The
Institute of Radio Engineers
(Incorporated)

Organized 1912

Year Book
1927

Price 75 cents per copy

Institute of Radio Engineers
37 West 39th Street, New York
Robert Henry Marriott
First President of the Institute of Radio Engineers
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OFFICERS AND BOARD OF DIRECION 1927

(Terms expire January 1, 1928, except as otherwise noted)

PRESIDENT
RALPH BOWN

VICE-PRESIDENT
FRANK CONRAD

TREASURER
WARREN F. HUBLEY

SECRETARY AND EDITOR
ALFRED N. GOLDSMITH

MANAGERS
(Serving until January 1, 1928)

MELVILLE EASTHAM
L. A. HAZELTINE

J. V. L. HOGAN
R. H. MANSON

A. E. ROCH

L. E. WHITTEMORE

R. A. HEISING

(Serving until January 1, 1929)

R. H. MARRIOTT

(Serving until January 1, 1930)

J. F. DILLON

JUNIOR PAST PRESIDENTS

DONALD McNicol

ASSOCIATE EDITOR
GEORGE R. METCALFE

ASSISTANT SECRETARY
JOHN M. CLAYTON

7
PAST OFFICERS OF THE INSTITUTE

PRESIDENTS

R. H. Marriott, 1912-1913
G. W. Pickard, 1913-1915
L. W. Austin, 1915-1916
John Stone Stone, 1916-1917
J. C. Kennebela, 1917-1918
M. I. Pupin, 1918-1919
G. W. Pierce, 1919-1920
J. Y. L. Hogan, 1920-1921
E. P. W. Alexander, 1921-1922
Fulton Cutting, 1922-1923
Irving Langmuir, 1923-1924
J. H. Morecroft, 1924-1925
J. H. Dellinger, 1925-1926
Donald Mc Nicol, 1926-1927

VICE-PRESIDENTS

R. H. Marriott, 1913-1914
John Stone Stone, 1914-1915
G. W. Pierce, 1915-1916
J. Y. L. Hogan, 1916-1917
E. P. W. Alexander, 1917-1918
Donald Mc Nicol, 1918-1919
Ralph Hown, 1919-1920

SECRETARIES

K. J. Simon, 1913-1914
D. Sarnoff, 1914-1915
Alfred N. Goldsmith, 1915-1926

ASSISTANT SECRETARIES

Thomas T. Trapnell, 1914-1915
R. H. Langley, 1915-1916

TREASURERS

J. H. Hammond, Jr., 1911-1912
W. F. Hulsey, 1912-1913
L. H. Cumming, 1913-1914
W. F. Hulsey, 1914-1915

EDITOR

Alfred N. Goldsmith, 1913-1926

ASSOCIATE EDITORS

G. H. Clark, 1914-1915
George H. Michtalfe, 1915-1926

MANAGERS

W. W. Austin, 1916-16
K. W. W. Alaxander, 1917-18
K. H. Armstrong, 1916-19
W. G. R. Bullard, 1916-19
Edward M. Bennett, 1919-21
K. H. Cottets, 1921-22
George S. Davis, 1915-1921
Melvile R. Nietham, 1922-1926
Lloyd E. Spenlish, 1918-1920
A. H. Grebes, 1921-1922
J. L. Hogan, 1921-1922
Guy Hill, 1914-1920
Louis A. Hazeltine, 1923-1926

COMMITTEES OF THE INSTITUTE OF RADIO ENGINEERS, 1927

COMMITTEE ON MEETINGS AND PAPERS

R. H. Marriott, Chairman
Stuart Hallanting
R. H. Catchrick
Carl Dregier
W. G. Finch
E. A. Heising
S. S. Kirby
G. W. Pickard
Paul Weeks
W. Wilson

COMMITTEE ON ADMISSIONS

F. Conrad, Chairman
Arthur Batcheller
Harry F. Dari
C. P. Edwards
A. H. Grebes
L. A. Hazeltine
R. A. Heising
L. M. Hull
F. H. Knicker
A. G. Lee
F. K. Vreeland

COMMITTEE ON REVISION OF THE CONSTITUTION

J. H. Dellinger, Chairman
J. Y. L. Hogan
Donald Mc Nicol

COMMITTEE ON MEMBERSHIP

Harry F. Dart, Chairman
M. C. Batesl
M. Hering
George Burnhard
E. M. DeLoraine
J. F. Dillon
L. J. Dunn
C. P. Edwards
W. G. Finch
C. M. Jansky, Jr.
Robert S. Kroge
William J. Lee
Pendleton F. Leedie
C. L. Richardson
F. H. Schielle
F. H. Shute
G. R. Turner
E. H. Ulrich

SECTION SECRETARIES—Ex-Officio

L. W. Austin, 1915-1916
K. W. W. Alexander, 1917-19
E. P. W. Alexander, 1919-1922
J. L. Marriott, 1914-1915
John Stone Stone, 1916-1920
R. H. Cumming, 1917-1920
R. H. Langley, 1919-1920
L. H. Cumming, 1920-1921
George H. Michtalfe, 1921-1922
W. F. Hulsey, 1922-1924
George H. Lewin, 1924-1925
Donald Mc Nicol, 1925-1926
Donald Mc Nicol, 1925-1926

COMMITTEE ON PUBLICITY

W. G. Finch, Chairman
David Case
Ohvink H. Hulsey
Fred Ehrheiter
E. H. Hansen
H. J. Jacquet
J. P. J. Maher
J. G. Nystrom
Willis K. Wing
R. F. Yates

COMMITTEE ON INSTITUTE SECTIONS

David H. Gage, Chairman
M. Hering
L. F. Fuller
D. H. Hulsey
L. E. Heising
M. C. Rypinski
R. H. Shute

COMMITTEE ON STANDARDIZATION

L. W. Austin, Chairman
M. C. Batesl
E. A. Heising
S. S. Kirby
L. H. Cumming
R. H. Langley
M. Hering
L. A. Hazeltine
J. H. Clinton
M. H. Howard
A. N. Goldsmith
L. A. Hazeltine
L. I. Hogan
L. M. Hull
F. A. Holster
Major J. O. Maurine
R. H. Manson
Donald Mc Nicol
L. L. Nelson
H. S. Osbornes
Lt. Comdr. E. H. Ruhle
R. H. Shaughnessy
H. M. Turner
C. A. Whitmore
Hidetsugu Yagi
J. Zenneck
INSTITUTE REPRESENTATIVES IN OTHER TECHNICAL BODIES

Council of the American Association for the Advancement of Science ............ J. H. DELLINGER

Radio Advisory Committee, Bureau of Standards Department of Commerce L. A. HAZELTINE

American Engineering Standards Committee Sectional Committee on Radio .................. J. H. MORECROFT L. A. HAZELTINE J. V. L. HOGAN

Technical Committees—

Sectional Committee on Electric Wiring and Apparatus in Relation to Fire Hazard (National Electric Code) .................. DONALD MCNICOL

Sectional Committee on Electrical Installations on Shipboard .................. J. V. L. HOGAN

Sectional Committee on Scientific Symbols and Abbreviations .................. A. E. KENNELLY

Sub-Committee on Electrical Abbreviations—Including Radio .................. L. E. WHITTEMORE (Alternate)

Sectional Committee on Standards for Drawings and Drafting Room Practices .................. L. E. WHITTEMORE

Sectional Committee on Preferred Numbers .................. L. A. HAZELTINE

GENERAL INFORMATION

Institute History

Prior to the formation of the Institute of Radio Engineers, two other organized groups of radio enthusiasts held meetings in New York and Boston. These were the Wireless Institute and the Society of Wireless Telegraph Engineers.

On May 13, 1912, these two organizations were merged, taking the new name of the Institute of Radio Engineers. Headquarters were established in New York.

The Society of Wireless Telegraph Engineers had a membership of eleven on January 1, 1907, and forty-three on January 1, 1912. The Wireless Institute had fourteen members on January 1, 1909, and twenty-seven members on January 1, 1912. The Institute of Radio Engineers, at the time of its foundation, had less than fifty paid-up members.

Prominent in the early work of the Society of Wireless Telegraph Engineers were John Stone Stone, Lee DeForest, R. A. Somerville, Joseph D. Fountain, R. B. Respress, R. A. Cleva, John Gregg, E. Barnwell, Philip Farnsworth, Sidney L. Williams, R. H. Marriott, G. W. Pickard, Harry Shoemaker and Eugene Thurston. The consolidation of these two societies and the initial work of organizing the Institute of Radio Engineers was done by J. V. L. Hagan, A. N. Goldsmith, and R. H. Marriott.

Aims of the Institute

The Institute of Radio Engineers functions solely to advance the art and science of radio communication. It numbers among its members nearly all of the men who have been prominent in the development of radio in the United States, as well as many noted radio engineers and scientists in other countries.

The membership of the Institute consists of those persons who are qualified for any of its several grades of membership, either through their interest in radio communication, or by practice of some phase of radio engineering as a profession. The eligibility of an applicant to membership in the Institute, in most cases on the recommendation of the Committee on Admissions.

Through the presentation and publication of original
papers, by affording its members the opportunity of meeting and discussing radio problems, by awards of honors and prizes, and in other ways, the Institute fosters and encourages the development of this important means of communication, and particularly aids in the exchange of radio information of a technical and engineering nature.

Publications

The papers presented at the meetings of the Sections and of the Institute in New York, together with the discussions and other papers submitted by Institute members, are printed in the Proceedings of the Institute of Radio Engineers, published monthly. The Proceedings thus constitute a continually growing store of information on all phases of radio engineering. A digest of U. S. patents relating to radio telegraphy and telephony is also published in each issue. Since the first issue in 1913, 357 papers have been printed. The Proceedings are sent free to all Institute members of all grades. The subscription price to non-members is $10.00 per year.

One of the most active Committees of the Institute in the past has been the Committee on Standardization. Standardization reports giving definitions of terms and standard graphical symbols used in radio communication were issued in 1913, 1915, 1922, and 1926. It is contemplated that the next report will be issued early in 1928. These Standardization Reports have become an important reference authority on terminology and symbols in radio practice.

This Yearbook is the fourth one the Institute has published; the first appearing in 1914, the second in 1916, and the third in 1926.

Institute Awards for Meritorious Achievement in Radio

The Institute each year makes two awards to radio investigators in recognition of noteworthy inventions or other developments in radio technique.

One award, the Institute Medal of Honor, is a gold medal suitably engraved. The Medal of Honor is awarded to that person who has made public the greatest advance in the science or art of radio communication, regardless of the time of performance or publication of the work on which the award is based.

The advance may be an unpatented or patented invention which has been completed and adequately described in a scientific or engineering publication of recognized standing, and must be in actual operation. Preference will be given to widely used and widely useful inventions.

The advance may also be a scientific analysis or explanation of hitherto unexplained phenomena of distinct importance to the radio art, though the application thereof need not be immediate. Preference will be given analyses directly applicable to the art. Publication, in this case also, must be in full and approved form.

The advance may further be a new system of traffic regulation or control; a new system of administration of radio companies or of service of steamship, railroad, or other companies; a legislative program beneficial to the radio art, or any portion of the operating or regulating features of the art. It must be publicly described in clear and approved form and must, in general, be actually adopted in practice.

This medal has been awarded to the following:

E. H. Armstrong........1918 Lee De Forest.........1922
E. F. W. Alexander........1919 John Stone Stone.........1923
G. Marconi........1920 M. I. Pupin........1924
R. A. Fessenden........1921 G. W. Pickard........1926

The other award is known as the Morris Liebmann Memorial Prize. This award was made possible through the generosity of Emil J. Simon, a Fellow of the Institute. It is given to perpetuate the memory of the late Colonel Morris N. Liebmann. The award consists of the sum of five hundred dollars which is the annual income derived from the principal of the gift of ten thousand dollars.

