomas, G. C., Supt., Singer Co.

SCOTLAND

Dundee.—Wilkie, D. C., Poste Restante.

Greenock.—Caird, R., Managing Dir., Caird & Co., Ltd.

Singer, Clydebank.—Rickey, W. J., Singer Mfg. Co., Ltd.

SOUTH AMERICA

Buenos Ayres, Argentina.—Corlette, G. H. (Jr.), Engr., Fairbanks, Morse & Co.

Steenstrup, P. S., care of H. F. Watkins & Co.

Callao, Peru.—Dasso, D. (Jr.), Mgr., Vulcan Iron Wks. Co.

Casapalen, Peru.—Roper, N. B., Genl. Supt. Reduction Wks., Backus & Johnston Co.

Chorrillos, Peru.—D'Ornellas, T. V., Elec. Cons. Engr., Peruvian Gov.

Chuquilemata, Chile.—Nelson, E. B. (Jr.), Chile Exploration Co.,
Serrano, L. R. (Jr.), Mech. Draftsman, Chile Exploration Co.

Curityba, Brazil.—Allen, P. J., Mem., Am. & Brazilian Engrg. Co.

Iquique, Chile.—Billwiller, C. J., Jr., Constr. Engr., Nitrate Agencies, Ltd.

Lima, Peru.—Grieve, A., Prof. Meh. Design, Lima Sch. Min. Engrs.,
Municipal E. E., Lima City, Owner Factoria y Garage.

Marquina, L. G., Engr., Peruvian Corp., Ltd.

Martinto, P., Apartado 146.

Wagner, E. F., Cons. Engr., Calle de Coca 74-76.

Rancagua, Chile.—Cajander, S. G., M. E., Braden Copper Co.

Stockwell, R. K., Ch. Engr., Braden Copper Co.

Rio de Janeiro, Brazil.—Barboza, A. S., Rua Senador Pompeu 268, E. F.
C. B.

Lage, J., Pres., Cia Nacional de Navegacao Costeira.

Prestes, J. A., M. E., Rua da Saude No. 1.

Roubaud, A., Genl. Foreman Sao Paulo Shops, Central R. R. of Brazil.

da Silva, A. P., Genl. Foreman Meh. Shop, Central Ry. of Brazil.

Sloat, H. M. (1914), Rep., Middletown Car Co., Pittsburg Coal Co., Mc-
Clintic Marshall Co.

SOUTH AMERICA (Continued).

- Sao Paulo, Brazil.**—Hillman, C. R., Loco. Supt., Sao Paulo Ry. Co.
 Walmsley, W. N., Genl. Mgr., Sao Paulo Tramway, Light & Power Co., Ltd.
 Weidenbacker, R. W. (Jr.), Tech. Rep., Baldwin Loco. Wks. of Philadelphia, Pa., Caixa do Correio 32.
 Spencer, C. G., Engr., Chile Exploration Co.

SPAIN

- Barcelona.**—Billings, A. W. K., V. P., Managing Dir., Ebro Irrigation & Power Co., Ltd.
 Braun, H. H. (Jr.), Constr. Engr., Cia Reigos & Fuerza del Ebro.
Guadalajara.—Brenner, W. H., Managing Dir. of Wks., Compania Anglo-Espanola de Cemento Portland, Matillas.

SWEDEN

- Kallinge.**—Trotz, J. O. E., Managing Dir., Kockums Jernverks, Aktb.
Stockholm.—Angstrom, C., Cons. Engr., Skepparegatan 5.
 Berg, P. T., Am. Vice-Consul Genl., No. 63, Strandvagen.
 Sunstrom, K. J., Cons. Engr., Odengaten 92.

SWITZERLAND

- Winterthur.**—Meier, K., Htg. and Vent. Engr., 12 Tachlisbrunnen St. Sulzer, J. C., Sulzer Bros.

TURKEY

- Constantinople.**—Breed-Love, L. B. (Jr.), Instr., Robert College.
 Scipio, L. A., Dean and Prof. M. E., Robert College.

WEST INDIES

- St. Andrews, Jamaica.**—Smith, T. C., "Havod," Constant Spring P. O.

PRESENT ADDRESS UNKNOWN

- Berry, E. H.
 Greene, I. C.
 Schott, Dr. O.

SUMMARY OF MEMBERSHIP BY RESIDENCE

UNITED STATES

Alabama	30	Nebraska	12
Alaska	2	Nevada	2
Arizona	13	New Hampshire	16
Arkansas	6	New Jersey	370
California	199	New Mexico	4
Canal Zone	12	New York	1800
Colorado	34	North Carolina	19
Connecticut	310	North Dakota	2
Delaware	41	Ohio	459
District of Columbia	57	Oklahoma	9
Florida	11	Oregon	10
Georgia	24	Pennsylvania	793
Hawaii	12	Philippine Islands	8
Idaho	5	Porto Rico	6
Illinois	483	Rhode Island	94
Indiana	98	South Carolina	9
Iowa	27	South Dakota	2
Kansas	24	Tennessee	45
Kentucky	16	Texas	42
Louisiana	33	Utah	16
Maine	23	Vermont	19
Maryland	71	Virginia	44
Massachusetts	617	Washington	37
Michigan	247	West Virginia	14
Minnesota	81	Wisconsin	135
Mississippi	6	Wyoming	2
Missouri	131		
Montana	13	Total	6595

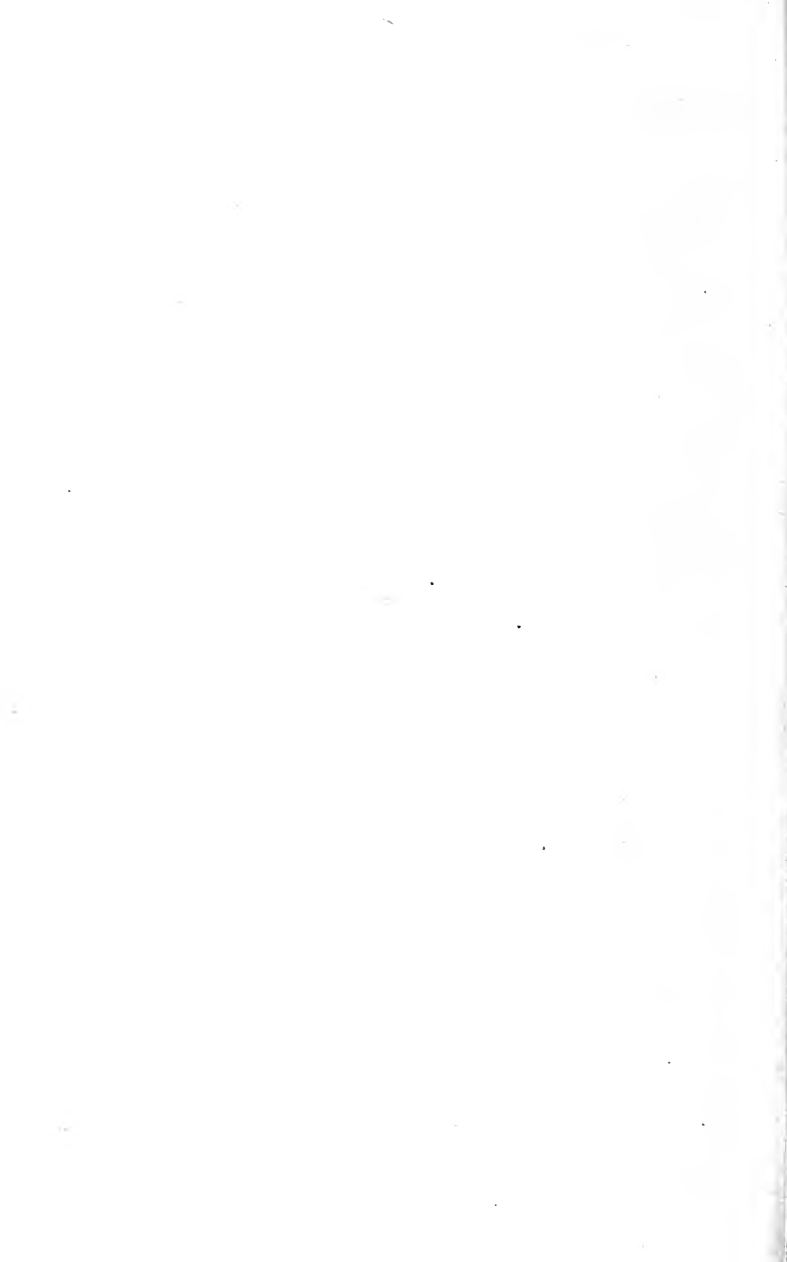
FOREIGN COUNTRIES

Africa	14	Holland	1
Australia	7	India	7
Austria	2	Italy	2
Belgium	1	Japan	8
British West Indies	1	Mexico	6
Canada	107	Norway	3
Central America	1	Roumania	1
Channel Islands	1	Russia	9
China	3	Scotland	3
Cuba	18	South America	25
Denmark	1	Spain	3
Dutch East India	2	Sweden	4
England	63	Switzerland	2
Finland	2	Turkey	2
France	13	West Indies	1
Germany	19		
		Total	333

Membership in United States	6595
Membership in Foreign Countries	333
Present address unknown	3
Total Membership	6931

MEMBERSHIP BY GRADES

Honorary Members	14
Members	4500
Associates	407
Associate-Members	564
Juniors	1446
Total Membership	6931



THE AMERICAN SOCIETY OF
MECHANICAL ENGINEERS

MISCELLANEOUS
INFORMATION
CHARTER, CONSTITUTION
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DECEASED HONORARY MEMBERS

Name	Date of Election	Died
Horatio Allen	1880	1889
Sir Wm. Arrol	1905	1913
Benajmin Baker	1886	1907
Johann Bauschinger	1884	1893
Henry Bessemer	1891	1898
Frederick Bramwell	1884	1904
Gustave Canet	1900	1908
Daniel K. Clark	1882	1896
Rudolph Clausius	1882	1888
John Coode	1889	1892
Peter Cooper	1882	1883
Carl Gustav Patrick de Laval	1912	1913
Rudolph Diesel	1912	1913
James Dredge	1886	1906
V. Dwelshauvers-Dery	1886	1913
John Fritz	1900	1913
F. Grashof	1884	1893
O. Hallauer	1882	1883
Chas. H. Haswell	1905	1907
Gustav Herrmann	1884	1907
G. A. Hirn	1882	1890
Joseph Hirsh	1889	1901
Benjamin Franklin Isherwood	1894	1915
Geo. W. Melville	1910	1912
Chas. T. Porter	1890	1910
Edward J. Reed	1882	1906
Franz Reuleaux	1882	1905
Henri Schneider	1882	1898
C. William Siemens	1882	1883
Henri Tresca	1882	1885
Francis A. Walker	1886	1897
George Westinghouse	1897	1914
Sir William H. White	1900	1913

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Alexander L. Holley, Chairman of the Meeting for Organization of The American Society of Mechanical Engineers.....
Died January 29, 1882

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E. D. Leavitt.....	1883.....	Cambridge, Mass.
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J. F. Holloway.....	1885.....	Died September 1, 1896
Coleman Sellers.....	1886.....	Died December 28, 1907
George H. Babcock.....	1887.....	Died December 16, 1893
Horace See.....	1888.....	Died December 14, 1909
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E. F. C. Davis.....	1895.....	Died August 6, 1895
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Worcester R. Warner.....	1897.....	Cleveland, O.
Charles Wallace Hunt.....	1898.....	Died March 27, 1911
George W. Melville.....	1899.....	Died March 17, 1912
Charles H. Morgan.....	1900.....	Died January 10, 1911
S. T. Wellman.....	1901.....	Cleveland, O.
Edwin Reynolds.....	1902.....	Died February 19, 1909
James M. Dodge.....	1903.....	Died December 4, 1915
Ambrose Swasey.....	1904.....	Cleveland, O.
John R. Freeman.....	1905.....	Providence, R. I.
F. W. Taylor.....	1906.....	Died March 21, 1915
Frederick R. Hutton.....	1907.....	New York, N. Y.
M. L. Holman.....	1908.....	St. Louis, Mo.
Jesse M. Smith.....	1909.....	New York, N. Y.
George Westinghouse.....	1910.....	Died March 12, 1914
E. D. Meier.....	1911.....	Died December 15, 1914
Alex. C. Humphreys.....	1912.....	New York, N. Y.
W. F. M. Goss.....	1913.....	Urbana, Ill.
James Hartness.....	1914.....	Springfield, Vt.
John A. Brashear.....	1915.....	Pittsburgh, Pa.