The award is made by a special committee, appointed annually by the Board of Direction, to that member of the Institute who, in the opinion of this committee, shall have made the most important contribution to the radio art during the preceding calendar year.

The Morris Liebmann Memorial Prize has been awarded to the following:

L. F. Fuller........1919 H. H. Beverage........1923
R. A. Wengert........1920 J. R. Carson........1924
R. A. Heising........1921 Frank Conrad........1925
C. S. Franklin........1922 Ralph Bown........1926

All members of the Institute are eligible as candidates for these highly valued prizes. Each year's developments are carefully reviewed and examined by the Committees appointed, and by the Board of Direction, the awards being made by vote of the Board in the case of the Institute Medal of Honor, and by vote of the committee appointed by the Board in the case of the Liebmann Memorial Prize. The names of the engineers who have already been granted awards clearly show that the younger men as well as the pioneers, and the design, development and factory engineers as well as research engineers, have been given due recognition in the making of awards.
Grades and Conditions of Membership

The several grades of membership in the Institute of Radio Engineers as well as the qualifications required for each, dues, fees, etc., are tabulated on page 14. Full details will be found in the Constitution under articles II and III. All the benefits of membership are available at once to all new members of any grade, except that Juniors are not eligible to vote. Membership means, also, that one is enrolled with others having a similar interest in radio, and that one is on record as being among those who are interested and active in the development of this new and useful branch of the electrical engineering industry.

The grades of Fellow and Member require a much higher degree of technical training and experience than the grade of Associate. In order to maintain a high standard of membership, the Board of Direction in each case very carefully scrutinizes the applications for Fellow and Member grades.

Before applying for membership in any grade the applicant should carefully read the Constitution of the Institute to ascertain for which of the several grades he is eligible. An extract from the Constitution dealing with Admissions, Eligibility, Fees, etc., is printed on the back of the application form obtainable from Institute Headquarters.

When filling in the application form, the applicant should submit the names of those persons who have knowledge of his professional experience, rather than those who have a high professional standing, but cannot vouch for him.

Insignia

The following are the insignia of membership approved by the Institute. Any abbreviations of these terms or other titles supposedly corresponding thereto are unauthorized:

- Fellow, I. R. E.
- Member, I. R. E.
- Associate, I. R. E.

Institute Badges

The authorized Institute badge is of 14-karat gold, finished in enamel and gold lettering. The Fellow's badge is of blue lettering on a gold background, Member's badge in gold lettering on a blue background, Associate's badge in gold lettering on a maroon background, and Junior's badge in gold lettering on a white background. The badge is made in the form of a lapel pin or a watch charm. The charm is finished
CERTIFICATES OF MEMBERSHIP

Membership cards are sent to Associate and Junior members each year. Upon application to the Secretary's office for the Member and Fellow grades are issued. The membership cards are signed by the Secretary and the diplomas are signed by the President and the Secretary.

MEETINGS

Meetings of the Institute of Radio Engineers are held on the first Wednesday of each month (except during July and August) at the Engineering Societies Building, 29 West 39th Street, New York City. On these occasions engineering papers are presented. These papers describe recent developments in radio and are the subject of general discussion on the part of those in attendance.

SECTIONS

The following Sections of the Institute, which in most cases meet once a month, have been organized in localities where there is a sufficient number of Institute members:

BOSTON SECTION—Prof. George W. Pierce, Chairman; Melville Eastham, Secretary, 11 Windsor Street, Cambridge, Mass.

CANADIAN SECTION (Headquarters at Toronto)—D. Hepburn, Chairman; C. C. Meredith, Secretary, 110 Church Street, Toronto, Ontario.

CHICAGO SECTION—G. M. Wilcox, Chairman; H. E. Kranz, Secretary, 4540 Armitage Avenue, Chicago, III.

CONNECTICUT VALLEY SECTION (Headquarters at Middletown, Conn.)—Dr. W. G. Cady, Chairman; Dr. K. S. Van Dyke, Secretary, Scott Laboratory, Middletown, Conn.

LOS ANGELES SECTION—L. Taufenbach, Chairman; L. Elden Smith, Secretary, 340 No. Painter Ave., Los Angeles, Calif.

PHILADELPHIA SECTION—J. C. Van Horn, Chairman; David P. Gullette, Secretary, 1538 Pine Street, Philadelphia, Pa.

ROCHESTER SECTION—V. M. Graham, Chairman; Harvey Klumb, Secretary, 34 Clinton Ave., Rochester, N. Y.
THE INSTITUTE OF RADIO ENGINEERS, INC.

COMPARATIVE BALANCE SHEET

ASSETS

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<th>Dec. 31, 1926</th>
<th>Dec. 31, 1925</th>
<th>Increase/Decrease</th>
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<tbody>
<tr>
<td>CASH</td>
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<tr>
<td>On Deposit - Corn Exchange Bank</td>
<td>6,238.26</td>
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<td>On Deposit - National State Bank</td>
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<td>3,653.63</td>
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<td>On Hand - Petty Cash Fund</td>
<td>175.00</td>
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<td>16,465.53</td>
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<td>ACCOUNTS RECEIVABLE</td>
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<tr>
<td>Juniors</td>
<td>56.00</td>
<td>4.00</td>
<td>52.00</td>
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<tr>
<td>Associates</td>
<td>698.80</td>
<td>262.25</td>
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<tr>
<td>Members</td>
<td>88.50</td>
<td>39.50</td>
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<tr>
<td>Fellows</td>
<td>1,070.81</td>
<td>1,228.34</td>
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<td>Advertising</td>
<td>5.00</td>
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<td>TOTAL ACCTS. REC.</td>
<td>1,829.51</td>
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<td>DEPOSIT FOR RENT</td>
<td>90.00</td>
<td>90.00</td>
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<td>INVENTORIES</td>
<td></td>
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<tr>
<td>Proceedings on hand</td>
<td>11,102.44</td>
<td>6,410.95</td>
<td>4,691.49</td>
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<tr>
<td>Paper Stocks on hand</td>
<td></td>
<td>1,621.00</td>
<td>1,621.00</td>
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<td>Investments</td>
<td>17,117.50</td>
<td>17,117.50</td>
<td>0.00</td>
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<tr>
<td>Furniture &amp; Fixtures</td>
<td>2,993.55</td>
<td>2,993.55</td>
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<tr>
<td>Less - Reserve for Dep.</td>
<td>966.26</td>
<td>1,397.29</td>
<td>431.03</td>
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<tr>
<td>Accrued Interest receivable</td>
<td>390.00</td>
<td>390.00</td>
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</table>

TOTAL LIABILITIES $1,425.44 $1,910.12 $514.68

MORRIS LIEBMAN MEMORIAL FUND
Principal $10,060.00 $10,060.00
Unexpended Income 77.87 77.87

TOTAL MORRIS LIEBMAN MEMORIAL FUND $10,137.87 $10,137.87

SURPLUS
Balance, January 1st $27,390.72 $22,065.28 $5,325.44
Operating Profit for Year 10,033.23 5,295.41 4,737.82

SURPLUS DEC. 31st $37,423.95 $27,390.72 $10,033.23

Total $18,927.26 $42,408.71 $23,481.45

PREPAID INSURANCE PREMIUMS $51.36 $55.06 $3.70
Deferred Engraving Expense 101.71 101.71 0.00
TOTAL ACCOUNTS PAYABLE $117.12 $3,117.41 $3,000.32

DUES, ETC., PAID IN ADVANCE
Juniors 8.16 9.53 1.37
Associates 241.46 283.89 42.43
Members 59.19 18.82 40.37
Fellows 55.90 36.60 19.30
Subscriptions to Proceedings 970.51 1,473.53 503.02

TOTAL LIABILITIES $1,425.44 $1,910.12 $514.68

GENERAL INFORMATION

At this meeting the officers of the Section shall be elected, and the several standing Committees
be organized. Thereafter not less than five meetings shall be held annually, f.

The headquarters of the Institute shall be in New York City, in the American Engineering Standards Committee.

The Institute of Electrical Engineers and the American

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Institute of Electrical Engineers and the American

Institute of Electrical Engineers and the American
CONSTITUTION

ADOPTED AT THE FIRST MEETING OF THE INSTITUTE OF RADIO ENGINEERS, MAY 13, 1912: AMENDED NOVEMBER 2, 1914, AND DECEMBER 5, 1915

ARTICLE I

NAME AND OBJECT

SEC. 1—The name of this organization shall be the Institute of Radio Engineers.

SEC. 2—Its object shall be the advancement of the theory and practice of radio engineering and of the allied arts and sciences, and the maintenance of a high professional standing among its members. Among the means to this end shall be the holding of meetings for the reading and discussion of professional papers and the publication of such papers, discussions and communications as may seem expedient.

ARTICLE II

MEMBERSHIP

SEC. 1—The membership of the Institute shall consist of:

a. Honorary Members, who shall be entitled to all rights and privileges of the Institute except the right to nominate, vote and hold office.

b. Fellows, who shall be entitled to all rights and privileges of the Institute.

c. Members, who shall be entitled to all rights and privileges of the Institute except the right to hold the office of President and Vice-President.

d. Associates, who shall be entitled to all rights and privileges of the Institute except the right to hold the office of President, Vice-President, and Editor.

e. Juniors, who shall be entitled to attend all meetings and to receive copies of all Institute publications.

SEC. 2—Honorary members may be chosen from among those who have rendered acknowledged eminent service to radio science, or the radio arts.

SEC. 3—A Fellow shall not be less than thirty years of age and shall be either:

a. A radio engineer by profession. As such he shall be qualified to design and take responsible charge of important radio work; he shall have been in the active practice of his profession for at least seven years, and shall have had
CONSTITUTION

responsible charge of important radio work for at least three years.

When the applicant holds in a principal national society of an allied branch of engineering, membership in a grade for which the qualifications indicate a standing equal to that required for the grade of Fellow herein, such membership shall be considered equivalent to three of the required seven years of active practice of the radio profession.

b. A professor of physical science or of electrical engineering. As such he shall have attained special distinction as an expounder of the principles of radio science and of radio engineering; he shall have had at least seven years experience as a teacher of physical or electrical subjects and shall have had responsibility, for three years, in a radio course of a principal school of science or engineering. Any years of experience as defined in paragraph "a" that the applicant may have had as a radio engineer shall be considered the equivalent of the same number of years of experience as a "teacher of radio subjects."

c. A person who has done notable original work in radio science of a character to give him a recognized standing at least equivalent to that required for the Fellows under paragraphs "a" and "b."

d. A person regularly engaged in radio work for at least seven years, who, by inventions or special proficiency in contributions to the radio science or the radio arts or radio literature, has attained a standing at least equivalent to that required for the Fellows under paragraphs "a" and "b."

SEC. 4—A Member shall not be less than twenty-five years of age and shall be either:

a. A radio engineer by profession. As such, under general direction he shall have designed and taken responsibility for important radio engineering work; he shall have been in the active practice of his profession for at least four years.

When the applicant holds in a principal national society of an allied branch of engineering, membership of a grade for which the qualifications indicate a standing equal to that required for the grade of Member herein, such membership shall be considered equivalent to two years of the requisite four years of active practice of the radio profession.

b. A teacher of physical science or of electrical engineering. He shall have had at least four years experience as a teacher of radio subjects in a school of recognized standing. Any years of experience the applicant may have had as a radio engineer shall be considered the equivalent of the same number of years of experience as a "teacher of radio science or of radio engineering."

c. A person regularly employed in radio or closely allied work for at least four years, who, by invention or by proficiency in radio science, the radio arts, or radio literature, or as an executive of any radio enterprise of large scope, has attained a standing equivalent to that required for Members under paragraphs "a" and "b."

In the case of such an executive the applicant must be qualified to take responsibility charge of the broader features of radio engineering involved in the work under his direction.

d. A commissioned officer of the Army or Navy of the United States Government or of any foreign government, who has been regularly engaged in radio work for a period of at least three years, who shall have had responsible charge of important government radio work for at least one year and who shall have attained the rank of Captain in the Army or Lieutenant in the Navy.

SEC. 5—An Associate shall be not less than twenty-one years of age and shall be:

a. A radio engineer by profession.

b. A teacher of radio subjects.

c. A person who is interested in and connected with the study or application of radio science or the radio arts.

SEC. 6—A Junior shall not be less than sixteen years of age nor over twenty-one years of age, and shall be a person who is interested in the study or application of radio science or the radio arts.

On attaining the age of twenty-one years, Juniors shall be transferred to the grade of associate.

SEC. 7—In all cases, graduation from the radio course or electrical course of a school of science or of engineering of recognized standing shall be considered the equivalent of one year's radio experience.

SEC. 8—Any person who is a Member at the time this group of amendments is adopted shall not be barred from eligibility to the grade of Fellow because of the age limitation, provided he shall otherwise be eligible as herein defined.

Any person who is an Associate at the time this group of amendments is adopted shall not be barred from eligibility to the grade of Member because of age limitations, provided he shall otherwise be eligible as herein defined.

ARTICLE III

ADMISSIONS AND EXPULSIONS

SEC. 1—Honorary Members shall be recommended by at least ten members of the Board of Direction, and upon unanimous vote of the Board shall be proposed to the membership for election. A person elected an Honorary Mem-
ber shall be promptly notified thereof by letter. The election shall be canceled if an acceptance is not received within six months after the mailing of notice.

SEC. 2—Applications may be made for admission or transfer to any grade of membership. Applicants shall give references to members of the Institute as follows:
   For the grade of Fellow, to five Fellows.
   For the grade of Member, to five Fellows or Members.
   For the grade of Associate, to five Fellows, Members or Associates.
   For the grade of Junior, to five Fellows, Members or Associates.

Each application for admission or for transfer from one grade to another shall embody a concise statement, with dates, of the candidate’s training and experience, and shall be in such form and such detail as may be prescribed by the Board of Direction. It shall be signed by the applicant and shall contain a promise to conform to the requirements of that grade of membership to which he may be elected.

Each of the members referred to by the applicant shall be requested by the Secretary to address a letter to the Board of Direction stating the extent of the writer’s personal knowledge of the applicant and his training and experience. If at least a majority of the corporate members named as references do not furnish the requisite endorsement, the Secretary shall call upon the applicant for additional names, and not until written communications have been received from at least three members shall the application be considered by the Board of Direction.

The requirements of the foregoing paragraph may be waived in whole or in part where the applicant is well-known, either personally or by reputation, to the Board of Direction, or where the application is for Junior or Associate grade.

An applicant who is so situated as not to be personally known to the required number of members of any grade may give the names, occupations and addresses of responsible non-members to complete the required number of references.

SEC. 3—A list comprising the names, ages, addresses and occupations of all new applicants for admission or transfer shall be sent by the Secretary to each member of the Board of Direction.

The Board of Direction may consider applications for admission or transfer to the grade of Member at any regular meeting held at least two weeks after the list containing the applicants’ names has been sent to each member of the Board of Direction.

The Board of Direction may consider applications for admission or transfer to the grade of Fellow at any regular meeting held at least four weeks after the list containing the applicant’s names has been sent to each member of the Board of Direction.

A recorded affirmative vote, oral or written, of at least two-thirds of the Board members voting at any regular meeting, shall elect or transfer an applicant for any grade.

A vote on any application shall stand, unless withdrawn by the Board member voting, until the application is finally acted upon.

SEC. 4—A rejected applicant may renew his application for membership at any time after the expiration of one year from the date of the ballot rejecting his previous application.

SEC. 5—All elected candidates shall be duly notified and shall subscribe to the Constitution and Rules of the Institute. Forms for this purpose shall be prescribed by the Board of Direction. If these provisions are not complied with within six months from the notification of election, such election shall be considered void, unless for special reasons the time shall be extended by the Board of Direction. Membership of any person shall date from the date of his election.

SEC. 6—Fellows, Members, Associates or Juniors, if found delinquent in their duties may be tried by the Board of Direction, and upon decision of the Board their names shall be submitted to the Institute to determine their suspension or expulsion. A three-quarters vote of the Institute shall be necessary to ratify such action of the Board.

SEC. 7—A member may resign his membership by a written communication to the Secretary, who shall present the same to the Board of Direction; when, if all his dues have been paid, his resignation shall be accepted.

ARTICLE IV

DUES

SEC. 1—The entrance fee, payable on admission to the Institute, shall be as follows:
   Admission to the grade of Fellow, ten (10) dollars.
   Admission to the grade of Member, five (5) dollars.
   Admission to the grade of Associate, three (3) dollars.
   Admission to the grade of Junior, one (1) dollar.

The transfer fee from one grade of membership to another shall be the difference between the corresponding admission fees.

The entrance fees shall be waived until January 1, 1927.
Sec. 2.—The annual dues payable by members, whether resident or non-resident, shall be as follows:
   a. By Fellows, ten (10) dollars.
      By Members, seven dollars and fifty cents ($7.50).
      By Associates, four (4) dollars.
      By Juniors, three dollars and fifty cents ($3.50).
   b. Honorary Members shall be exempt from all payments.

Sec. 3.—The annual dues shall be payable on the first day of January, in advance of the ensuing year. It shall be the duty of the Secretary to notify each member of the amount due at the time of giving notice of the annual meeting.

Sec. 4.—Persons elected after July 1st of any year shall pay only one-half of the dues for that year.

Sec. 5.—Any person whose dues are more than three months in arrears shall be notified by the Secretary. Should his dues not be paid when they become six months in arrears, he shall lose the right to vote or to receive the publications of the Institute. Should his dues become nine months in arrears, he shall be again notified in form prescribed by the Board of Direction, and if such dues become one year in arrears, he shall forfeit his connection with the Institute. The Board of Direction may, however, for cause deemed by it sufficient, extend the time for payment for the application of these penalties.

Sec. 6.—The Board of Direction may, for sufficient cause, temporarily excuse from payment of annual dues any member; and the Board may remit the whole or part of dues in arrears, or accept in lieu thereof desirable additions to the library or collections.

Sec. 7.—Every person admitted to the Institute shall be considered as belonging thereto and liable for the payment of all dues until he shall have resigned, been expelled, or have been relieved therefrom by the Board of Direction.

ARTICLE V
OFFICERS

Sec. 1.—The governing body of the Institute shall be a President, Vice-President, a Secretary and a Treasurer and Editor of Publications, six elected Managers, and three appointed Managers who shall together constitute the Board of Direction.

Sec. 2.—The terms of all officers, except the six elected Managers, shall be one year each, and shall begin at the close of the annual meeting at which election is made. The terms of all officers shall continue until successors are duly elected. The President and the Vice-President shall not be eligible for immediate renomination to the same office.

Sec. 3.—Two Managers shall be elected each year and serve for three years.

For the year 1915 six elected Managers were voted upon as follows: The two candidates receiving the highest number of votes to serve three years; the two candidates receiving the next highest number of votes, two years; the two candidates receiving the next highest number of votes, one year.

Sec. 4.—The three appointed Managers shall be chosen by the Board of Direction to serve for terms of one year. These appointed Managers shall have no vote in the election of their successors.

ARTICLE VI
MANAGEMENT

Sec. 1.—The President shall have general supervision of the affairs of the Institute. He shall preside at meetings of the Institute and of the Board of Direction at which he may be present and shall be an ex-officio member of all committees. He shall deliver an address at the annual meeting.

Sec. 2.—The Board of Direction shall manage the affairs of the Institute in conformity to the laws under which the Institute is organized and the provisions of the Constitution. It shall direct the investment and care of the funds of the Institute; make appropriations for specific purposes; act upon applications for membership heretofore provided; take measures to advance the interests of the Institute; appoint all its employees, and generally direct its business. The Board of Direction shall make an annual report at the annual meeting, transmitting the report of the Treasurer and of the other officers and of committees. Five members of the Board of Direction shall constitute a quorum.

Sec. 3.—The Treasurer shall receive all moneys and deposit same in the name of the Institute. He shall invest all funds not needed for current disbursements, as shall be ordered by the Board of Direction. He shall pay all bills, when certified and audited, as provided by this Constitution and by the rules to be prescribed by the Board of Direction. He shall make an annual report and such other reports as may be prescribed by the Board of Direction.

The Board of Direction shall secure a satisfactory surety for the faithful performance of his duties by the Treasurer, and shall renew the same during the month of January of each year.

Sec. 4.—The Secretary will be expected to attend all
meetings of the Institute and of the Board of Direction; prepare the business thereof, and duly record the proceedings thereof. He shall see that all moneys due the Institute are carefully collected, and without loss transferred to the custody of the Treasurer. He shall carefully scrutinize all expenditures and use his best endeavor to secure economy in the administration of the Institute. He shall personally certify the accuracy of all bills or vouchers on which money is paid, and shall countersign the checks drawn by the Treasurer against the funds of the Institute when such drafts are known to him to be proper, and duly authorized by the Finance Committee. He shall have charge of the books of account of the Institute, and shall furnish, when required by the Board of Direction, a statement of receipts and expenses under their several headings, and also a statement of monthly balances. He shall present annually, to the Board of Direction, a balance sheet of his books as of December 31st and shall furnish from time to time such other statements as may be required of him. He shall conduct the correspondence of the Institute and keep full records of the same. He shall perform all other duties which may from time to time be assigned to him by the Board of Direction.

Sec. 5—The Board of Direction may also, if they deem it necessary, appoint an Assistant Secretary, who shall aid the Secretary and be under his immediate direction in all matters.

Sec. 6—The President, as soon as expedient after the annual meeting, shall appoint from the membership, with the advice and consent of the Board of Direction, the following standing committees:

Committee on Papers.
Committee on Standardization.
Committee on Publicity.

Members appointed shall serve until their successors are appointed or the Committees dissolved.

ARTICLE VII

NOMINATION AND ELECTION OF OFFICERS

Sec. 1—Two months before the annual meeting, nominations for the offices of President, Vice-President, Secretary and Treasurer and two Managers, shall be called for from the membership qualified by this Constitution. Before nominees' names are submitted to the membership for final vote, each nominee shall be consulted and if he so requests, his name shall be withdrawn and the next ranking name substituted.

For the year 1915, nominations for six Managers were called for.

One month before the annual meeting, the Board of Direction shall submit to the entire membership excepting Honorary Members and Juniors, a list of all nominees, which list shall consist of the pairs of names receiving the largest number of nominations for each office. In the event of ties in nominations the Board of Direction shall select the name of the man in its opinion best fitted for that office. The membership shall then submit written ballots in plain sealed envelopes enclosed within mailing envelopes marked "Ballot", and bearing the members' signature, voting for officers from the list of nominees. A majority vote received up to the time of the closing of the polls (twenty-four hours before the opening of the annual meeting) shall elect, and no votes by proxy shall be counted. The method of balloting herein described shall be used for nominating as well as for voting, except the outer envelope shall be marked "Nomination" in the former case. In Nominating, as in voting, no proxies or ballots within unsigned outer envelopes shall be opened for counting. Ballots, whether for nomination or voting, shall be checked, opened and counted by a quorum of the Board of Direction, at a regular meeting of the Board. At the time of call for nominations, the Board of Direction shall submit to qualified voters a list of suggested nominations containing at least two names for each office.

Sec. 2—The Editor of Publications shall be elected by vote of the Board of Direction as soon as possible after May 1st.