VICE-PRESIDENTS

Henry Rossiter Worthington.....	April-December, 1880
Coleman Sellers.....	April, 1880—November, 1881
Eckley B. Coxe.....	April, 1880—November, 1881
Quincy A. Gilmore.....	April, 1880—December, 1880
Wm. H. Shock.....	April, 1880—November, 1882
Alexander L. Holley.....	April, 1880—January, 1882

NOTE.—According to the Constitution, Article C 26, the five surviving Past Presidents who last held the office shall be members of the Council, with all the rights, privileges and duties of the other members of the Council.

Francis A. Pratt.....	December, 1880—November, 1881
Theo. N. Ely.....	1881—November, 1882
Washington Jones.....	1881—November, 1882
Wm. P. Trowbridge.....	1881—November, 1883
E. D. Leavitt.....	1881—December, 1882
Chas. E. Emery.....	1881-1883
S. B. Whiting.....	1882-1883
John Fritz.....	1882-1884
Henry Morton.....	1882-1884
Wm. Metcalf.....	1882-1884
A. B. Couch.....	1883-1885
W. R. Eckart.....	1883-1885
J. V. Merrick.....	1883-1885
Chas. W. Copeland.....	1884-1886
Henry R. Towne.....	1884-1886
Coleman Sellers.....	1884-1885
Olin H. Landreth.....	1885-1886
Allan Stirling.....	1885-1887
Horace See.....	1885-1887
Chas. H. Loring.....	1885-1887
Jos. Morgan, Jr.....	1886-1888
Chas. T. Porter.....	1886-1888
Horace S. Smith.....	1886-1888
W. S. G. Baker.....	1887-1889
H. G. Morris.....	1887-1889
C. J. H. Woodbury.....	1887-1889
Thos. J. Borden.....	1888-1890
William Kent.....	1888-1890
Charles B. Richards.....	1888-1890
De Volson Wood.....	1889-1891
Joel Sharp.....	1889-1891
Geo. W. Weeks.....	1889-1891
Stephen W. Baldwin.....	1890-1892
Alex. Gordon.....	1890-1892
Jno. F. Parkhurst.....	1890-1892
George I. Alden.....	1891-1893
E. F. C. Davis.....	1891-1893
Irving M. Scott.....	1891-1893
Charles Wallace Hunt.....	1892-1894
Edwin Reynolds.....	1892-1894
Thos. R. Pickering.....	1892-1894
Percival Roberts, Jr.....	1893-1895
H. J. Small.....	1893-1895
Charles E. Billings.....	1893-1895
Frank H. Ball.....	1894-1896
M. L. Holman.....	1894-1896
Jesse M. Smith.....	1894-1896
Francis W. Dean.....	1895-1897
Charles H. Manning.....	1895-1897
George W. Melville.....	1895-1897
Edwin S. Cramp.....	1896-1898
W. F. Durfee.....	1896-1898
S. T. Wellman.....	1896-1898
Charles M. Jarvis.....	1897-1899
Walter S. Russel.....	1897-1899
John C. Kafer.....	1897-1899
E. D. Meier.....	1898-1900
George R. Stetson.....	1898-1900

B. H. Warren.....	1898-1900
Jesse M. Smith.....	1899-1901
Stevenson Taylor.....	1899-1901
David Townsend.....	1899-1901
James M. Dodge.....	1900-1902
Ambrose Swasey.....	1900-1902
Arthur M. Waitt.....	1900-1902
M. E. Cooley.....	1901-1903
Wilfred Lewis.....	1901-1903
M. P. Higgins.....	1901-1903
James Christie.....	1902-1904
F. H. Daniels.....	1902-1904
John R. Freeman.....	1902-1904
D. S. Jacobus.....	1903-1905
William J. Keep.....	1903-1905
M. L. Holman.....	1903-1905
S. M. Vauclain.....	1904-1906
H. H. Westinghouse.....	1904-1906
Fred. W. Taylor.....	1904-1905
Geo. H. Barrus.....	1905-1906
Walter M. McFarland.....	1905-1907
Robt. C. McKinney.....	1905-1907
Edward N. Trump.....	1905-1907
Philetus W. Gates.....	1906-1908
John W. Lieb, Jr.....	1906-1908
Alex Dow.....	1906-1908
L. P. Breckenridge.....	1907-1909
Fred J. Miller.....	1907-1909
Arthur West.....	1907-1909
Geo. M. Bond.....	1908-1910
R. C. Carpenter.....	1908-1910
F. M. Whyte.....	1908-1910
Chas. Whiting Baker.....	1909-1911
W. F. M. Goss.....	1909-1911
E. D. Meier.....	1909-1910
Alex. C. Humphreys.....	1910-1911
Geo. M. Brill.....	1910-1912
Edwin M. Herr.....	1910-1912
Henry H. Vaughan.....	1910-1912
Wm. F. Durand.....	1911-1913
Ira N. Hollis.....	1911-1913
Thos. B. Stearns.....	1911-1913
I. E. Moulthrop.....	1912-1914
H. G. Stott.....	1912-1914
James Hartness.....	1912-1913
E. B. Katte.....	1913-1914
H. L. Gantt.....	1913-1915
E. E. Keller.....	1913-1915
H. G. Reist.....	1913-1915

MANAGERS

Wm. P. Trowbridge.....	April, 1880—November, 1881
Theo. N. Ely.....	April, 1880—November, 1881
J. C. Hoadley.....	April, 1880—November, 1881
Washington Jones.....	April, 1880—November, 1881
Wm. B. Cogswell.....	April, 1880—November, 1882
Chas. B. Richards.....	April, 1880—November, 1882

S. B. Whiting.....	April, 1880—November, 1882
E. D. Leavitt, Jr.....	April, 1880—November, 1882
J. F. Holloway.....	November, 1880—November, 1883
Geo. W. Fisher.....	November, 1880—November, 1883
Allan Stirling.....	November, 1881—November, 1884
Geo. H. Babcock.....	1881—November, 1884
S. W. Robinson.....	1881—November, 1884
John E. Sweet.....	1882-1883
Robt. W. Hunt.....	1882-1885
Chas. T. Porter.....	1882-1885
C. J. H. Woodbury.....	1882-1885
W. F. Durfee.....	1883-1886
Oberlin Smith.....	1883-1886
C. C. Worthington.....	1883-1886
Wm. Lee Church.....	1884-1887
Wm. Hewitt.....	1884-1887
Chas. H. Morgan.....	1884-1887
Hamilton A. Hill.....	1885-1888
William Kent.....	1885-1888
Saml. T. Wellman.....	1885-1888
John T. Hawkins.....	1886-1889
Fredk. G. Coggin.....	1886-1889
Thos. R. Morgan, Sr.....	1886-1889
Stephen W. Baldwin.....	1887-1890
Fredk. Grinnell.....	1887-1890
Morris Sellers.....	1887-1890
Frank H. Ball.....	1888-1891
Geo. M. Bond.....	1888-1891
Wm. Forsyth.....	1888-1891
Jas. E. Denton.....	1889-1892
Carleton W. Nason.....	1889-1892
H. H. Westinghouse.....	1889-1892
Andrew Fletcher.....	1890-1893
Worcester R. Warner.....	1890-1893
Coleman Sellers, Jr.....	1890-1893
Jas. M. Dodge.....	1891-1894
Robt. Forsyth.....	1891-1894
Jesse M. Smith.....	1891-1894
John Thompson.....	1892-1895
Charles W. Pusey.....	1892-1895
Charles H. Manning.....	1892-1895
John B. Herreshoff.....	1893-1896
Lebbeus B. Miller.....	1893-1896
Walter S. Russel.....	1893-1896
Charles A. Bauer.....	1894-1897
Arthur C. Walworth.....	1894-1897
John C. Kafer.....	1894-1897
Geo. W. Dickie.....	1895-1898
E. D. Meler.....	1895-1898
Norman C. Stiles.....	1895-1898
A. Wells Robinson.....	1896-1899
H. S. Haines.....	1896-1899
G. C. Henning.....	1896-1899
J. B. Stanwood.....	1897-1900
H. H. Suplee.....	1897-1900
Geo. Richmond.....	1897-1900
Edgar C. Felton.....	1898-1901
A. M. Goodale.....	1898-1901

PAST OFFICERS

Richard H. Soule.....	1898-1901
Francis H. Boyer.....	1899-1902
John A. Brashear.....	1899-1902
Alfred H. Raynal.....	1899-1902
W. F. M. Goss.....	1900-1903
D. S. Jacobus.....	1900-1903
De Courcy May.....	1900-1903
Charles H. Corbett.....	1901-1904
H. A. Gillis.....	1901-1904
R. S. Moore.....	1901-1904
Robt. C. McKinney.....	1902-1905
Newell Sanders.....	1902-1905
S. S. Webber.....	1902-1905
John W. Lieb, Jr.....	1903-1906
Asa M. Mattice.....	1903-1906
Geo. I. Rockwood.....	1903-1906
George M. Brill.....	1904-1907
Fred J. Miller.....	1904-1907
Richard H. Rice.....	1904-1907
Walter Laidlaw.....	1905-1908
Fred. M. Prescott.....	1905-1908
Frank G. Tallman.....	1905-1908
G. M. Basford.....	1906-1909
Andrew J. Caldwell.....	1906-1909
Andrew L. Riker.....	1906-1909
Wm. L. Abbott.....	1907-1910
Alex. C. Humphreys.....	1907-1910
Henry G. Stott.....	1907-1910
H. L. Gantt.....	1908-1911
I. E. Moulthrop.....	1908-1911
W. J. Sando.....	1908-1911
J. Sellers Bancroft.....	1909-1911
James Hartness.....	1909-1912
H. G. Reist.....	1909-1912
Henry G. Stott.....	1911-1912
D. F. Crawford.....	1910-1913
Stanley G. Flagg, Jr.....	1910-1913
E. B. Katte.....	1910-1913
Charles J. Davidson.....	1911-1914
Henry Hess.....	1911-1914
George A. Orrok.....	1911-1914
Alfred Noble.....	1912-1914
Morris L. Cooke.....	1914-1915
W. B. Jackson.....	1912-1915
H. M. Leland.....	1912-1915