ARTICLE VIII

MEETINGS

Sec. 1—There shall be an Annual Meeting, at which the annual reports for the year ending December 31st previous shall be presented, and the Ballot for officers reported. At this meeting fifteen (15) members shall constitute a quorum.

Sec. 2—Business meetings shall be held as prescribed by the by-laws.

Sec. 3—In addition to the Annual Meeting, meetings for the reading and discussion of papers shall be held as ordered by the Board of Direction.

Sec. 4—Special meetings may be called by the Board of Direction, and shall be so called upon request of ten members, which request shall state the purpose of such meeting. The call for such meeting shall be issued ten days in advance, and shall state the purpose thereof, and no other
business shall be taken up at such meeting. At these meetings ten members shall constitute a quorum.

SEC. 5—The Institute may adopt, from time to time, rules for the order of business at its meetings.

SEC. 6—Meetings of the Board of Direction shall be held at the time of the annual meeting and at such other times as the Board may determine, but only on notice to all members of the Board by the Secretary. Notices of time and place of meeting are to be mailed in New York at least two days in advance.

ARTICLE IX
AMENDMENTS

SEC. 1—Proposed amendments to this Constitution must be reduced to writing and signed by not less than twenty Fellows, Members or Associates, and be submitted to the entire membership, except Honorary Members and Juniors, who shall vote by letter ballot. The amendment shall be adopted if seventy-five per cent. of the votes received are in favor of such action, the polls having been open for at least one month after mailing to the qualified membership, notices of the proposed amendments. Votes upon the adoption of proposed amendments shall be checked, opened and counted by a quorum of the Board of Direction at a regular meeting of the Board.

AMENDMENTS
INCREASE OF MEMBERSHIP DUES

In October 1919, in accordance with the provision of Section 1, above, the membership approved adoption of an amendment to the Constitution authorizing increasing the dues as follows:

<table>
<thead>
<tr>
<th></th>
<th>Per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fellows</td>
<td>$15.00</td>
</tr>
<tr>
<td>Members</td>
<td>10.00</td>
</tr>
<tr>
<td>Associates</td>
<td>7.50</td>
</tr>
<tr>
<td>Juniors</td>
<td>5.00</td>
</tr>
</tbody>
</table>

At the Board meeting held in January 1920, it was decided to defer advancing the dues to the full amount authorized until a later date. The dues adopted were:

<table>
<thead>
<tr>
<th></th>
<th>Per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fellows</td>
<td>$12.00</td>
</tr>
<tr>
<td>Members</td>
<td>9.00</td>
</tr>
<tr>
<td>Associates</td>
<td>5.00</td>
</tr>
<tr>
<td>Juniors</td>
<td>4.00</td>
</tr>
</tbody>
</table>

On January 1, 1926, the dues were advanced as follows:

<table>
<thead>
<tr>
<th></th>
<th>Per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fellows</td>
<td>$15.00</td>
</tr>
<tr>
<td>Members</td>
<td>10.00</td>
</tr>
<tr>
<td>Associates</td>
<td>6.00</td>
</tr>
<tr>
<td>Juniors</td>
<td>4.00</td>
</tr>
</tbody>
</table>

This leaves the annual dues for Associate and Juniors below the amount authorized by the membership in October, 1919.

On January 1, 1927, the entrance fees were reinstated. These are:

<table>
<thead>
<tr>
<th></th>
<th>$10.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fellow</td>
<td>5.00</td>
</tr>
<tr>
<td>Member</td>
<td>3.00</td>
</tr>
<tr>
<td>Associate</td>
<td>1.00</td>
</tr>
</tbody>
</table>

NOMINATION AND ELECTION OF OFFICERS

In January, 1921, the membership by letter vote approved change in Article VII of the Constitution to read as follows:

Article VII, Section 1 of the Constitution to read:

"Sec. 1—Six weeks before the annual meeting, the Board of Direction shall submit to the entire membership, excepting Honorary Members and Juniors, a list of candidates (nominees) for the offices of President, Vice-President, (Secretary, Treasurer) and two Managers. This list shall comprise at least one name and not more than three names for each office, the names being proposed either by Petition as hereinafter provided, or by (a quorum of) the Board of Direction, at one of these stated meetings. The list shall contain no indication as to whether the candidate has been proposed by Petition or by the Board of Direction.

Nomination by Petition shall be made by letter, naming the candidate, setting forth the name of the proposed candidate and the office for which it is desired he be nominated. For acceptance, a letter of Petition must reach the Board of Direction on or before October 15th of any year, and shall be signed by at least thirty-five Fellows, Members or Associates.

The list of nominees shall contain the names of all candidates proposed by formal Petition or by the Board of Direction, but before this list is submitted to the membership for final vote, each candidate should be consulted and if he so requests, the fact that he has withdrawn from election shall be stated after his name.

The entire membership, excepting Honorary Members and Juniors, shall vote by written ballots in plain sealed envelopes, enclosed within mailing envelopes marked "Ballot" and bearing the member's signature, for the officers
whose names appear on the list of candidates. A majority vote received up to the time of the closing of the polls (twenty-four hours before the opening of the annual meeting, the date of which shall be stated in the election notice) shall elect, and no votes by proxy shall be counted. No proxies or ballots within unsigned outer envelopes shall be opened for counting. Ballots shall be checked, opened and counted by a quorum of the Board of Direction, at a regular meeting of the Board.”

“Sec. 2—The Treasurer, Secretary and Editor of Publications shall be appointed by majority vote of the Board of Direction as soon as practicable after January 15th of each year, for a term of one year or until their successor be appointed.”

BY-LAWS GOVERNING SECTIONS

(The purpose of the Institute in furthering the establishment of Sections is to afford opportunity for members situated in various parts of the United States and other countries to meet in organized groups for the discussion of radio engineering topics.)

1—A petition for the formation of a Section shall be signed by not less than twenty-five members (any grade except Juniors) residing within the territorial limits hereinafter prescribed. The Board of Direction may decline to authorize the formation of a Section when, in its judgment, such an organization would not be compatible with the interests of the Institute.

2—A Section shall be known as: The (name of place or geographical district) Section of the Institute of Radio Engineers.

3—The principal activity of a Section shall be the holding of periodical meetings (monthly or bi-monthly, but not less than five regular meetings annually) for the presentation of original papers or discussions of papers already presented at New York meetings of the Institute, or at other Sections.

4—The territory of a Section shall be the territory naturally tributary thereto, but shall not include territory so remote or inaccessible that members cannot readily attend meetings. For the purpose of determining the maximum amount of money to which a Section is entitled under these by-laws, points more than sixty miles from the regular meeting place of the Section shall not be considered a part of the Section, except when special conditions warrant such action territory within a reasonable distance may be authorized by the Board of Direction. If adjacent Sections should be so situated that the sixty mile limit embraces common territory, the question as to which Section shall claim such members as reside within this common territory shall, if possible, be decided by agreement between the Sections concerned; otherwise by the Board of Direction. (Sections may carry on their mailing list for meeting announcements the names of members located outside of the prescribed Section territory.)

5—The Chairman, Vice-Chairman, Secretary and any other officers of each Section must be Fellows, Members or Associates of the Institute, and shall be elected for the term of one year beginning January 1, or May 1, and until their successors are elected.

6—The Board of Direction may at any time terminate the existence of any Section when in its judgment the interests of the Institute make such action desirable.

7—Papers and discussions presented before a Section and published in the PROCEEDINGS shall not be republished except with due acknowledgment of the original source.

8—Original papers presented before a Section, suitable for publication in the PROCEEDINGS may be presented to the Meetings and Papers Committee for consideration, which, in judging suitability, will be governed by the same considerations applied to similar matter offered from other sources.

9—The Secretary of the Institute will forward to the Secretary of each Section copies of all printed announcements of the regular meetings in New York, and shall forward also to the Secretary of each Section, three complete sets of proofs, or three pamphlet form copies of each technical paper intended for presentation at New York or for publication in the PROCEEDINGS. This latter is for the purpose of supplying Sections with advance copies for Section discussion.

10—Each Section shall have a Meetings and Papers Committee and a Membership Committee, appointed by the Chairman.

11—Each Section shall conduct its affairs in such manner that no indebtedness shall accrue in excess of the amount due annually as per-member rebate, specified in paragraph 12.

12—The appropriation of Institute funds during any fiscal year for aid in Section maintenance shall be the sum determined as follows: one dollar for each Fellow, Member and Associate residing within the territory of the Section at the beginning of the administrative year, namely, January 1. Each year, beginning in 1926, the Treasurer will place to the credit of each Section the accrued rebate cal-
culated from members’ dues paid in the Section as of March 1 and September 1. Section Treasurers may draw upon this account quarterly; that is January 1st, April 1st, July 1st and October 1st.

13—Section Secretaries shall forward to the Secretary of the Institute a report of each meeting held by the Section for the presentation or discussion of papers, and on January 1 of each year a statement of the past year’s accounts.

LIST OF TECHNICAL PAPERS PUBLISHED IN THE PROCEEDINGS DURING THE YEAR 1925

February

A Suggestion for Experiments on Apparent Radio Direction Variations.—L. W. Austin.
Recent Investigations on the Propagation of Electromagnetic Waves.—M. Bauemler.
The Marconi Marine Direction Finder.—H. DeA. Donisthorpe.
Recent Developments in Vacuum Tube Transmitters.—B. R. Cummings.
A Method of Measuring at Radio Frequencies the Equivalent Series Resistance of Condensers Intended for Use in Radio Receiving Circuits.—Charles N. Weyl and Sylvan Harris.

April

Some Trans-Pacific Radio Field Intensity Measurements.—L. W. Austin.
The Magnetron Amplifier and Power Oscillator.—Frank R. Eder.
A Novel Current Supply for Audions.—C. V. Logwood.
Notes on Telephone Receiver Impedance.—E. Z. Stowell.

June

Long Distance Radio Receiving Measurements, in 1924.—L. W. Austin.
Production of Single Side-Band for Transatlantic Radio Telephony.—R. A. Heising.
Re-Radiation from Tuned Antenna Systems.—Henry C. Forbes.

August

(Discussion in December Proceedings.)
PRESENTATION OF TECHNICAL PAPERS

Recent Commercial Developments in Short Wave Transmitters and Receivers.—S. E. Anderson, L. M. Clement and G. C. DeCoutoully.

Design of Telephone Receivers for Loud Speaking Purposes.—C. R. Hanna.

Amplification of Weak Currents and Their Application to Photo-Electric Cells.—G. Ferrie, R. Jonaust and R. Mesny.

Generation of Polyphase Oscillations by Means of Vacuum Tubes.—Rene Mesny.

The Shielding of Electric and Magnetic Fields.—J. H. Morecroft and Alva Turner.

The Straight-Line Frequency Variable Condenser.—H. C. Forbes.

Calculation of the Mutual Inductance of Coaxial Cylindrical Coils of Small Radial Depth.—F. B. Vogdes.

October

The Effect of the Solar Eclipse of January 24, 1925.—G. W. Pickard.

Transoceanic Radio Station at Warsaw, Poland.—W. G. Lush, F. E. Johnson and J. L. Finch.

The Application of the X-L Filament to Power Tubes.—J. C. Warner and O. W. Pike.

Detecting Characteristics of Electron Tubes.—H. M. Freeman.

Life Testing of Tungsten Filament Triodes.—W. C. White.

December

An Investigation of the Transmission on the Higher Radio Frequencies.—A. Hoyt Taylor.

A New Directional Receiving System.—H. T. Fris.

An Analysis of Regenerative Amplification.—V. D. Landen and K. W. Jarvis.

Designs and Efficiencies of Large Air Core Inductances.—W. H. Brown and J. E. Love.

An Efficient Tuned Radio Frequency Transformer.—G. H. Browning and F. H. Drake.

Papers Published in the PROCEEDINGS During 1926

February

Transatlantic Radio Telephone Transmission.—Lloyd Espenschid, C. N. Anderson and Austin Bailey.


The Present Status of Radio Atmospheric Disturbances.—L. W. Austin.

April

Transmission and Reception of Photoradiograms.—Richard H. Ranger.


Recent Advances in Marine Radio Communication.—T. M. Stevens.

The Polarization of Radio Waves.—Greenleaf W. Pickard.

A Method of Calibrating a Low-Frequency Generator with a One-Frequency Source.—Sylvan Harris.

The Shielded Neutrodyne Receiver.—John F. Dreyer, Jr., and Ray H. Manson.

New Method Pertaining to the Reduction of Interference in the Reception of Wireless Telegraphy and Telephony.—H. de Bellescize.

June

Main Considerations in Antenna Design.—N. Lindenblad and W. W. Brown.

Maintaining a Constant Reading on an Ammeter in the Filament Battery Circuit of a Thermionic Triode.—E. H. W. Banner.

Portable Receiving Sets for Measuring Field Strengths at Broadcasting Frequencies.—Axel G. Jensen.

Sources of "A", "B" and "C" Power for Radio Receivers.—Walter E. Holland.

Direction Determinations of Atmospheric Disturbances on the Isthmus of Panama.—L. W. Austin.

Preliminary Note on Proposed Changes in the Constants of the Austin-Cohen Transmission Formula.—L. W. Austin.

Choice of Power for a Radio Station.—N. N. Tsiglinsk and V. I. Volynkin.

August

Collegiate Training for the Radio Engineering Field.—C. M. Jansky, Jr.

Uses and Possibilities of Piezoelectric Oscillators.—August Hund.

Safeguards for the Radio Inventor.—Everett N. Curtis.

KDFA.—D. G. Little and R. L. Davis.

Relation between the Height of the Kennelly-Heaviside Layer and High Frequency Radio Transmission Phenomena.—A. Hoyt Taylor.

Servicing of Broadcast Receivers.—Lee Manley and W. E. Garrity.

October

Reduction of Interference in Broadcast Reception.—A. N. Goldsmith.

Combined Electromagnetic and Electrostatic Coupling and Some Uses of the Combination.—Edward H. Loftin and S. Young White.


Theory of Detection in a High Vacuum Thermionic Tube.—L. P. Smith.

Long Distance Radio Receiving Measurements and Atmospheric Disturbances at the Bureau of Standards in 1925.—L. W. Austin.

Field Distribution and Radiation Resistance of a Straight Vertical Unloaded Antenna Radiating at One of Its Harmonics.—S. A. Levin and C. J. Young.

A Method for Maximization in Circuit Calculation.—Walter van B. Roberts.


December

The Output Characteristics of Amplifier Tubes.—J. C. Warner and A. V. Loughren.

Notes on the Design of Resistance-Capacity Coupled Amplifiers.—Sylvan Harris.

Simultaneous Atmospheric Disturbances in Radio Telegraphy.—M. Bauemler.


Radio Signal Strength and Temperature.—L. W. Austin and I. J. Wymore.

Preferred Numbers.—L. A. Hazeltine.
NOTE

The following list of membership is divided into two sections; the first contains an alphabetical list of members of the Institute of all grades excepting Junior, and the second comprises a geographical list of these members. In the alphabetical portion, the letter and date immediately following the member's name indicate the grade of membership and date of election. Where more than one letter and date group follow the member's name, the subsequent notations refer to the grade and date of transfer to a higher grade. (F) denotes the grade of Fellow; (M) Member; (A) Associate.

Where two addresses are shown, the first one denotes the address for mail. If only a single address appears it is for mail, also.

The geographical list contains the state, and town in which the member is located and his present grade of membership in the Institute.
MEMBERSHIP (Alphabetically)


BACH, ROY A. (A-21), c/o The Pacific Tel. & Tel. Company, Dexter Horton St., New York, N. Y.


BAILEY, AUSTIN (A-22)-M-25, American Tel. & Tel. Co., Rm. 102, 195 Broadway, New York, N. Y. Res: 32 South St., Freehold, N. J.


BAIR, RALPH S. (A-21), Rm. 192, 163 West St., New York City, Res: Main St., Millburn, N. J.


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<tr>
<td>Guthrie, FREDERICK P.</td>
<td>Radio Corp. of America, 11112 Connecticut Ave., New York</td>
<td>11112 Connecticut Ave., New York, N.Y.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Haag, MERVIN W.</td>
<td>1251 Broadway St., Euclid Park, N.Y.</td>
<td>Firm: Radiola Corp. of America, New York, N.Y.</td>
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<td></td>
</tr>
<tr>
<td>Hackbusch, RALPH A.</td>
<td>16 Young St., Hamilton, Ont., Canada</td>
<td>Firm: Canadian Westinghouse Co., Toronto, Canada</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hadden, WESTON A.</td>
<td>1726 Alamo Drive, Brooklyn, N.Y.</td>
<td>Firm: R. Y. Tel. Company, Brooklyn, N.Y.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hagen, B. W. R.</td>
<td>P.O. Box 715, Yakima, Wash.</td>
<td>Firm: 1600 Ingraham St., Los Angeles, Calif.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Han, RICHARD W.</td>
<td>26th Air Service Company, Scott Field</td>
<td>275 26th St., Milwaukee, Wis.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hall, ALFRED W.</td>
<td>1075 W. 8th St., Bridgeport</td>
<td>1075 W. 8th St., Bridgeport, Conn.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hall, RALPH J.</td>
<td>1070 Sheridan Road, Chicago, Ill.</td>
<td>Ill. R. Hall &amp; Company</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hall, NORMAN A.</td>
<td>1725 N. 11th St., Rockford, Ill.</td>
<td>Firm: County Highway Dept., Rockford, Ill.</td>
<td></td>
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</tr>
<tr>
<td>Hall, VICTOR E.</td>
<td>1725 N. 11th St., Rockford, Ill.</td>
<td>Firm: County Highway Dept., Rockford, Ill.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hall, WILLIAM C.</td>
<td>1425 East 5th St., Brooklyn, N.Y.</td>
<td>Firm: Abram &amp; Strauss, Brooklyn, N.Y.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hallen, JOHN T.</td>
<td>1425 East 5th St., Brooklyn, N.Y.</td>
<td>Firm: Abram &amp; Strauss, Brooklyn, N.Y.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hallinan, CLAIR W.</td>
<td>1550 Scientific Ave., Chicago, Ill.</td>
<td>Firm: Radiola Corp. of America, Chicago, Ill.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LEWIS, WILLIAM S. (A'26), Teletype Radio Sales Corp., Inc. 111 N. Harwood St., Dallas, Tex. Res.: 5022 Reiger St., Dallas, Tex.

LEWIS, WILLIAM D. (A'25), 121-23 58th Ave., Richmond Hill, N. Y.


LITIT, FRANK B. (A'26), Carmel, N. Y. Firm: Croton Falls Lighting Corp., Carmel, N. Y.


LIJENTHAL, FREDERICK C. (A'26), 421mathrm St., Hoboken, N. J. Firm: Croton Falls Lighting Corp., Hoboken, N. J.


MOORE, RAYMOND M. (A'23), Moore’s Radio Service, 1527 N. Alvarado St., Los Angeles, Calif.


MORSE, ANTHONY T. & TEL. Radio Sta., Riverhead, Long Is., N. Y.


MORGAN, WALLER V. (A'25), 16 E. 14th St., Apt. 6, Mt. Vernon, N. Y. Firm: Westchester Lighting Co., Yonkers, N. Y.


MORRIS, J. A. (A'22), 56 Cedar St., New Britain, Conn.


MORRISON, HUBER R. (A'30), 2551 North Clark St., Chicago, III. Firm: Smith & Reimann Co., Chicago, III.

MORRISON, I. E. (A'24), 7730 Martin Ave., Chicago, III. Res.: 6080 N. Clark St., Chicago, III.

MORRISON, L. HARTWELL (A'24), Suite de Agua, Chapas, Mexico.

MORRISON, MONTFORD (A'29), 711 West Lake St., Chicago, III. Res.: 1551 Beacon St., Chicago, III.


MOSS, WILLIAM (A'23), 1631 Stanley Ave., Detroit, Mich.


MOULDER, GEORGE C. (A'25), Lebanon, Mo. Firm: Lebanon Battery Service Co., Lebanon, Mo.


MUELLER, PAUL M. (A'26), 120 Dyer Ave., West Hartford, Conn. Firm: General Electric Co., Schenectady, N. Y.


MULLHOLLAND, PAUL C. (A'26), 293 Constitution Ave., Washington, D. C.

MULLINS, HARRY E. (A'24), 104 West 36th St., New York, N. Y.


MURRAY, WILLIAM A. (A'25), Mountain State College, Bozeman, Mont.


NEY, HARRIS B. (A'23), American Tel. & Tel. Co., 195 Broadway, New York, N. Y.

NEILSON, K. B. (A'25), American Tel. & Tel. Co., 195 Broadway, New York, N. Y.


NELSON, JAMES (M'36), 48 Prince St., New York, N. Y. Firm: 7 High St., Bristol, Conn. Firm: 48 Prince St., New York, N. Y.


NELSON, THOMAS F. (A'26), 50 Chestnut St., West Orange, N. J. Firm: West Orange Lamp Co., Bound Brook, N. J. Res.: 50 Chestnut St., West Orange, N. J.

NELSON, BOYD W. (A'26), 369 S. Walnut Ave., Fremont, III. Firm: Lutz Motor Co., Fremont, III.


NEWALL, BENJAMIN (A'21), Sleeper Radio Corp., 5th Ave. & 25th St., Long Island City, L. I., N. Y. Res.: 31-91 Grand Ave., Long Island City, L. I., N. Y.

NEWWELL, HOBART H. (A'22), Wester-}


NEWLAND, CLINTON E. (A'24), 49 St. Louis Ave., Riverside, Ontario, Canada.

NEWLAND, JOSEPH S. (A'23), The New-

NICHOLLS, RALPH N. (A'22), American Art, Apr. 13

NICHOLLS, LEROY C. (A'22), Western Elec. Inst. Corp., 56 Church St., New

NICHOLLS, RAYMOND DE H. (A'25), Station WGR, Hotel Statler, Buffalo, N. Y. Res.: 236 Parkside Ave., Buffalo, N. Y.

NICHOLSON, J. E. (A'22), 161 First North Ave., Eau Claire, Wis. Firm: Nichol-}


NICKEL, FRANK JR. (A'25), 513 Main


NIelsen, JOHN E. (A'25), 4-11 13

NIGEL, J. A. (A'25), Radio Trade

NISHIO, YASUO (A'25), Nippon Elec.

NOBLE, DANIEL E. (A'23), Connecticut Agricultural College, Storrs, Conn. Box


O'CONNOR, ALBERT J. (A'25), A.

O'CONNOR, BOB (A'25), 110 Washington St., Quincy, Mass. Firm: Hub-

O'NEIL, HENRY J. (A'18), 656 Rugby

O'NEILD, CHARLES H. (A'25), c/o New

NORDHEIM, HAROLD L. (A'26), 302 S. N.

OLESN, HAROLD L. (A'26), 302 S. N.