TREASURERS

Lycurgus B. Moore.....	April, 1880—December, 1881
Chas. W. Copeland.....	December, 1881—November, 1884

SECRETARIES

Sam. S. Webber, Jr.....	Secretary, organization meeting, 1880
Lycurgus B. Moore.....	Acting Secretary, April—November, 1880
Thos. Whiteside Rae.....	November, 1880—March, 1883
Frederick R. Hutton.....	1883-1906
Calvin W. Rice.....	1906-

CALENDAR OF ANNUAL AND SPRING MEETINGS

Place	Date	No.	Class of Meeting	Members Present
New York, N. Y.	Feb. 16, 1880		Preliminary	
Hoboken, N. J.	April 7, 1880		Organization	
New York, N. Y.	Nov. 4 to 5, 1880	1	1st Annual	84
Hartford, Conn.	May 4 to 6, 1881	2	Regular	36
Altoona, Pa.	Aug. 10 to 12, 1881	3	Regular	37
New York, N. Y.	Nov. 3 to 4, 1881	4	2nd Annual	65
Philadelphia, Pa.	April 19 to 21, 1882	5	Regular	96
New York, N. Y.	Nov. 1 to 3, 1882	6	3d Annual	58
Cleveland, O.	June 12 to 14, 1883	7	Regular	77
New York, N. Y.	Oct. 31 to Nov. 3, 1883	8	4th Annual	131
Pittsburgh, Pa.	May 20 to 23, 1884	9	Regular	93
New York, N. Y.	Nov. 5 to 7, 1884	10	5th Annual	129
Atlantic City, N. J.	May 26 to 29, 1885	11	Regular	71
Boston, Mass.	Nov. 10 to 13, 1885	12	6th Annual	130
Chicago, Ill.	May 25 to 28, 1886	13	Regular	121
New York, N. Y.	Nov. 30 to Dec. 3, 1886	14	7th Annual	192
Washington, D. C.	May 31 to June 3, 1887	15	Regular	117
Philadelphia, Pa.	Nov. 28 to Dec. 1, 1887	16	8th Annual	216
Nashville, Tenn.	May 8 to 12, 1888	17	Regular	58
Seranton, Pa.	Oct. 15 to 18, 1888	18	9th Annual	124
Eric, Pa.	May 14 to 17, 1889	19	Regular	83
New York, N. Y.	Nov. 18 to 22, 1889	20	10th Annual	249
Cincinnati, O.	May 13 to 16, 1890	21	Regular	164
Richmond, Va.	Nov. 11 to 14, 1890	22	11th Annual	126
Providence, R. I.	June 16 to 19, 1891	23	Regular	279
New York, N. Y.	Nov. 16 to 19, 1891	24	12th Annual	298
San Francisco, Cal.	May 16 to 19, 1892	25	Regular	54
New York, N. Y.	Nov. 29 to Dec. 2, 1892	26	13th Annual	294
Chicago, Ill.	July 31 to Aug. 5, 1893	27	Regular	283
New York, N. Y.	Dec. 4 to 8, 1893	28	14th Annual	268
Montreal, Canada	June 5 to 8, 1894	29	Regular	133
New York, N. Y.	Dec. 3 to 7, 1894	30	15th Annual	383
Detroit, Mich.	June 25 to 28, 1895	31	Regular	132
New York, N. Y.	Dec. 2 to 6, 1895	32	16th Annual	346
St. Louis, Mo.	May 19 to 22, 1896	33	Regular	92
New York, N. Y.	Dec. 1 to 4, 1896	34	17th Annual	391
Hartford, Conn.	May 25 to 28, 1897	35	Regular	205
New York, N. Y.	Nov. 30 to Dec. 3, 1897	36	18th Annual	378
Niagara Falls, N. Y.	May 31 to June 3, 1898	37	Regular	137
New York, N. Y.	Nov. 29 to Dec. 2, 1898	38	19th Annual	351
Washington, D. C.	May 9 to 12, 1899	39	Regular	274
New York, N. Y.	Dec. 5 to 8, 1899	40	20th Annual	469
Cincinnati, O.	May 15 to 18, 1900	41	Regular	144
New York, N. Y.	Dec. 4 to 7, 1900	42	21st Annual	467
Milwaukee, Wis.	May 28 to 31, 1901	43	Regular	156
New York, N. Y.	Dec. 3 to 6, 1901	44	22d Annual	519
Boston, Mass.	May 27 to 30, 1902	45	Regular	375
New York, N. Y.	Dec. 2 to 5, 1902	46	23d Annual	474
Saratoga, N. Y.	June 23 to 26, 1903	47	Regular	315
New York, N. Y.	Dec. 1 to 4, 1903	48	24th Annual	538
Chicago, Ill.	May 31 to June 4, 1904	49	Regular	350
New York, N. Y.	Dec. 6 to 9, 1904	50	25th Annual	542
Seranton, Pa.	June 6 to 9, 1905	51	Regular	121
New York, N. Y.	Dec. 5 to 8, 1905	52	26th Annual	700
Chattanooga, Tenn.	May 1 to 4, 1906	53	Regular	212
New York, N. Y.	Dec. 4 to 7, 1906	54	27th Annual	735
Indianapolis, Ind.	May 28 to 31, 1907	55	Regular	296

Place	Date	No.	Class of Meeting	Members Present
New York, N. Y.	Dec. 3 to 6, 1907	56	28th Annual	699
Detroit, Mich.	June 23 to 26, 1908	57	Regular	269
New York, N. Y.	Dec. 1 to 4, 1908	58	29th Annual	738
Washington, D. C.	May 4 to 7, 1909	59	Regular	276
New York, N. Y.	Dec. 7 to 10; 1909	60	30th Annual	628
Atlantic City, N. J.	May 31 to June 3, 1910	61	Regular	135
New York, N. Y.	Dec. 6 to 9, 1910	62	31st Annual	633
Pittsburgh, Pa.	May 30 to June 2, 1911	63	Regular	305
New York, N. Y.	Dec. 5 to 8, 1911	64	32d Annual	687
Cleveland, O.	May 28 to 31, 1912	65	Regular	221
New York, N. Y.	Dec. 3 to 6, 1912	66	33d Annual	562
Baltimore, Md.	May 20 to 23, 1913	67	Regular	142
New York, N. Y.	Dec. 2 to 5, 1913	68	34th Annual	778
St. Paul-Minneapolis	June 16 to 19, 1914	69	Regular	200
New York, N. Y.	Dec. 1 to 4, 1914	70	35th Annual	821
Buffalo, N. Y.	June 22 to 25, 1915	71	Regular	223
New York, N. Y.	Dec. 7 to 10, 1915	72	36th Annual	813

DEPOSITORIES FOR TRANSACTIONS

- Agricultural and Mechanical College, College Station, Tex.
Altoona Mechanics Library, Altoona, Pa.
American Society of Civil Engineers, New York, N. Y.
Armour Institute of Technology, Chicago, Ill.
Atlantic Works, East Boston, Mass.
Boston Public Library, Boston, Mass.
Brooklyn Public Library, Brooklyn, N. Y.
Brown & Sharpe Mfg. Co., Providence, R. I.
Brown University Library, Providence, R. I.
Cambria Library Association, Johnstown, Pa.
Carnegie Free Library, Allegheny, Pa.
Case School of Applied Science, Cleveland, O.
Cleveland Public Library, Cleveland, O.
College of Hawaii, Honolulu, Hawaii.
Colorado School of Mines, Golden, Colo.
Commonwealth Edison Co., Chicago, Ill.
Cooper Union, New York, N. Y.
Cornell University, Ithaca, N. Y.
Detroit Public Library, Detroit, Mich.
Free Library of Philadelphia, Philadelphia, Pa.
Free Public Library, East Orange, N. J.
Free Public Library, New Haven, Conn.
Free Public Library, Trenton, N. J.
Grand Rapids Public Library, Grand Rapids, Mich.
Grosvenor Library, Buffalo, N. Y.
Hartford Public Library, Hartford, Conn.
Harvard University, Cambridge, Mass.
Iowa State College, Ames, Ia.
Iowa State Library, Des Moines, Ia.
John Crerar Library, Chicago, Ill.
Johns Hopkins University, Baltimore, Md.
Kansas City Public Library, Kansas City, Mo.
Kansas State Agricultural College, Manhattan, Kan.
Leland Stanford Jr. University, Palo Alto, Cal.
Lewis Institute, Chicago, Ill.
Library Association of Portland, Portland, Ore.
Library of Congress, Washington, D. C.
Library of Hawaii, Honolulu, Hawaii.
Louisiana State University, Hill Memorial Library, Baton Rouge, La.
Lowell City Library, Lowell, Mass.
Lowell Textile School, Lowell, Mass.
McGill University, Montreal, Canada.
Massachusetts Institute of Technology, Boston, Mass.
Master Car Builders Association, Chicago, Ill.
Mechanics-Mercantile Library, San Francisco, Cal.
Michigan Agricultural College, Lansing, Mich.
Michigan School of Mines, Houghton, Mich.
Montana State College of Agricultural and Mechanical Arts, Bozeman, Mont.
Municipal School of Technology, Manchester, England.
Municipal University of Akron, Akron, O.
New Hampshire College of Agriculture and Mechanic Arts, Durham, N. H.