OLIVIERA, ADALBERTO M. (M'20), Bra-

OLIVER, GEORGE (A'23), 219 Federal

OLSON, MARVIN S. (A'25), 7 P. O. Box

OPPENHEIM, WALTER L. (A'25), 145

O'REILLY, RAYMOND (A'25), 215 A

O'REILLY, ROY (A'25), 218 E. 32d

ORAM, DONALD K. (A'21), 863-1/2th

ORMSTON, KENNETH C. (A'17), Califor-

OSTERBROCK, W. C. (A'23), University of California, Berkeley, Calif. Firm: Ex-

OSTLUND, EVERT M. (A'25), 2431 Wil

OSTWALD, ARTHUR A. (A'18-M'23), Bell

OVERAKER, CLAIR M. (A'22), Federal

OVERMILLER, CLAIR M. (A'22), 319

OWEN, CLINTON T. (A'26), 750 E.

OWEN, H. W. (A'25), 750 E. 7th St., Chie-

OWENS, RICHARD M. (A'26), Wostine-

OWNE, CLARENCE (A'25), OXLEY,

OXLEY, ALLAN B. (A'25), Oxley &

OXNER, EDMOND K. (A'11), c/o Apex

PAAR, HARRY F. (A'21), Radiophone Broadcast Station WMGA, Celb

PACENT, LOUIS G. (A'12-15-M'23), 51-

PACKMAN, MAURICE (A'16), 757-759

PAGE, NEWELL C. (A'12), 214 Page

PAINE, DONALD C. (A'25), 250 S. W.

PALS, THOMAS STUART (A'25), 270 -

PALSLEY, ALBERT A. (A'26), 25 Navigating

PALMER, HARRY W. (A'25), 16 Weaver St., Wilcox Hill, Mass. Firm: Rad-


PHILLIPS, LLOYD B. (A'21), 517 Peace St., Chicago, Ill.


POHLMA, JOHN V. (A'26), 8729 N. Artesia Ave., Chicago, Ill. Firm: Catalin Balboa Broadcasting Co., Chicago, III.


POLLIT, FREDK. H. (A'25), 3148 Drexel Blvd., Chicago, III.

POLLIT, LEON G. (A'26), 3141 South Leland Ave., Chicago, II. Firm: Western Union Tel. Co., Water Mill, L. I., N. Y.


POWELL, RALPH C., JR. (A'26), Hotel McAlpin, New York, N. Y. Firm: Associated Broadcasters, Ine.


POWELL, WILLIAM O. (A'26), 255 West 42nd St., New York, N. Y. Firm: Associated Broadcasters, Inc.


POWELL, HARRISON E. (A'26), 235 West 42nd St., New York, N. Y. Firm: Associated Broadcasters, Inc.

POWER, VALDEMAR (A'15-M'19), 333 West 42nd St., New York, N. Y. Firm: Associated Broadcasters, Inc.

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PRAIRIE MEADOWS, 124, U. S. Naval Research Lab., Anacostia, D. C.
MEMBERSHIP (alphabetically)
SMITH, FREDERICK A. (A'19), 230 S. Christian St., Sarina, Ont., Canada.
SMITH, JOSEPH N. (A'26), U. S. R. Do- eatur, No. 311, c/o Postmaster, San Diego, Cal.
SMITH, L. ELDEN (A'20), 410 N. Painter Ave., Whitter, Cal.
SMITH, WALTER C. (A'18), 3930 South 3rd St., Chicago, Ill. Res: 403 39th St., Chicago, Ill.
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SPEAR, LEONARD (A'20), 215 9th St., Davisport, Fla. Res: No. 19 Court, Davisport, Fla.
SPEWBACK, ROBERT H. (A'26), Aurora, N. J. Firm: Spencer Manufacturing Co., Newark, N. J.
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SPIERER, FLOYD O. (A'21), 115-117 Hillside Ave., Jamaica, L. I., N. Y. Firm: Radio Corp. of America, New York, N. Y.
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VAN DER BUIJ, HENDRIK J. (M'17). Electricity Supply Commission, P. O. Box 1981, Johannesburg, South Africa.


VAN DER StANDER, P. (A'25). 11 Steak St., Cleveland, Ohio. Firm: Van Dera Ridge, Cleveland, Ohio.

VOIGHT, RICHARD (A'21). 111 Clinton St., Sandusky, O. Firm: Ohio Pulp Co., Sandusky, O.


VREEGARD, FREDERICK K. (M'16-P'20), Vreeker Corp., 56 West St., New York, N. Y.


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WEBB, J. S. (A17), Dep't of Physics, Lehigh University, Bethlehem, Pa.
WEBER, WILSON E. (A22), 210 Tuscany St., Canton, O. Firm: Ithaca & Huck, Canton, O.
WEENING, SOLOMON M. (A20), 211 Heron St., Brooklyn, N. Y. Firm: Freedman Eisner Radio Corp., Brooklyn, N. Y.
WEIR, IRWIN R. (A25), 119 Union St., Schenectady, N. Y. Firm: Oliver House Telegraphs, Cairo, Egypt.
WEISS, SIDNEY (A21), St. South First St., Brooklyn, N. Y. Firm: Consolidated Co., Inc., New York, N. Y.
WELSH, CARL E. (A25), 1654 Brannan Blvd., Buffalo, N. Y. Firm: Broadcasting Station WKBW, Buffalo, N. Y.
WENSTROM, WILLIAM H. (A25), West Point, N. Y. Firm: F. S. Military Academy, West Point, N. Y.
WENTZEL, A. C., Jr. (A28), 315 Gard- ner Ave., Trenton, N. J. Firm: Eeeo N. Rubke, Trenton, N. J.
WERNER, PIERRE R. (A21), 1912 West 29th St., Brooklyn, N. Y. Firm: C. S. Large Office Bldg., New York, N. Y.
WEST, WILLIAM M. (A26), 533 Hoblet St., St. Louis, Mo. Firm: Collins B. Kennedy Corp., St. Louis, Mo.
WETMORE, THOMAS B. (A20), Arden, N. C. Firm: Briar Estate, Arden, N. C.


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WOODS, WILLIAM (A'15), 591 Ogden Ave., Hubbard, New York, N. Y. Firm: Vocational School for Boys, School of Trade, School of Trade, New York, N. Y.


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WRIGHT, FULLER L. (A'16), 155 Main St., Brockton, Mass.


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YAGER, H. BARTON (A'20), 10 Remsen St., Brooklyn, N. Y. Firm: Broadcasting Co. of America, New York, N. Y.
CATALOGUE OF MEMBERSHIP
January 1, 1927

Arranged Geographically

UNITED STATES

ALABAMA
Fairfield
Hotchkiss, W. A. (A)
Mobile
Babylon, R. A. (A)
Cowin, L. A. Jr. (A)
Selma
Kidd, J. William (A)

ARIZONA
Tucson
Perry, Faye W. (A)
Warner, Earle H. (A)

ARKANSAS
Fayetteville
McKinley, Howard W. (A)
Little Rock
Beem, Raymond M. (A)
Silsoe Springs
Chandler, G. C. (A)

CALIFORNIA
Alameda
Joost, Leall B. (A)
Lubecke, Harry R. (A)
Alhambra
Ashbrook, Roy B. (A)
Pohlmans, G. A. (A)
Altadena
Johnson, Paul F. (A)
Anaheim
Pratt, Haraden (M)
Azusa
Holcomb, Clyde A. (A)
Bell
Anderson, Edward H. (A)
Berkeley
Beres, John T. Jr. (A)
Davie, Daryl D. (A)
Ellor, W. H. (A)
Greene, George L. (A)
McNeer, Earl H. (A)
Tolidinhorin, F. A. (A)
Seiffen, C. V. N. (A)
Wilson, Charles M. Jr. (A)
Bishop
Wheeler, Walter R. (A)
Coronado
Peterson, Arthur W. (M)
Emery Ville
Kennon, Thomas L. (A)
El Centro
Cook, John W. (A)
Parker, Cecil N. (A)
Fresno
Donal, R. C. (A)
Gehrhart, Erle J. (A)
Schulter, Edward A. (A)
Folsom
Thompson, M. J. V. (A)

Glendale
Bowles, Theodore C. (A)
Stratton, R. A. (A)
Winter, Francis H. (A)

Hemet
Cox, Ernest W. (A)

Hollywood
Fech, Harry F. (A)
Pink, Hyman M. (A)
Harrington, F. H. (A)
Hill, Arthur F. (M)
Johnson, C. B. (A)
Martin, Alfred J. C. (M)
Starr, Earl C. (A)
Van Wyk, Forbes W. (A)

Huntington Park
Kimball, Lowell S. (A)

Inglewood
Peterson, Jay (A)

Lankershim
Loomis, Walter H. (A)

Los Angeles
Atkins, Frederick G. (A)
Almerson, James G. (A)
Bennett, Floyd O. (A)
Brown, J. Kenneth (A)
Brown, Nicholas E. (A)
Cheeseman, John W. (A)
Huntington, Wilford Jr. (A)
Hewitt, Fred L. (A)
Hornsby, C. R. (M)
Kofford, Charles P. (A)
Perris, R. H. (A)
Ford, W. H. (A)
Gill, William (A)
Gobat, W. H. (M)
Gulfield, F. H. (A)
Hagen, R. W. R. (A)
Hauser, Carroll R. (A)
Hendrickson, Clayton (A)
Hill, Earle E. (A)
Hopkins, Stephen (A)
Houtz, George R. (A)
Howells, Edgar T. (A)
Jenkins, John J. (M)
Kent, Oliver C. (A)
Lang, William A. (A)
Langfield, Paul D. (A)
Leighton, H. W. (A)
Levensen, Nathan (I)
MEMBERSHIP (Geographically continued)

UNITED STATES (Continued)

Los Angeles (Continued)

Lindsey, W. W., Jr. (M)
Mackey, Frank L. (A)
McDade, W. W., Jr. (A)
McGovern, Francis H. (A)
Murphy, John G. (A)

Pasadena

Brown, Howard C. (A)
Barger, C. L. (M)
Baxter, Frank F. (A)
Smith, Robert L. (A)
West, Charles E. (A)
Moore, Raymond M. (A)

Palo Alto

Cordero, Harry L. (A)
Parker, Albert L. (A)

Redlands

Tuttle, Leon E. (A)

Sacramento

Farrar, Gordon C. (A)
Federer, Vincent J. (A)
Kiser, R. L. (A)
Johnston, John L., Jr. (A)
Stants, Ernest (A)
Weber, Glenn L. (A)

San Bernardino

Ponto, A. E. (A)

San Diego

Cottrell, Gilbert W. (A)
Kilpatrick, J. D. (A)
Rogalski, C. H. (A)
Smith, T. A. (A)
Smith, Joseph N. (A)
Stone, John S. (A)

San Francisco

Bear, William F. (A)
Baker, Crane Y. (A)
Bowers, Leslie L. (M)
Best, Gerald M. (M)
Brewer, Cary K. (A)
Brewer, W. W. (A)
Bullard, Admiral W. H. G. (M)
Burroughs, Charles W. (A)
Bush, Captain George P. (M)
Davies, Francis G. (A)
Day, Lambert P. (A)
Dillon, John F. (A)
Dow, Sydney J. (A)
Patterson, L. E. (A)

San Jose

Schulz, Paul C. (A)
Vallejo

Brown, Archie R. (A)

Tulelake

Brown, E. E. (A)

COLORADO

Aurora

Rohrbach, John D. (A)

Colorado Springs

Nassau, William A. (A)

Delafield

Pulham, Charles H. (A)

Denver

Baldwin, John M. (A)
Baker, A. R. (A)
Culbert, Herbert C. (A)
Dreher, Thomas A. (A)
Dreher, Glen W. (A)
Mother, Catharine C. (A)
Myers, John F. (A)
Poe, Robert S. (A)
Petersen, Frank M. (A)
Reynolds, W. D. (A)
Segal, Paul M. (A)

Fort Lyon

Osborn, Albert S. (A)

La Junta

Carr, Florence D. (A)

Pueblo

Adams, A. L. (A)