- New Hampshire State Library, Concord, N. H.
 New Mexico College of Agricultural and Mechanical Arts, Mesilla Park,
 New Mex.
 New York Public Library, New York, N. Y.
 New York State Library, Albany, N. Y.
 Newark Technical School, Newark, N. J.
 Northwestern University, Evanston, Ill.
 Ohio State University, Columbus, O.
 Omaha Public Library and Museum, Omaha, Neb.
 Oregon Agricultural College, Corvallis, Ore.
 Patent Office Library, London, England.
 Pennsylvania State College, State College, Pa.
 Plainfield Public Library, Plainfield, N. J.
 Polytechnic Institute of Brooklyn, Brooklyn, N. Y.
 Pratt Institute Free Library, Brooklyn, N. Y.
 Princeton University, Princeton, N. J.
 Providence Public Library, Providence, R. I.
 Public Library of Cincinnati, Cincinnati, O.
 Public Library, Fort Wayne, Ind.
 Public Library, Los Angeles, Cal.
 Public Library, Schenectady, N. Y.
 Purdue University, Lafayette, Ind.
 Rice Institute, Houston, Tex.
 Rose Polytechnic Institute, Terre Haute, Ind.
 Royal Patent Office, Berlin, Germany.
 Rutgers College, New Brunswick, N. J.
 St. Louis Mercantile Library Association, St. Louis, Mo.
 St. Louis Public Library, St. Louis, Mo.
 Seymour Library, Auburn, N. Y.
 Sheffield Scientific School, New Haven, Conn.
 Smithsonian Institution, U. S. National Museum, Washington, D. C.
 State College of Washington, Pullman, Wash.
 State University of Iowa, Iowa City, Ia.
 State University of Kentucky, Lexington, Ky.
 State University of North Dakota, University, N. D.
 Steel Works Club, Joliet, Ill.
 Stevens Institute of Technology, Hoboken, N. J.
 Syracuse Public Library, Syracuse, N. Y.
 Toledo Public Library, Toledo, O.
 Tufts College, Tufts College, Mass.
 Tulane University, New Orleans, La.
 United States Bureau of Standards, Department of Commerce, Wash-
 ington, D. C.
 United States Geological Survey, Washington, D. C.
 United States Naval Experiment Station, Annapolis, Md.
 University Library, Edinburgh, Scotland.
 University of Arizona, Tucson, Ariz.
 University of Cincinnati, Cincinnati, O.
 University of Idaho, Moscow, Idaho.
 University of Illinois, Urbana, Ill.
 University of Kansas, Lawrence, Kan.
 University of Leeds, Leeds, England.
 University of Maine, Orono, Me.
 University of Michigan, Ann Arbor, Mich.
 University of Minnesota, Minneapolis, Minn.
 University of Missouri, Columbia, Mo.
 University of Missouri, Rolla, Mo.
 University of Nebraska, Lincoln, Neb.

University of Pennsylvania, Philadelphia, Pa.
University of Tennessee, Knoxville, Tenn.
University of Vermont, Burlington, Vt.
University of Washington, Seattle, Wash.
University of Wisconsin, Madison, Wis.
University of Wyoming, Laramie, Wyo.
Vanderbilt University, Nashville, Tenn.
Verein deutscher Eisenhuettenleute, Düsseldorf, Germany.
Verein deutscher Ingenieure, Berlin, Germany.
Washington Steel and Ordnance Co., Washington, D. C.
Washington University, St. Louis, Mo.
West Virginia University, Morgantown, W. Va.
Western Gas Construction Co., Fort Wayne, Ind.
Western Society of Engineers, Chicago, Ill.
Wilmington Institute, Wilmington, Del.
Worcester Free Public Library, Worcester, Mass.
Worcester Polytechnic Institute, Worcester, Mass.
Youngstown Sheet and Tube Co., Youngstown, O.

CHARTER

CERTIFICATE OF INCORPORATION OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS AND THE MECHANICAL ENGINEERS' LIBRARY ASSOCIATION, TOGETHER WITH THE ORDER OF THE SUPREME COURT FOR THEIR CONSOLIDATION.

ORDER FOR CONSOLIDATION

At a Special Term, Part II, of the New York Supreme Court, held in and for the City and County of New York, in the County Court House, Borough of Manhattan, City of New York, on the 17th day of October, 1907.

PRESENT:

HONORABLE JAMES A. BLANCHARD,

Justice

IN THE MATTER OF THE PETITION
OF
THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS AND OF THE MECHANICAL ENGINEERS' LIBRARY ASSOCIATION, FOR AN ORDER CONSOLIDATING THEM INTO ONE CORPORATION.

Upon reading and filing the annexed petition of The American Society of Mechanical Engineers, verified on the 15th day of October, 1907; and the petition of The Mechanical Engineers' Library Association, verified the 15th day of October, 1907; and the agreement of consolidation, entered into between The American Society of Mechanical Engineers and The Mechanical Engineers' Library Association, on the 16th day of September, 1907; and the certificate of approval by the Chairman and Clerk of a meeting of the Fellows of The Mechanical Engineers' Library Association, duly acknowledged on the 15th day of October, 1907; and the certificate of approval by the Chairman and Clerk of a meeting of the Members of The American Society of Mechanical Engineers, duly acknowledged on the 15th day of October, 1907;

And it appearing to the satisfaction of the Court from the aforesaid papers that The American Society of Mechanical Engineers and The Mechanical Engineers' Library Association are membership corporations, incorporated under the laws of the State of New York, for kindred purposes, being purposes for which a corporation may be formed under the Membership Corporations' Law of the State of New York; and that the said corporations have heretofore duly entered into an agreement for the consolidation of said corporations, which said agreement sets forth the terms and conditions of consolidation, the name of the proposed corporation, the number of its Directors, the time of the annual

NOTE.—On December 15, 1910, the Secretary of State of the State of New York filed and recorded a supplemental certificate of incorporation which provides that the annual meeting and annual election of officers shall be held at such time and in such manner as shall be provided in the Constitution and By-Laws.

election, and the names of the persons to be Directors until the first annual meeting;

That each of the said corporations has duly petitioned the Supreme Court for an order consolidating the two corporations, which said petition sets forth the agreement for consolidation, and a statement of all the property and liabilities, and the amount and sources of its annual income of each of said corporations; and that before the presentation of the said petition to this Court the agreement and the petition were approved by more than three-fourths of the votes legally cast at a meeting of said corporation, separately and specially called for that purpose, which approval, duly verified by the Chairman and Clerk of such meeting, is duly annexed to said petition;

And the Court being satisfied that the said petition should be granted: NOW, THEREFORE, Upon motion of Porter and Barnes, attorneys for the petitioners;

IT IS HEREBY ORDERED, That The American Society of Mechanical Engineers and The Mechanical Engineers' Library Association, as they now exist, be and the same hereby are, in accordance with Section VII, Article I of the Membership Corporations' Law of the State of New York, consolidated into one corporation, upon the following terms and conditions, to-wit—

That the two corporations be consolidated into one corporation; that all the property now owned by either of the two corporations be owned by the one consolidated corporation; that all the liabilities of either of the two corporations shall be assumed and paid by the one consolidated corporation; that the members of each of the two corporations shall become, without the payment of any initiation fees, or other dues, members in equal standing in the one consolidated corporation; that the consolidated corporation shall be governed by the Constitution, and By-Laws and Rules of The American Society of Mechanical Engineers, as the same exist at the time of the signing of this order; that the name of the new consolidated corporation shall be "THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS"; that the number of the Directors of the new corporation shall be twenty-two; that the annual election shall be held on the first Tuesday of December of each year; that the names of the persons to be Directors of the corporation until the first annual meeting shall be:

FREDERICK R. HUTTON
 WALTER M. McFARLAND
 EDWARD N. TRUMP
 ROBERT C. McKINNEY
 ALEX DOW
 P. W. GATES
 J. W. LIEB, JR.
 WM. H. WILEY
 A. L. RIKER
 GEO. M. BRILL
 FRED J. MILLER

RICHARD H. RICE
 WALTER LAIDLAW
 FRANK G. TALLMAN
 FREDERICK M. PRESCOTT
 A. J. CALDWELL
 G. M. BASFORD
 F. W. TAYLOR
 JOHN R. FREEMAN
 AMBROSE SWASEY
 JAMES M. DODGE
 EDWIN REYNOLDS

ENTER

J. A. BLANCHARD,
 Justice of the Supreme Court

CONSTITUTION

NOTE.—The rules of the Society adopted in 1880 were in force until 1884, when they received general revision by a Committee whose report, distributed by letter-ballot, was adopted November 5, 1884. In December, 1894, a similar extensive revision was made under the direction of the Council. In December, 1903, new Constitution, By-Laws and Rules, formulated by a special committee, were adopted and went into effect. These have been amended from time to time. The Constitution was further amended by a letter-ballot on March 3, 1913.

NAME, OBJECT, AND GOVERNMENT

C 1 The title of this society is "The American Society of Mechanical Engineers."

C 2 The object of the Society is to promote the Arts and Sciences connected with Engineering and Mechanical Construction. The principal means for this purpose shall be the holding of meetings for the reading and discussion of professional papers, and for social intercourse; the publication and distribution of its papers and discussions; and the maintenance of an Engineering Library.

C 3 The Society shall be governed by this Constitution and by By-Laws and Rules in harmony therewith.

C 4 The Society was organized as a Corporation under the laws of the State of New York, April 7, 1880. Its offices shall be located in the City of New York.

MEMBERSHIP

C 5 Persons connected with the Arts and Sciences relating to Engineering or Mechanical Construction may be eligible for admission into the Society.

C 6 The membership of the Society shall consist of Honorary Members, Members, Associates, Associate-Members and Juniors. Honorary Members, Members, Associates and Associate-Members are entitled to vote and to hold office. Juniors are not entitled to vote nor to hold office, but are entitled to all the other privileges of membership.

C 7 Honorary Members, Members, Associates and Associate-Members are entitled to vote on all questions before any meeting of the Society, in person, or by proxy given to a person entitled to vote. A proxy shall not be valid for a greater time than for six months.

C 8 An Honorary Member shall be a person of acknowledged professional eminence. The number of Honorary Members shall not exceed 25 at any time.

C 9 A Member shall be an Engineer or Teacher of Applied Science of thirty-two years of age, or over, and shall have been in the active practice of his profession for at least ten years and in responsible charge of important work for five years, and shall be qualified to design as well as to direct engineering work. Fulfilling the duties of a professor of Engineering who is in charge of a department in a college or school of accepted standing shall be taken as an equivalent to an equal number of years of active practice. Graduation from a school of engineering of recognized standing shall be considered as equivalent to two years of active practice.

C 10 An Associate shall be thirty years of age or over. He need not be an Engineer, but must have been so connected with some branch of Engineering or Science, or the Arts, or Industries, that the Council will consider him qualified to co-operate with Engineers in the advancement of professional knowledge.

C 11 An Associate-Member shall be a professional engineer not less than twenty-seven years of age, who shall have been in the active practice of his profession for at least six years, and who shall have had responsible charge of work as principal or assistant for at least one year. Graduation from a school of engineering of recognized reputation shall be considered as equivalent to two years' active practice.

C 12 A Junior shall be twenty-one years of age or over. He must have had such engineering experience as will enable him to fill a subordinate position in engineering work, or he must be a graduate of an engineering school.

C 13 The rights and privileges of every Honorary Member, Member, Associate, Associate-Member and Junior shall be personal to himself, and shall not be transferable or transmissible by his own act or by operation of law.

ADMISSION

C 14 Honorary Members shall be nominated by at least ten members of the Society. The grounds upon which the nomination is made shall be presented to the Council in writing.

C 15 All applications for membership to the grades of Member, Associate, Associate-Member or Junior shall be presented to the Council, which shall consider and act upon each application, assigning each approved applicant to the grade of membership to which in the judgment of the Council, his qualifications entitle him. The name of each candidate thus approved by the Council shall, unless objection is made by the applicant, be submitted to all the members of the Council for election, by means of a letter-ballot.

C 16 Any person desiring to change his grade of membership shall make application to the Council in the same manner as is required in the case of a new applicant.