CONNECTICUT

Bridgeport

Campbell, Charles H. (A)
Gruen, Lee F. (A)
Ham, Frank M. (A)
Lyon, Elmore (A)
Macintyre, James R. (A)
Motional, George R. (A)

Glastonbury

Berkley, F. Cheney (A)

Greenwich

Minton, Ogden (A)

Harford

Alverson, J. H. (A)
Alcott, George H. (A)
Barnes, Howard N. (A)
Bilbrew, Ewell, S. L. (A)
Boyd, Marshall (A)
Cowles, W. G. (A)
Hendry, Francis C. (A)
Hoffman, Arthur A. (M)
Kurowski, Louis F. (A)
Lindgren, Herman Perry (A)
Pemberton, Harold H. (A)
Ralph, Robert (A)
Soul, Russell G. (A)
Westman, Harold A. (A)
Younce, N. Y. (A)

Hilgram

Baldwin, Beverly R. (A)

Litchfield

Vanderpoel, Floyd L. (A)

Meriden

Dane, Harold F. (A)
Bedford, Knudsen, L. (A)
Merrill, John A. (A)
Willcox, Ernest C. (A)

Middleton

Cady, Walter G. (A)

New Britain

Harrison, Jasmon R. (A)
Van Dyke, K. S. (A)

New London

Johnston, Douglas A. (A)
Morris, J. A. (A)

New Haven

Arthur, William (A)
Doolittle, Franklin M. (A)
Turner, H. M. (A)

Norwich

Hussey, James L. (A)

 Seymour

Dana, Allan S. (A)

South Beach

Yates, Raymond F. (M)

Southport

Lewis, Earl R. (A)

Stamford

Cronkite, Minton (M)

Stonington

Noble, Daniel P. (A)

Stratford

Goiffrey, Charles C. (A)
MEMBERSHIP (Geographically)

UNITED STATES (Continued)

Torrington
Alford, C. G. (A)

Waterbury
Bennett, Morris H. (A)

West Hartford
Kraus, Robert S. (M)
Mueller, Paul M. (A)
Warner, Kenneth B. (M)

Wethersfield
Perry, William A. (A)

DELWARE

Wilmington
Casey, K. K. V. (A)
Ellis, William G. (M)
Henning, C. L. B. (A)

DISTRICT OF COLUMBIA

Anacostia
Hanson, M. P. (A)
Hietalo, E. H. (A)
Taylor, A. H. (F)
Wright, J. Warren (A)

Washington
Austin, Louis W. (F)
Backus, Cyrus D. (M)
Berry, H. P. (A)
Brady, John H. (A)
Brooks, Jefferson D. (A)
Burgess, Warren E. (A)
Challinor, William M. (A)
Cole, Louis (F)
Corbett, W. E. (A)
Corcoran, James T. (A)
Crosley, Alfred M
Dow, T. R. (A)
Dowdhill, Thornton P. (A)
Ellis, George D. (A)
Perris, Malcolm (A)
Gwathmey, Louis J. (A)
Glaston, Stanley (A)
Griff, Abul W. (A)
Guthrie, Frederick P. (A)
Held, Robert D. (A)
Highleyman, Richard M
Hill, Captain Guy (F)
Hixson, J. H. Jr. (A)
Hobbs, William R. Jr. (A)
Horn, Charles A. (A)
Hund, August (M)
Johanson, Albert E. (A)
Johnson, Reverdy (A)
Johnson, Eller B. (A)
Kuhn, George (A)
LeRoy, C. A. (A)
Hamberg, J. O. (M)
May, Albert (A)
Mickle, LeRoy (A)
Mickle, Carlos H. (A)
Pullen, Donald C. (A)
Parkinson, Thad (A)
Powell, Edwin L. (A)
Quinlan, Leal C. (A)
Robich, George J. (A)
Smith, James E. (M)
Squier, George O. (F)
Stewart, Ralph B. (M)
Terrell, Robert L. (A)
Terrell, W. D. (A)
Weber, Carl F. (A)

Willinghby
John A. (A)
Worrell, Robert H. (A)
Young, Albert L. (A)
Young, Lee C. (A)

FLOIDA

Coral Gables
Entzlein, Carl A. (A)

Gainesville
Louches, Ivan H. (A)

Jacksonville
Aymor, Edwin B. (A)
Cooper, John C. (A)

Key West
Kenny, Matthew (A)

Miami
Hansford, Frank B. (A)
Peltier, G. H. (A)

Orlando
Ackerman, Milton J. (A)
Kent, Rose A.

Pensacola
Hallam, John T. (A)

Sarasota
Service, Charles A. Jr. (A)

St. Augustine
Gilchrist, W. (A)

Tampa
Wolfe, LeRoy B. (A)

Winter Park
Lee, William J. (M)

GEORGIA

Atlanta
Chapman, Richard C. (A)
Christy, Lyman (A)
Douglas, Henry F. (A)
Hendley, Perte C. (A)
Moore, George H. (A)
Price, Richard Jr. (A)
Riley, Henry L. (A)
Van Nosdell, Walter Jr. (M)

Columbus
Stuart, John P. (A)

Fort Benning
Akin, Spencer B. (A)

Mineral Bluff
Clement, J. M. (A)

Savannah
Holladay, John W. (A)

Statesboro
Blech, James D. (A)

IDAHO

Leavenworth
Keyes, Edwin F. (A)

Post Falls
Davis, Glennwood (A)

Witters, Ralph H. (A)

ILLINOIS

Aurora
Ills, Floyd D. (A)

Barrington
Pompier, H. F. (A)

Belleville
Bahn, Richard W. (A)

Berwyn
Komm, Paul M. (A)

Bloomington
Stillinger, Arthur G. (A)

Blue Island
Dunn, George J. Jr. (A)

CROOKED CITY
Friend, Halton H. (A)

C настоящего момента необходи́мо обратить внимание на то, что поток текста не прерывался. Вы смогли прочитать все текст, который был предоставлен.

MEMBERSHIP (Geographically)

UNITED STATES (Continued)

Calumet City
Ingersoll, William P. (A)

Caseville
Fred, Jerome F. (A)

Chicago
Adair, Samuel E. (M)
Andrews, Edward P. (A)
Armstrong, H. M. (A)
Arneman, Major George B. (A)
Barrett, Forrest R. (A)
Bergin, A. S. (A)
Bergman, G. A. (A)
Blewell, Dana (A)
David, Arthur F. (A)
Draum, W. C. (A)
Drew, J. J. (A)
Dwight, Samuel A. (A)
Edgar, Dan E. (A)
Emerson, Frank A. (A)
Ewin, Lewis (A)
Fleming, R. H. (A)
Fleming, R. (A)
Folger, Albert S. (A)
Freeman, Henry F. (A)
Fried, David L. (A)
Fried, R. E. (A)
Fries, Henry (A)
Fischer, Andrew Jr. (A)
Forbes, Allan C. (M)
Forsthoff, O. J. (A)
Fortin, Harold (A)
Freiberg, Fred (A)
Friederich, Oliver F. (A)
Frost, Richard L. (A)
Gaines, Benjamin B. (A)
Gardner, Francis S. (A)
Garner, F. E. (A)
Gates, P. E. (A)
Gibbs, Alton B. (A)
Gibson, Miss C. G. (A)
Hall, Edward G. (A)
Hall, Harold R. (A)
Hansen, Clarence A. (A)
Hansen, Leeland S. (A)
Hanson, Earl C. (A)
Harper, W. W. (M)
Harr, J. S. (M)
Hass, Karl E. (M)
Hedtke, Royal H. (A)
Heinen, Andrew F. Jr. (A)
Holroyd, Richard J. (A)
Holub, Wendell L. (M)
Hoepfle, Allen H. (A)
Howard, Austin A. (A)
Inkell, Alexander M. (A)
Ioztork, Michael J. (A)
Jacobson, Theodoor H. (A)
Jelen, Matt J. (A)
Johnson, A. (A)
Kitcher, Edmund M. (A)
Kulas, John S. (A)
Kingsbury, Harvey T. (A)
Kimbrell, George W. (A)
King, Howard E. (A)
Kielbasa, Walter A. (A)
Kleist, Alfred H. (A)
Koch, E. L. (A)
Koppnick, Alexander H. (A)
Kuna, Frank A. (A)
Leffler, Ralph H. (A)
Leidy, William J. (A)
Lilly, Daniel F. (A)
Lipsey, David H. (A)
Magno, John P. (A)
Marco, Frederick J. (A)
Marquis, Harold M. (A)
Marschus, Walter F. (A)
Matthes, Ralph H. (A)
McCorristin, Thomas A. (A)
McMillon, W. F. (A)
Melis, Herman (A)
Merrill, John H. (A)
Miller, John H. (M)
Mt. Elmer B. (A)
Millin, Hyram P. (A)
Morrison, H. (A)
Morrison, J. E. (A)
Morrison, Kenneth (A)
Nichols, Orlando (A)
Nordhaus, Charles H. (A)
Novak, Joe J. (A)
Ostlund, Evert M. (A)
Owen, Edwin K. (A)
Palmer, Lester C. (A)
Parker, Leonard F. (A)
Parkhurst, A. P. (A)
Petoe, Edward R. (A)
Perkins, Lucius J. (A)
Peters, Howard E. (A)
Petit, Leonel (A)
Peterson, Erwin W. (A)
Purcell, Robert (A)
Pohlman, John W. (A)
Polydoroff, W. J. (M)
Pons, Herman (A)
Proctor, Cecil W. (A)
Randall, Harry K. (A)
Redmond, L. (A)
Reichman, Frank (M)
Rice, Ray A. (A)
### UNITED STATES (Continued)

#### Illinois
- **Chicago (Continued)**
  - Riverside
  - Evanston
  - Deerfield
  - Forest Park
  - Highwood
  - Highland Park
  - Hinsdale
  - Homewood
  - Kankakee
  - Kenosha
  - Kewanee
  - La Grange
  - Lake Forest
  - Maywood
  - Oak Park
  - Peoria
  - Quincy
  - Racine
  - Rockford
  - Roscoe
  - Springfield
  - Streator
  - Urbana
  - Waukegan
  - Wheaton

#### Indiana
- **Indianapolis**
- **Evansville**
- **Fort Wayne**
- **Gary**
- **Hammond**
- **Kokomo**
- **Lancaster**
- **Lafayette**
- **North Lafayette**
- **Winamac**

#### Kentucky
- **Louisville**
- **Lexington**
- **Richmond**

#### Louisiana
- **New Orleans**

#### Maine
- **Bangor**
- **Bar Harbor**
- **Dover-Foxcroft**
- **Houlton**
- **Presque Isle**

#### Massachusetts
- **Boston**
- **Cambridge**
- **Shrewsbury**

#### Michigan
- **Detroit**
- **Grand Rapids**
- **Holland**
- **Ypsilanti**

#### Minnesota
- **Minneapolis**
- **Saint Paul**
- **Duluth**

#### Missouri
- **Kansas City**
- **Jefferson City**
- **Columbia**
- **Springfield**
- **St. Louis**

#### Montana
- **Billings**
- **Helena**

#### Nebraska
- **Omaha**

#### Nevada
- **Reno**

#### New York
- **New York City**
- **Albany**
- **Syracuse**

#### Ohio
- **Cleveland**
- **Cincinnati**
- **Dayton**

#### Oklahoma
- **Oklahoma City**

#### Oregon
- **Portland**
- **Salem**

#### Pennsylvania
- **Philadelphia**
- **Pittsburgh**

#### Rhode Island
- **Providence**

#### South Carolina
- **Charleston**

#### South Dakota
- **Sioux City**

#### Tennessee
- **Nashville**
- **Memphis**
- **Knoxville**

#### Texas
- **Dallas**
- **Houston**
- **San Antonio**

#### Utah
- **Salt Lake City**

#### Vermont
- **Montpelier**

#### Washington
- **Seattle**
- **Spokane**

#### West Virginia
- **Charleston**
- **Morgantown**

#### Wisconsin
- **Milwaukee**
- **Madison**
- **Green Bay**

#### Wyoming
- **Cheyenne**
- **Laramie**
### UNITED STATES (Geographically)

#### KANSAS CITY
- Bradley, G. V. (A)
- Devine, William F. (A)
- Goldenberg, H. E. (A)
- Grundy, Richard W. (A)
- Kelly, Millard E. (A)
- MacNeil, E. B. (A)
- McNell, Donald F. (A)
- Phelps, Don J. (A)
- Schilling, John T. (A)
- Shottin, Douglas G. (A)
- Sluder, Odell (A)
- Townsend, Ekin W. (A)
- Wheat, William G. (A)