C 17 Election to membership shall be by sealed letter-ballot of the council as the By-Laws shall provide. Fifteen affirmative votes shall be required for the election of a candidate to membership in any grade. One negative vote shall defeat an election to Honorary Membership. Two negative votes shall defeat an election to any other grade.

C 18 Each person elected, excepting Honorary Members, shall subscribe to this Constitution, and shall pay the initiation fee before he can be entitled to the rights and privileges of membership. If such person does not comply with this requirement within six months after notice of his election, he will be deemed to have declined election. The Council may, thereupon, declare his election void.

INITIATION FEES AND DUES

C 19 The initiation fee for membership in each grade shall be as follows:

For Member	\$25.00
For Associate	25.00
For Associate-Member	25.00
For Junior	15.00

C 20 A Junior, on promotion to any other grade of membership, shall pay an additional fee of \$10.

C 21 The annual dues for membership in each grade shall be as follows:

For Member	\$15.00
For Associate	15.00
For Associate-Member	15.00
For Junior	10.00

for the first six years of his membership and thereafter the same as for an Associate-Member.

C 22 The Council may, in its discretion, permit any Member, Associate or Associate-Member to become a Life Member in the same grade, by the payment at one time of an amount sufficient to purchase from the Equitable Life Assurance Society of New York, an annuity on the life of a person of the age of the applicant equal to the annual dues in his grade. Such Life Member shall not be liable thereafter for annual dues.

C 23 The Council shall have the power, by letter-ballot, to admit to Life-Membership, without the payment of a life membership fee, any person who, for a long term of years, has been a member, an Associate or an Associate-Member when, for special reasons, such procedure would in its judgment, promote the best interests of the Society, provided that notice of such proposed action shall have been given at a previous meeting to the Council. One dissenting vote shall defeat such admission.

SUSPENSIONS AND EXPULSIONS

C 24 A person in any grade of membership who shall leave his annual dues unpaid for one year shall not receive the volume of Transactions until such arrears are paid. A person who shall leave his dues unpaid for two years shall, in the discretion of the Council, have his name stricken from the roll of membership, and shall cease to have any further rights as such.

C 25 The Council may refuse to receive the dues of any member of any grade, who shall have been adjudged by the Council to have violated the Constitution or By-Laws of the Society, or who, in the opinion of the Council by a two-thirds vote, shall have been guilty of conduct rendering him unfit to continue in its membership; and the Council may expel such person and remove his name from the list of members.

THE COUNCIL

C 26 The affairs of the Society shall be managed by a board of directors chosen from among its Members, Associates and Associate-Members, which shall be styled "The Council." The Council shall consist of the President of the Society, who shall be the presiding officer, six Vice-Presidents, nine Managers, the Treasurer, and the five surviving Past-Presidents who have last held office. Five members of the Council shall constitute a quorum for the transaction of business. The Secretary may take part in the deliberations of the Council, but shall not have a vote therein. The Chairman of the Finance Committee shall attend the meetings of the Council and take part in the discussion of financial questions, but shall not have a vote.

C 27 The Council thus constituted shall be the legal trustee of the Society. All gifts or bequests not designated for a specific purpose shall

be invested by the Council, and only the income therefrom may be used for current expenses.

C 28 Should a vacancy occur in the Council, or in any elective office except the Presidency, through death, resignation or other cause, the Council may elect a Member, Associate or Associate-Member to fill the vacancy until the next annual election.

C 29 The Council shall regulate its own proceedings, and may by resolution delegate specific powers to an Executive Committee or to any one or more members of the Council. No act of the Executive Committee or of a delegate shall be binding until it has been approved by a resolution of the Council.

C 30 The Council shall present at the Annual Meeting of the Society a report verified by the President or Treasurer or by a majority of the members of the Council, showing the whole amount of real and personal property owned by the Society, where located, and where and how invested, and the amount and nature of the property acquired during the year immediately preceding the date of the report, and the manner of the acquisition; the amount applied, appropriated or expended during the year immediately preceding such date, and the purposes, objects or persons to or for which such applications, appropriations, or expenditures have been made; also the names and places of residence of the persons who have been admitted into membership in the Society during the last year, which report shall be filed with the records of the Society, and an abstract thereof shall be entered in the minutes of the proceedings of the Annual Meeting.

C 31 An act of the Council, which shall have received the expressed or implied sanction of the membership at the next subsequent meeting of the Society, shall be deemed to be the act of the Society, and shall not afterwards be impeached by any member.

C 32 The Council may, by a two-thirds vote of the members present, declare any elective office vacant, on the failure of its incumbent for one year, from inability or otherwise, to attend the Council meetings, or to perform the duties of his office, and shall thereupon appoint a Member, Associate or Associate-Member to fill the vacancy until the next Annual Meeting. The said appointment shall not render the appointee ineligible to election to any office.

C 33 At each Annual Meeting there shall be elected from among the Members, Associates and Associate-Members:

A President, to hold office for one year.

Three Vice-Presidents, each to hold office for two years.

Three Managers, each to hold office for three years.

A Treasurer, to hold office for one year.

C 34 The election of officers shall be by sealed letter-ballot, as the By-Laws shall provide.

C 35 The term of all elective officers shall begin on the adjournment of the Annual Meeting of the Society. Officers shall continue in their respective offices until their successors have been elected and have accepted their offices.

C 36 A President, Vice-President, or Manager shall not be eligible for immediate re-election to the same office at the expiration of the term for which he was elected.

C 37 The Council, at its first meeting after the Annual Meeting of the Society, shall appoint a person of the grade of Member to serve

as Secretary of the Society for one year subject to removal for cause by an affirmative vote of members of the Council, at any time after one month's written notice has been given him to show cause why he should not be removed, and he has been heard in his own defense, if he so desires. The Secretary shall receive a salary which shall be fixed by the Council at the time of his appointment.

The Council may also in its discretion appoint a person of the grade of Member to be an Honorary Secretary of the Society for a term not to exceed one year, but he may be reappointed from year to year. He shall perform such duties as may be assigned to him by the Council which are in conformity with the Constitution and By-Laws, and with or without compensation as the Council may direct.

C 38 The President, Secretary, and Treasurer shall perform the duties legally or customarily attaching to their respective offices under the laws of the State of New York, and such other duties as may be required of them by the Council.

C 39 A vacancy in the office of President shall be filled by the Vice-President, who is senior by age.

MEETINGS

C 40 The Society shall hold two meetings in each year. The Annual Meeting shall begin in New York City on the first Tuesday in December, and a Semi-Annual Meeting shall be held at such time and place as the Council may appoint. Fifty persons entitled to vote shall constitute a quorum for the transaction of business.

C 41 Special meetings of the Society may be called at any time at the discretion of the Council, or shall be called by the President upon the written request of fifty persons entitled to vote, the notices for such meetings to state the business for which such meeting is called and no other business shall be entertained or transacted at that meeting.

C 42 The expenses of all meetings of the Society and of any group or section thereof, shall be arranged in accordance with such By-Laws and Rules as the Council may from time to time adopt, provided, however, that nothing in this section shall be construed to authorize the Council to make any increase in the annual dues of members in any grade.

C 43 Any appropriation recommended by the Society at a meeting, shall not take effect until it has been approved by the Council.

C 44 Every question which shall come before a meeting of the Society or of the Council or a Committee, shall be decided by a majority of the votes cast, unless otherwise provided in this Constitution or the By-Laws or the Laws of the State of New York. The Council may order the submission of any question to the membership for discussion by letter-ballot. Any meeting of the Society at which a quorum is present, may order the submission of any question to the membership for discussion by letter-ballot.

STANDING COMMITTEES

C 45 The Standing Committees of the Society to be appointed by the President shall be:

- Finance Committee.
- Committee on Meetings.

Publication Committee.
 Membership Committee.
 Library Committee.
 House Committee.
 Research Committee.
 Public Relations Committee.
 Committee on Constitution and By-Laws.
 Committee on Standardization.

C 46 There shall be a John Fritz Medal Committee of four members appointed as provided in the By-Laws.

C 47 The Annual Committees shall be :

An Executive Committee, appointed by the Council ;
 A Nominating Committee, appointed by the President ;
 Tellers as required by the By-Laws, appointed by the President.

C 48 Special Nominating Committee :

Twenty or more persons entitled to vote may constitute themselves a Special Nominating Committee, with the same powers as the Annual Nominating Committee.

C 49 Professional Committees :

The Council shall have power to appoint, upon a recommendation of the Society at a general meeting, or upon its own initiative, such Professional Committees as it may deem desirable, to investigate, consider, and report upon subjects of engineering interest. Reports of such committees may be accepted by the Society and printed in the Transactions, but shall not be approved or adopted as the action of the Society. Any proposed expenses of such committees must be authorized by the Council before they are incurred.

C 50 Each committee shall perform the duties required of it in the By-Laws, or assigned to it by the Council. The Secretary of the Society shall be the Secretary of each of the Standing Committees.

C 51 The Council may at any time, in its own discretion, remove any or all members of any committee, except a Nominating Committee; and the vacancy arising from this or from any other cause, shall be filled by appointment by the President, except a vacancy in the Executive Committee, which shall be filled by the Council.

SECTIONS OF THE SOCIETY

C 52 The Council may, in its discretion, authorize the organization of sections or groups of any or all grades of membership, for professional or scientific purposes which are in harmony with the Constitution and By-Laws of this Society. Such sections or groups may in the discretion of the Council, be geographical or professional, and shall have such powers, and act under such rules and regulations as the Council may from time to time prescribe.

TRANSACTIONS

C 53 The official record of technical papers and discussions shall be known as the Transactions of the Society, and shall be published under the direction of the Council. There may be included therein the annual report of the Council, reports of committees, and business records of the Society.

C 54 The Society shall claim no exclusive copyright to any papers read at its meetings, or any reports or discussions thereon, except in the matter of their official publication under the Society's imprint as its Transactions. The policy of the Society shall be to give the professional and scientific papers read before it the widest circulation possible, with the view of making the work of the Society known, encouraging Engineering progress, and extending the professional reputation of its members.

C 55 The Society shall not be responsible for statements or opinions advanced in papers or in discussions at its meetings. Matters relating to politics or purely to trade shall not be discussed at a meeting of the Society, nor be included in the Transactions.

C 56 The Society shall not approve or adopt any standard or formula, or approve any engineering or commercial enterprise. It shall not allow its imprint or name to be used in any commercial work or business.

AMENDMENTS TO THE CONSTITUTION

C 57 At any Semi-Annual Meeting of the Society any person entitled to vote may propose in writing an amendment to this Constitution. Such proposed amendment shall not be voted at that meeting, but shall be open to discussion and to such modification as may be accepted by the proposer. The proposed amendment shall be mailed in printed form by the Secretary to each person entitled to vote, at least sixty days previous to the next Annual Meeting, accompanied by comment by the Council, if it so elects. At that Annual Meeting such proposed amendment shall be presented for discussion and final amendment, and shall subsequently be submitted to all persons entitled to vote, provided that twenty votes are cast in favor of such submission. The final vote on adoption shall be by sealed letter-ballot, closing at 12 o'clock noon, on the first Monday of March following.

C 58 The letter-ballot, accompanied by the text of the proposed amendment, shall be mailed by the Secretary to each person entitled to vote, at least thirty days previous to the closure of the voting. The ballots shall be voted, canvassed, and announced as provided in the By-Laws. The adoption of the amendment shall be decided by a majority of the votes cast. An amendment shall take effect on the announcement of its adoption by the Presiding Officer of the Semi-Annual Meeting next following the closure of the vote.

AMENDMENTS TO BY-LAWS AND RULES

C 59 For the further ordering of the affairs of the Society, the Council may, by a two-thirds vote of its members present, amend the By-Laws in harmony with this Constitution, provided that a written notice of such proposed amendment shall have been given at the previous regular meeting of the Council; and provided further that the Secretary shall have mailed to each member of the Council a copy of such proposed amendment, at least thirty days in advance of the meeting of the Council at which action is to be taken. The amendment shall take effect immediately on its passage by the Council. The Secretary shall at once mail a copy of such amendment to the members of all grades.

C 60 The Council may, by a majority vote of the members present at any meeting, establish, amend, or annul Rules for the conduct of the

business affairs of the Society; for the ordering and conduct of its professional or business meetings, and for the guidance of its committees in their work and reports; provided that such rules are in harmony with the Constitution and By-Laws of the Society.

CONSTITUTION GOES INTO EFFECT

C 61 This Constitution shall supersede all previous Rules of the Society, and shall go into effect on the announcement by the Presiding Officer of its adoption.

BY-LAWS

CANDIDATES FOR MEMBERSHIP

B 1 A candidate for admission to the Society as a Member, Associate, or Associate-Member must make application on a form approved by the Council, upon which he shall write a statement giving a complete account of his qualifications and engineering experience, and an agreement that he will, if elected, conform to the Constitution, By-Laws and Rules of the Society. He must refer to at least five Members, Associates, or Associate-Members to whom he is personally known.

B 2 A candidate for admission to the Society as a Junior must make application in the same manner as provided for Members, except that he must refer to not less than three Members, Associates, or Associate-Members to whom he is personally known.

B 3 Applications for membership from candidates who may be so situated as not to be personally known to the necessary number of members of the Society may be recommended by the Membership Committee for ballot, after sufficient evidence has been secured to show that in its opinion the applicant is worthy of admission to membership. Such applicants for membership may refer to officers or voting members of other engineering societies of like standing.

B 4 References shall not be required of candidates for Honorary Membership.

B 5 The references for each candidate for admission to the Society shall be requested to make a confidential communication to the Membership Committee, setting forth in detail such information, personally known to the referee, as shall enable the Council to arrive at a proper estimate of eligibility of the candidate for admission to the Society.

ELECTION OF MEMBERS

B 6 The Secretary shall mail to each member of the Council a ballot stating the names and respective grades of the candidates for membership in the Society which have been approved by the Membership Committee after having been duly posted in The Journal. The voter shall prepare his ballot by crossing out the name of any candidate rejected by him, and shall enclose said ballot in an envelope and seal the same; he shall then enclose said envelope in a second envelope marked "Ballot for Members," and seal the same, and he shall then write his own name thereon for identification. A ballot without the autographic endorsement of the voter written on the outer envelope is defective, and shall be rejected.

B 7 The Secretary shall count the ballots cast by the Council for election of new members, notify the applicants of their election, and regularly report the results of the ballots at the Council meeting next following such election. The names of applicants who are not elected shall neither be announced nor recorded in the Transactions.

B 8 Election to Honorary Membership shall be by letter-ballot of the Council. A notice of such proposed election shall be mailed by the

Secretary to each member of the Council at least sixty days in advance of the date set for the closure of such election.

B 9 Each person elected to membership, except an Honorary Member, must subscribe to the Constitution, By-Laws and Rules of the Society and pay the initiation fee before he can receive a certificate of membership in the Society. Resignations from membership shall be presented to the Council for action.

ELECTION OF OFFICERS

B 10 The Secretary shall mail on or before the last Thursday in October of each year to each member entitled to vote a ballot stating the names of the candidates for the several offices falling vacant, and the time of the closure of the voting. The voter shall prepare his ballot by crossing out the name of any candidate or candidates rejected by him, and may write in the name of any eligible member of the Society. The voter shall enclose said ballot in an envelope and seal the same. He shall then enclose the sealed envelope in a second envelope marked "Ballot for Officers," seal the same, and shall then write his name thereon for identification. The ballot thus prepared and enclosed shall be mailed or delivered unopened to the Tellers of Election. The Secretary shall certify to the competency and signature of all voters. A ballot without the autographic endorsement of the voter written on the outside envelope is defective, and shall be rejected by the Tellers of Election. A ballot which contains more names than there are offices to be filled is thereby defective, and shall be rejected by the Tellers.

B 11 The voting for the election of officers shall close at ten o'clock in the forenoon on the first Tuesday in December in each year. The Tellers shall not receive any ballot after the stated time for the closure of the voting. The Tellers of Election shall first open and destroy the outer envelopes and shall then open the inner ones, canvass the ballots and certify the result to the President or Presiding Officer at the first session of the current meeting of the Society. The Presiding Officer shall then announce the candidates having the greatest number of votes for their respective offices, and declare them elected for the ensuing year.

B 12 The names of the candidates proposed by the Nominating Committee or Committees, and the respective offices for which they are candidates, shall be printed in separate lists on the same ballot sheet, each list of candidates to be printed under the names of the members of the particular committee which proposed it.

B 13 In case of a tie in the vote for any officer, the President or, in his absence, the Presiding Officer, shall cast the deciding vote.

INITIATION FEES AND DUES

B 14 The initiation fee and that part of the annual dues from the first of the month following the date of election to the first of October following, shall be due and payable on the first day of the month following the date of election of a Member, Associate, Associate-Member or Junior. Upon the payment of this amount, the person elected shall be entitled to the rights and privileges of membership in the grade to which he is elected. The annual dues for each ensuing year shall be due and payable in advance, on the first day of October in each

year thereafter. No member shall be in arrears in payment of dues until the dues shall be unpaid for one year.

B 15 A Member, Associate, Associate-Member or Junior in arrears for dues for one year, on the first day of October previous to the Annual Meeting, shall not be entitled to vote, or to receive the Transactions or the publications issued by the Society thereafter until such dues have been paid. Should the arrears for dues or otherwise be for more than two years, the name of such person shall be presented to the Council for such action as it deems advisable under C 24. Should the right to vote, or to receive the publications of the Society be questioned, the books of the Society shall be conclusive evidence.

B 16 The Council at any meeting may, in its discretion, permanently remit the dues of any Member of the Society who has paid thirty years' dues, or who shall have reached the age of seventy years after having paid twenty-five years' dues, provided that notice of such proposed action shall have been given at a previous meeting of the Council and the Committee on Membership shall have concurred in recommending that this action be taken. The Council may, in its discretion, restore to membership any person dropped from the rolls for non-payment of dues, or otherwise, upon such terms and conditions as it may at the time deem best for the interests of the Society.

FINANCIAL ADMINISTRATION

B 17 The Council, at its first meeting in each fiscal year, shall consider the recommendations of the Finance Committee concerning the expenditure necessary for the work of the Society during that year. The apportioning of the work of the Society among the various Standing and other Committees shall be on a basis approved by the Council and in harmony with the Constitution and By-Laws. The appropriations approved by the Council, or so much thereof as may be required for the work of the Society, shall be expended by the Secretary acting as Business Manager, under the direction of the various Committees of the Society, and all bills against the Society for such expenditure shall be certified by the Secretary and shall then be sent to the Finance Committee for audit. Money shall not be paid out by any officer or employee of the Society except upon vouchers duly audited by the Finance Committee.

THE JOURNAL

B 18 The Council shall institute a monthly publication to be called "The Journal," which shall be under the management of the Secretary, who shall act under the general supervision of the Publication Committee, subject to approval by the Council as to the policy thereof and the expenditures therefor. The annual subscription price of The Journal to each member is two dollars and is included in the annual dues of such member.

COMMITTEES

B 19 The President within one month after the Annual Meeting shall fill all vacancies in the Standing Committees by appointment from the membership of the Society.

Each of the Standing and the Annual Committees, shall, at their first meeting after the Annual Meeting, elect a Chairman to serve for one year. The President shall appoint the Chairman of each Professional Committee. A member of a Standing Committee, whose term of

office has expired, shall continue to serve until his successor shall have been appointed.

FINANCE COMMITTEE

B 20 The Finance Committee shall consist of five Members, Associates, or Associate-Members. The term of office of one member of the Committee shall expire at the end of each Annual Meeting. This Committee shall, under the direction of the Council, have a supervision of the financial affairs of the Society, including the books of account. The Committee may cause the accounts of the Society to be audited and approved annually by a chartered or other competent public accountant. The Committee shall hold monthly meetings for the audit of bills and such other business as shall come before it and shall deliver to the Secretary for presentation to the Council at the end of each fiscal year, a report of the financial condition of the Society for the past year, and also shall present therewith a detailed estimate for the probable income and expenditure of the Society for the following twelve months. It shall make recommendations to the Council as to investments, and, when called upon by the Council, advise upon financial questions. It shall have charge of the making of all contracts and other obligations to pay money in the Society's work and the ordering of all expenditures thereunder.

COMMITTEE ON MEETINGS

B 21 The Committee on Meetings shall consist of five persons who may be members of any grade. The term of office of one member of the Committee shall expire at the end of each Annual Meeting. It shall be the duty of the Committee to procure professional papers, to pass upon their suitability for presentation, and to suggest topical subjects for discussion at the Annual and Semi-Annual Meetings. The Committee may refer any paper presented to the Society to a person or persons, especially qualified by theoretical knowledge or practical experience, for their suggestions or opinions as to the suitability of the paper for presentation. Papers from non-members shall not be accepted except by unanimous vote of the Committee.

The Committee shall arrange the program, and shall have general charge of the entertainments to be provided for the members and guests for the above meetings. It shall prohibit the distribution or exhibition at the headquarters or at the places of the above meetings of all advertising circulars, pamphlets or samples of commercial apparatus or machinery. At the end of each fiscal year, the Committee shall deliver to the Secretary for presentation to the Council, a detailed report of its work.

PUBLICATION COMMITTEE

B 22 The Publication Committee shall consist of five Members, Associates, or Associate-Members. The term of office of one member shall expire at the end of each Annual Meeting. The Committee shall review all papers and discussions which have been presented at the meetings, and shall decide what papers and discussions, or parts of the same, shall be printed in the Transactions of the Society. The Committee shall have the supervision of the monthly publication of the Society known as "The Journal." The Committee will be expected to publish all such data as will be of assistance to engineers or investigators in their work. At the end of each fiscal year the Committee shall deliver to the Secretary for presentation to the Council, a detailed report of its work.

MEMBERSHIP COMMITTEE

B 23 The Membership Committee shall consist of five Members, Associates or Associate-Members. The term of office of one member of the Committee shall expire at the end of each Annual Meeting. It shall be the duty of this Committee:

To meet monthly to receive and scrutinize all applications for membership to the Society:

To seek further information as to the qualifications of an applicant, whose evidence of eligibility is not clear to the Committee:

To report to each session of the Council the names of all applicants under consideration, together with the action of the Committee on each.

The Committee shall at once destroy all correspondence in relation to each applicant when his name has been placed on the ballot by order of the Council, or upon the withdrawal of the application.

LIBRARY COMMITTEE

B 24 The Library Committee shall consist of four Members and the Secretary of the Society. One of the four Members shall be appointed by the President before the first day of each calendar year to serve for four years.

It shall be the duty of the Committee to represent the Society on the Library Board of the United Engineering Society.

The Committee shall deliver to the Secretary before October fifteenth of each year a detailed report of its work for the preceding twelve months and also of the work which it recommends for the next fiscal year, with an estimate of the cost thereof.

HOUSE COMMITTEE

B 25 The House Committee shall consist of five persons who shall be Members, Associates, Associate-Members or Juniors. The term of office of one Member of the Committee shall expire at the end of each Annual Meeting. It shall be the duty of the House Committee to have the care, management and maintenance of the rooms of the Society and furnishings, the historical relics, the paintings, and objects of art, and to recommend to the Council suitable regulations for their care and use. At the end of each fiscal year the Committee shall deliver to the Secretary a detailed report of its work.

EXECUTIVE COMMITTEE

B 26 The Council shall appoint from its members an Executive Committee to act for the Council during the interval between its sessions. The Committee shall make a report of its acts to each session of the Council for approval. The Secretary may take part in the deliberations of the Executive Committee, but shall not have a vote therein.

NOMINATING COMMITTEES

B 27 A Nominating Committee of five members, not members of the Council, shall be appointed before February first of each year by the President. The Secretary shall publish the names of this Committee

in the March issue of The Journal together with a request to the voting membership of the Society that they recommend to the Committee the names of eligible persons for the elective offices to be filled at the next election. This Committee shall deliver to the Secretary in writing between the first and the fifteenth of June the names of its nominees for the various elective offices next falling vacant under the Constitution, together with the written consent of each nominee. The names of the nominees for the various offices proposed by this Committee shall be published by the Secretary under the names of the Committee in the July issue of The Journal.

B 28 A special Nominating Committee, if organized, shall on or before October fifteenth, present to the Secretary the names of its nominees for the elective offices next falling vacant under the Constitution, together with the written consent of each nominee. The names of the nominees for the various offices proposed by this Committee shall be published by the Secretary under the names of this Committee in the November issue of The Journal.

JOHN FRITZ MEDAL COMMITTEE

B 29 The John Fritz Medal Committee shall consist of four persons of the grade of Member, to be appointed by the Council. The term of office of one member of this Committee shall expire at the end of each Annual Meeting. The duty of this Committee shall be to represent the Society in the Board of Trustees of the John Fritz Medal Fund Corporation.

TRUSTEE UNITED ENGINEERING SOCIETY

B 30 The Council shall, previous to January 1st of each year, elect a trustee to serve for a term of three years on the Board of Trustees of the United Engineering Society. No trustee shall be eligible for more than two terms consecutively.

REPRESENTATIVE DELEGATES

B 31 The Council may, in its discretion, appoint a member or members of the Society, or other person or persons, to represent it at meetings of Societies of kindred aim or at public functions. Such delegates shall be designated as "Honorary Vice-Presidents," and their duties shall terminate with the occasion for which they were appointed.

TELLERS

B 32 The President shall, on or before the last Thursday in October of each year, appoint three Tellers of Election of Officers, whose duty shall be to canvass the votes cast, and certify the same to the President or Presiding Officer at the first session of the Annual Meeting. Their term of office shall expire when their report of the canvass has been presented and accepted.

B 33 Ballots for an amendment to the Constitution shall be canvassed and announced in the same manner as the ballots for officers of the Society. The President shall appoint three Tellers to canvass any letter-ballots which shall be ordered by the Council or by the Society and to certify the same to the President, or the Presiding Officer.

MEETINGS

B 34 The Annual Meeting shall begin in the city of New York on the first Tuesday in December and continue from day to day as the Council may direct.

The Annual Business Meeting of the Society shall be held on the Wednesday following the first Tuesday of December.

The Semi-Annual Meeting shall be held in such place and begin on such a day as the Council may direct, and continue from day to day.

The Semi-Annual Business Meeting of the Society shall be held immediately preceding the first professional session of the Semi-Annual Meeting.

Professional Meetings of the Society for the reading and discussion of papers and for topical discussions may be held at such times and places as the Council may direct.

Announcements of all meetings of the Society shall be published in The Journal.

A notice of each Annual and Semi-Annual Meeting and each Annual and Semi-Annual Business Meeting of the Society shall be mailed by the Secretary to each member in each grade not less than thirty days before the date of that meeting and at least thirty days before each Special Business Meeting.

SECRETARY

B 35 The Secretary of the Society shall be the Secretary to the Council, and also to each of the Standing Committees.

The Secretary shall, under the supervision of the Finance Committee, have charge of the Books of Account of the Society.

He shall make and collect all bills against members or others.

He shall have charge of all bills against the Society, shall keep an account of the same, and shall present them in proper form to the Finance Committee for audit.

All funds received by any person for the Society, shall be delivered to the Secretary. He shall immediately enter them in the Books of Account, and shall immediately deposit such funds as he receives, to the credit of the Society, in a bank to be designated by the Council.

TREASURER

B 36 The Treasurer shall make payments only on the audit of the Finance Committee, or upon the direction of the Council, by resolution of that body. He shall furnish a bond for the faithful performance of his duties to such amount as the Council may require, such bond to be procured from an incorporated guarantee company, at the expense of the Society.

TITLES, EMBLEMS, CERTIFICATES

B 37 Each Member, Associate, Associate-Member and Junior shall, subject to such rules as the Council may establish, be entitled, on request, to a certificate of membership, signed by the President and Secretary of the Society. Every such certificate shall remain the property of the Society, and shall be returned to it on demand of the Council.

B 38 Each proxy authorizing a person to vote for an absent member, shall be signed by such absent member, with an attesting witness,

and be submitted to the Secretary for verification of the member's right to vote at the meeting at which the right is to be exercised.

B 39 The emblem of each grade of membership approved by the Council shall be worn by those only who belong to that grade. The official stationery shall be used only by Officers and Committees of the Society.

B 40 The abbreviation of the titles of the various grades of membership approved by the Society are as follows:

For Honorary Members.....	Hon. Mem. Am. Soc. M. E.
For Members.....	Mem. Am. Soc. M. E.
For Associates.....	Assoc. Am. Soc. M. E.
For Associate-Members.....	Assoc-Mem. Am. Soc. M. E.
For Juniors.....	Jun. Am. Soc. M. E.

B 41 Standards for the conduct of the business affairs of the Society, of its professional or business meetings and of its Committees and their activities may be established, amended or annulled by a two-thirds vote of the members of the Council present at a meeting, provided that a written notice of the proposed addition or change may have been given at a previous meeting of the Council, and provided further that the Secretary shall have sent to each member of the Executive Committee (acting as a Committee on Standards) a draft of the proposed addition or change at least two weeks prior to the meeting at which they are to be voted on.

B 42 Directions for the conduct of the business affairs of the Society may be established by the Secretary and the work covered shall be carried out as provided by these Directions. These Directions may be added to, amended or annulled by the Secretary, but it shall be his duty to send to each member of the Executive Committee (acting as a Committee on Standards) a draft of the change before it is put into effect.

RESEARCH COMMITTEE

B 43 The Research Committee shall consist of five Members, Associates, Associate-Members or Juniors. The term of office of one member of the committee shall expire at the end of each Annual Meeting.

B 44 This Committee shall have supervision of such research or investigations as may be directed or approved by the Council; shall correspond and collaborate with committees of kindred technical, scientific or other societies; shall keep in touch with researches conducted in other countries, which are of value to the engineer, and shall report the same quarterly to the Council.

B 45 The Committee will be expected to maintain a system of announcement of results of research, and the trend of investigations, in any field, which will be of value to the engineering profession.

B 46 Gifts or bequests to the Society for the conduct of research or investigation shall be expended under the direction of the Council and shall be kept separate from other Society funds.

COMMITTEE REPORTS

B 47 All written reports of all committees shall be presented to the Council. Each written report of every Committee must be approved in writing by at least a majority of the members of that Committee,

before it is presented to the Council. A member of a Committee who disagrees with the action of a majority of that Committee may express his disagreement over his signature, either on the report of the Committee or in a minority report. The minority report of any member of a Committee if offered, shall be presented at the same time that the report of that Committee is presented to the Council.

All reports of Committees must be first received by the Council who shall prescribe the manner in which they shall be presented to the Membership of the Society and be made public and printed.

RULES

R 1 The Secretary's office shall be open on business days from 9 a.m. to 5.30 p.m. During the Annual Meeting, the office shall be open from 9 a.m. to 10 p.m. A register shall be kept for each regular meeting, to record the attendance of members and guests.

R 2 The Secretary shall provide a badge or pin for each member or guest attending the Annual and Semi-Annual Meetings; the badge of each Member, Associate, Associate-Members and Junior to bear his name.

R 3 The Secretary shall, at each regular meeting of the Society, distribute at the headquarters a printed list of the names registered at the meeting.

R 4 Papers accepted by the Committee on Meetings shall be classified as follows:

(a) Papers valuable for record, but not suitable for presentation at a meeting, which will be referred to the Publication Committee with the recommendations of the Committee on Meetings.

(b) Papers requiring either advance publication or printing and distribution in pamphlet form, either in full or in abstract, for discussion at a meeting.

Papers of this class the Committee on Meetings may either turn over at once to the Publication Committee for advance publication in The Journal if approved by that Committee; or it may have printed in pamphlet form a sufficient number of copies for distribution at a meeting, for mailing in advance to those who may discuss the paper and to others who may desire copies because of publication of the title or an advance abstract of the paper in The Journal.

(c) Papers which require discussion at a meeting to determine their value and general interest.

Papers of this class may be accepted by the Committee on Meetings, but should not be put in type until they have been read and discussed.

The Committee on Meetings may, in its discretion, select papers for the Annual or Semi-Annual Meetings which have already been presented and discussed before local meetings of the Society.

A member may by letter signify his intention to discuss any of the papers, and unless otherwise directed by the Presiding Officer, priority in debate shall be given in the order of the receipt by the Secretary of such notification.

R 5 At professional sessions, each paper shall be read by abstract only, ten minutes being allowed to the author for the presentation unless otherwise ordered by the meeting.

R 6 A member who has given notice of his intention to discuss a paper, and shall have reduced his discussion to writing, shall be entitled to ten minutes for its presentation.

R 7 Each speaker shall be limited to five minutes in the oral discussion of a paper unless the time should be extended by unanimous

consent. A member who has once had the floor cannot claim it again until all the others have been heard who desire to speak on that paper. Authors may have five minutes to close the discussion on the paper.

R 8 Members unable to attend the meeting may send a discussion of any paper in writing, to be presented by the Secretary.

R 9 The Committee on Meetings shall deliver to the Secretary such papers as they recommend for presentation to the professional meetings of the Society.

R 10 The Secretary shall have sole possession of papers and illustrations between the time of their approval by the Committee on Meetings and their presentation to the professional session of the Society.

R 11 After the presentation and discussion of a paper, a copy of both shall be sent to the author, and, so far as possible, a copy of the reported discussion shall be sent to each member who presented it, with the request that he correct errors or omissions, and return the same promptly to the Secretary.

R 12 Members may order reprints of papers at a price sufficient to cover the cost to the Society, provided that said copies are not for sale.

R 13 The features of the program outside of the professional and business sessions to be provided for the members and guests at any meeting of this Society in any city shall be in charge of a Local Committee, subject, however, to the general approval of the Committee on Meetings. The President's reception of the Annual Meeting shall be in charge of the House Committee under the general supervision of the Committee on Meetings.

R 14 A member may invite a non-member to the professional sessions of the meeting, but the guest shall not take part in the proceedings without an invitation from the Presiding Officer. Invitations to guests of members for the entertainments provided for the Society shall be in the discretion of the Local Committee.

R 15 The Library of the Society shall be conducted as a free public reference Library of engineering and the allied arts and sciences. It will be open on all week days between the hours of 9 a.m. and 9 p.m., except New Year's, Independence, Thanksgiving and Christmas Days. The rooms of the Society shall be open for the use and the convenience of members during the usual business hours.

R 16 The American Society of Mechanical Engineers will furnish monthly issues of The Journal to all members of affiliated organizations who are not members of The American Society of Mechanical Engineers upon the payment by each of two dollars per year, such payment being due January 1 of each year. The American Society of Mechanical Engineers will furnish gratis to each affiliated body, extra copies of advance papers for use at its meetings, the number furnished to be agreed upon at the discretion of the Secretary.

PROFESSIONAL SECTIONS AND GEOGRAPHICAL GROUPS

R 17 A professional section or a geographical group of the Society shall consist of Honorary Members, Members, Associates, Associate-Members and Juniors of The American Society of Mechanical Engineers and of other persons to be designated Affiliates as hereinafter described.

R 18 A professional section of The American Society of Mechanical Engineers may, with the approval of the Council, be organized for the consideration of any engineering, scientific, or professional topic, provided that a number satisfactory to the Council, of Members of The American Society of Mechanical Engineers, unite in making written request for such an organization. A similar procedure shall apply to geographical groups. Such a section or group shall be designated as _____ Section or _____ Group of The American Society of Mechanical Engineers,—the blank being filled by the topic specialized or name of locality.

R 19 The provisions of the Constitution, By-Laws and Rules of The American Society of Mechanical Engineers, and the precedents of the Society with respect to professional sessions for the discussion of papers, shall cover the procedure of the professional sections or geographical groups except that no meeting of a section or group shall be considered a meeting of the Society as a whole.

R 20 For the convenient conduct of its professional affairs the section or group shall organize an Executive Committee of five members of the Society, under the general direction of the Council. Such officers as the section or group shall require must be selected from the membership of the Society. Other committees of the section or group shall be appointed by its Executive Committee.

R 21 The Executive Committee of the section or group, subject to the approval and direction of the Secretary of the Society, shall designate a Secretary of the section or group, whose duties shall be those usually attaching to the Secretary of a professional section, and who shall also see that the discussions of papers are satisfactorily reported and transmitted to the Secretary of the Society.

R 22 Expenditures for the purpose of a section or group chargeable to the Society must be authorized by the Secretary of the Society before they are incurred, and must be provided for in the estimate and budget approved by the Council. No liability otherwise incurred shall be binding on the Society. Any expenditure not so provided must be met by the section or group itself.

R 23 Engineers and others not members of The American Society of Mechanical Engineers, but desiring to participate in the meetings of the section or group, may enroll themselves as Affiliates as heretofore provided, with the approval of the Executive Committee of the section or group. Such Affiliates shall have the privilege of presenting papers and taking part in the discussions. They shall pay \$5 per annum, which shall be due and payable in advance, on October 1st of each year of their enrollment, and shall thereby be entitled to receive the regular issues of The Journal for a period covered by their dues.

R 24 The Council of The American Society of Mechanical Engineers may, at sixty days' notice, suspend or disband any section or group.

STUDENT BRANCHES

The following rules with respect to Student Branches, among students of engineering and technical schools, have been added to the rules for the guidance of the organization of branches:

R 25 The name of this Association shall be "_____ Affiliated with The American Society of Mechanical Engineers"; or, the "_____ Student Branch of The American Society of Mechanical Engineers."

R 26 The basis of such an affiliation shall be the independence, autonomy and self-control of each affiliated body under its own by-laws, subject to such limitation as may be set by the Council.

R 27 Each affiliated society shall furnish to the Secretary of The American Society of Mechanical Engineers, satisfactory reports of discussions and business transacted at its meetings; also copies of all papers and addresses presented.

R 28 Upon recommendation of each affiliated society, the President of The American Society of Mechanical Engineers, after conference with the Secretary of the Society, shall appoint a member of the latter body to be Honorary Chairman of each affiliated society, for each year. Such Honorary Chairman shall be, ex-officio, a member of the Governing Committee of said affiliated society.

R 29 The Presiding Officer chosen by each affiliated society shall be styled Chairman of the _____ Affiliated with The American Society of Mechanical Engineers; or, Chairman of the _____ Student Branch of The American Society of Mechanical Engineers.

R 30 The affairs of the affiliated society shall be managed by a governing committee of at least three members, besides the Honorary Chairman.

R 31 The names which designate any committees appointed by the affiliated societies shall be different from the names of corresponding committees of The American Society of Mechanical Engineers.

R 32 The affiliated society shall have the privilege of having printing done by The American Society of Mechanical Engineers at cost. Where the affiliated society desires to publish any papers in local journals or elsewhere, it shall first ascertain that The American Society of Mechanical Engineers does not itself desire to publish such paper and the privilege of priority in publication shall always be the right of The American Society of Mechanical Engineers. The affiliated society shall claim no exclusive copyright upon such papers.

TELLERS

R 33 The Tellers of Election in counting the ballots for officers shall consider a ballot for an officer as valid, providing the intent of the voter as to that particular office is clear, even though his ballot as to candidates for another office may for any reason be invalid.

AFFILIATED SOCIETIES

R 34 Any regularly organized group of engineers or engineering society, which by Constitution, By-Laws and practice, is in accord with the traditions and aims of The American Society of Mechanical Engineers, may secure affiliation on approval by the governing boards of each Society.

R 35 The term "affiliated with The American Society of Mechanical Engineers" shall not be used officially or by individual members until specific approval has been secured by each governing board, nor shall such term be used by either after the relation of affiliation has terminated.

R 36 An affiliated society shall have independence, autonomy and self-control under its own constitution and by-laws, unimpaired by its relation with The American Society of Mechanical Engineers.

R 37 The American Society of Mechanical Engineers shall not be responsible for any act of an affiliated society.

R 38 Printing for an affiliated society will be done at cost; this applies also to the printing in pamphlet form of advance copies of all papers presented before The American Society of Mechanical Engineers and such papers as may be desired for meetings of an affiliated society. The Society may print in The Journal any papers and discussions presented before an affiliated society, which the Publication Committee of The American Society of Mechanical Engineers may select.

R 39 The members of an affiliated society shall have the right to subscribe and receive The Journal on the same terms as other affiliates of The American Society of Mechanical Engineers.

R 40 The relation of affiliation with any organization may be terminated by either party upon sixty days' notice, given in writing by the governing body of either society, to that of the other.

PRIZES FOR JUNIORS

R 41 The Council shall appoint annually, not later than its regular meeting in January of each year, three members of the Society, not members of the Council, who shall form a committee to recommend the award of prizes for Juniors during the year. This committee shall include one member of the Committee on Meetings of the Society.

R 42 The papers considered shall include all papers presented to the Society by Juniors during the year ending June 30.

R 43 The Committee on Award shall report its recommendations to the Council on or before October 1; the findings of the Committee shall be final. Prizes shall be awarded by the Council. The awards shall be announced at the Annual Meeting and shall also be published in The Journal.

R 44 The Secretary of the Society shall act as Secretary to the Committee on Award, but shall not be a member of the Committee.

R 45 The Rules of Award are as follows:

(a) The competition for the prize shall be restricted to the Juniors of the Society.

(b) The prize shall consist of fifty dollars in cash and an engraved certificate, signed by the President and Secretary of the Society.

(c) The prize shall be awarded for the best paper of the year, provided such paper shall be adjudged of sufficient merit as a contribution to the literature of the profession of mechanical engineering, but not otherwise.

(d) Papers to be eligible for competition must be the bona fide production of those contributing them and must not have been previously made public nor contributed to any other society in whole or in part.

(e) If in any one year, no award be made, it shall be in the power of the committee to award in the following year or years the accumulated prizes to the authors of the different papers deemed of sufficient merit.

(f) These rules may be modified by the Council.

PRIZES FOR STUDENT BRANCH MEMBERS

R 46 The Council shall appoint annually, not later than its regular meeting in January of each year, three members of the Society not members of the Council, who shall form the Committee on Award to recommend the award of prizes from the prize fund for enrolled members of Student Branches of the Society. This committee shall include the Chairman of the Committee on Student Branches.

R 47 The Honorary Presidents of the Student Branches submitting papers in competition shall be asked to act as advisory members to the Committee on Award.

R 48 The papers considered shall include papers submitted by Members of Student Branches in competition during the year ending on June 30.

R 49 The Committee on Award shall report its recommendations to the Council on or before October 1. The findings of the Committee shall be final. Prizes shall be awarded by the Council. The awards shall be announced at the Annual Meeting and shall be published in The Journal.

R 50 The Secretary of the Society shall act as Secretary to the Committee on Award, but shall not be a member of the Committee.

R 51 The Rules of Award are as follows :

(a) The competition for the prize shall be restricted to enrolled members of the Student Branches of the Society in good standing.

(b) The two prizes shall consist of twenty-five dollars each in cash, with an engraved certificate, signed by the President and Secretary of the Society.

(c) The prizes shall be awarded for the two best papers presented during the year ending June 30, provided such papers shall be adjudged of sufficient merit to be a contribution to the literature of the profession of mechanical engineering, but not otherwise.

(d) Papers to be eligible to consideration in the competition must be the bona fide production of those contributing them; and must not have been made public nor contributed in whole or in part to any other body than the Student Branch in which they originated.

(e) If no award of a prize is made in any year, it shall be within the power of the Committee on Award in the following year or years, to award the accumulated prizes to more than the two authors specified in paragraph c provided the papers in competition be deemed of sufficient merit.

(f) These rules may be modified by the Council.

THE AMERICAN SOCIETY OF
MECHANICAL ENGINEERS

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INDEX TO CONSTITUTION, BY-LAWS AND RULES

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