#### KANSAS
- Henry, Franklin M. (A)

#### KIRKWOOD

#### LINCOLN
- Baudette
- Gjerding, J. A. (A)
- Carver
- Olson, Marvin S. (A)
- Claremont
- Sprunger, Charles F. (A)
- Duluth
- Foss, R. H. (A)
- Hopkins
- Chromy, B. J. (A)
- Faxon, A. E. (A)
- Mankato
- Gordon, E. H. (A)

#### MINNEAPOLIS
- Anderson, Chester H. (A)
- Comly, David M. (A)
- Cottam, Dean F. (A)
- Edwards, Helen W. (A)
- Feldman, Carl B. (A)
- Havelock, Douglas (A)
- Haxen, Robert C. (A)
- Hilliard, John R. (A)
- Humo, A. A. (A)
- Jamsky, Cyril L. (A)
- Schnell, Louis J. (A)
- Sweeney, Claude D. (A)

#### NORTHFIELD
- Cutler, Charles A. (M)
- Thelot, L. M. (A)
- St. Paul
- Harold, Harold A. (A)
- Young, Frank E. (A)

#### MISSISSIPPI
- Greenville
- Sculli, J. Pat (A)
- Meridian
- Woodruff, B. H. (A)

#### MISSOURI
- Cape Girardeau
- Hirsch, Oscar C. (A)
- Columbia
- Michael, Otto S. (A)
- Independence
- Barron, C. R. (A)
- Church, Arthur B. (A)
- Krahl, A. K. (A)
- Jefferson City
- Moler, A. H. (A)
- Roos, Harold R. (A)

### UNITED STATES (Continued)

#### NEW JERSEY
- Allenhurst
- Rollo, C. H. (A)
- Bellmores, Harold M. (M)
- Hasting, John E. (A)
- Theodore, E. M. (A)
- University Place

#### NEW YORK
- Corning
- Davis, R. J. (A)
- New York
- Eger, Joseph E. (A)
- Martin, Julius (M)

#### SUNSET
- Graves, W. S. (A)

#### NEW YORK
- Albany
- Bullock, H. C. (A)
- Columbia
- McCullough, H. S. (A)
- Hilton, Homer (A)
- Mississippi
- Haislip, C. A. (A)
- Missouri
- Northfield
- Oregon
- Salt Lake City
- Utah
- Washington
- Vancouver
- Washington
- Wisconsin
- Wisconsin
- Wisconsin
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<th>UNITED STATES (Continued)</th>
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<tr>
<td>Denville</td>
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<td>3rd District</td>
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<tr>
<td>134 Jersey City</td>
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<tr>
<td>Elizabeth</td>
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<tr>
<td>1st District</td>
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<tr>
<td>135 New Brunswick</td>
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<td>Allen, Charles A. (A)</td>
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<td>New Jersey</td>
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<tr>
<td>136 Newark</td>
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<td>Allen, Michael J. (A)</td>
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<tr>
<td>Orange County</td>
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<tr>
<td>137 Trenton</td>
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<td>Redwood</td>
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<td>2nd District</td>
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<tr>
<td>138 Union City</td>
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<td>Allen, Joseph H. (A)</td>
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<tr>
<td>Ridge Brook</td>
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<tr>
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<tr>
<td>Rockleigh</td>
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<td>141 Woodcliff-on-Hudson</td>
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<td>Roebling</td>
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<td>2nd District</td>
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<tr>
<td>142 Woodbridge</td>
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<td>Allen, Joseph H. (A)</td>
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<th>UNITED STATES (Continued)</th>
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<td>Allen, Joseph H. (A)</td>
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<td>Allen, Joseph H. (A)</td>
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<td>148 Woodcliff-on-Hudson</td>
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<td>Allen, Joseph H. (A)</td>
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</table>

<table>
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<tr>
<th>UNITED STATES (Continued)</th>
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<tbody>
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<tbody>
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<tr>
<th>UNITED STATES (Continued)</th>
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<td>2nd District</td>
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<tr>
<td>148 Woodcliff-on-Hudson</td>
</tr>
<tr>
<td>Allen, Joseph H. (A)</td>
</tr>
</tbody>
</table>
UNITED STATES (Continued)

MEMBERSHIP (Geographically)

Brooklyn (Continued)

Baker, Frederick S. (A)
Brick, Andrew L. (A)
Brandon, W. J. (A)
Brandts, Michael A. (A)
Brady, Arthur A. (A)
Brandt, Krishan A.
Brink, Isaac A.
Bowman, Walter H. (A)
Buckham, John L. (A)
Bullfighter, John S. (A)
Cawdrey, Frank E. (A)
Cudillo, J. Y. (A)
Cumpston, James V. (A)
Curran, James H. (A)
Cox, Alfred (A)
Cove, Fred S. (A)
Coles, Arthur Jr. (A)
Cook, Arthur L. (A)
Densham, Robert S. (A)
Denning, Fred J. (A)
DeSoto, L. A. (A)
Doll, Abraham (A)
Drew, Charles E. (A)
Dunn, Lawrence J. (M)
Edwards, Joseph B. (A)
Frank, Henry A.
Frank, Julius (A)
Futia, M. E. (A)
Funk, Harold H. (A)
Galvin, Samuel (A)
Gardner, William E. (M)
Graff, Michael (A)
Gottlieb, Herman Jr. (A)
Gifford, D. K. (A)
Goldard, Frederick M. (A)
Gonzalez, Emmanuel (A)
Gonzalez, Joseph P.
Grindley, Fred A. (A)
Hadden, Weston (A)
Hajes, Eugene (A)
Hall, William C. (A)
Halligan, C. W. (A)
Hardy, Frank A. (A)
Harmsman, E. (M)
Hedlund, John M. (A)
Hillman, Joseph M. (A)
Hillman, Henry O. (A)
Hillman, W. J. (A)
Houck, William P. Jr. (A)
Inkster, L. S. (A)
Jameson, Herbert M. (A)
Johnson, George E. (A)
Jorgensen, Wesley J. (A)
Kamo, H. P. (A)
Knight, Harold B. Jr. (A)
Koelling, Raymond C. (A)
Krantz, Fred A. (A)
Kroger, P. H. (M)
Lefferts, H. (A)
Le Quenne, Charles A. (A)
Leutze, H. C. (A)
Leonardi, Antonio (A)
Lowry, Charles V. (M)
Lugart, Paul C. (A)
Magnier, Carl A. (A)
Maher, James F. J. (M)
Maroney, Joseph N. (M)
Marriott, Robert H. (P)
Martin, Jesse M.
McCarthy, C. J. (A)
McElwee, W. C. Jr. (A)
Miller, LeRoy J. (A)
Millers, Edward D. (A)
Mize, Frank (A)
Moore, James A.
Moore, Henry H. (A)
Moorehouse, Raymond L. (A)
Morita, C. P. (A)
Muncie, L. F. (A)
Mulligan, William A. (A)
Nicholson, Paul (A)
Parker, Oliver H. (A)
Pincott, Charles H. (A)
Pierce, Herbert B. (A)
Pease, R. M. (M)
Peck, Garden V. (A)
Perry, H. D. (A)
Peterson, Cornelius (A)
Peterson, Edward A. (A)
Pitts, Alphonse E. (A)
Plot, Adolph H. (A)
Reiner, A. C. (A)
Rice, Frank G. (A)
Rice, Abraham (A)
Ricketson, A. F. (A)
Roden, Lester A. (A)
Ross, W. H. (M)
Saul, H. A. (A)
Schley, William H. (A)
Schloegger, Morris (A)
Schramm, Fred W. (A)
Schweitzer, Charles H. (A)
Schweitzer, Paul J. (M)
Schulman, Richard H. Jr. (A)
Siber, E. L. (A)
Sinnheimer, Arthur (A)
Sister, John A.
Smith, Franklin S. (A)
Smith, Perry C. (A)
Sobieski, Jack (A)
Starrett, John S. (A)
Steele, Charles H. (A)
Steinberg, Louis (A)
Stein, Melvin C. (A)
Talley, David (A)
Thomas, William A. 2nd (A)
Troy, Charles H. (A)
Turkman, L. P. (A)
Urschell, Arthur R. (A)
Walker, Paul (A)
Wallstaedt, S. M. (A)
Wales, Sidney G.
Werner, Pierre R. (A)
White, Milton (A)
White, William F. (A)
Woodcock, Norman A. (A)
Yager, H. B. (A)

Buffalo

Bristol, J. B. (A)
Buchanan, John Jr. (A)
Paxton, Leon J. (A)
Eisenstat, Edward J. (A)
Hekt, Louis G. (A)
Hukill, Frank J. (A)
Merrick, David A. (A)
Horace, Lawrence C. (F)
North, B. D. (A)

UNITED STATES (Continued)

MEMBERSHIP (Geographically)

Buffalo (Continued)

Porter, C. J. (A)
Rutledge, Charles H. (A)
Schnurr, Henry H. (A)
Sherman, G. Edmond (A)
Webster, Carl E. (A)
Cantwell, Ward C. (A)
Carvel, John H. (A)
Carnel, Frank H. (A)
Carr, Henry, Henry (A)
Cronk, Lewis (A)
Eidlof, L. L. (A)
Eidsness, James A. (M)
Far Rockaway

Johansen, Albert A. (A)

Graham

Grimm, David (A)

Greece

Clarke, Maurice H. (A)

Hickok

Merritt, Ernst (M)
Meserve, William E. (A)
Heitch, Herbert J. (A)
Smith, Lloyd P. (A)

Jamestown

Turner, Theodore A. (A)

Kemmere

Besek, Charles H. (A)
Henderson, J. L. (A)

Kingsport

Linden, Joseph L. (A)

Lockport

Hendricks, Paul S. (A)
Lewman, R. J. Jr. (M)

LONG ISLAND

Asbury

Auhl, Wilson (A)
Ellis, Charles H. (A)
Grogan, Henry A. (A)
Harrington, Louis (A)
Reynolds, John L. (A)
Toepel, Walter A. (A)

Babylon

Smith, J. O. (M)

Bayville

Walkin, H. H. (A)

Bellevue

Brennan, John J. Jr. (A)

Bricklayers

Campl, Louis, Jr. (A)

Cordova

Johnston, John D. (A)

Dongan Hills

McBride, Wesley B. (A)

Douglas Manor

Wray, Ray A. (A)

East Emmorton

Schneider, Samuel (A)

East Marion

Brown, Jesse E. (A)

Elmira

Bokalewski, George A. (A)
Bokalewski, Warren M. Jr. (A)
Freeman, F. E. (M)
Milton, James (A)
Paulin, W. D. (A)

Flushing

Brandt, Louis H. (A)

Forest Hills

Goodwin, W. C. (A)
Mason, Edward L. (A)
Underhill, Charles R. (A)
Wearne, Alfred (A)

Freeport

Yost, John C. (A)

Garden City

Hemmen, Julian K. (A)
Vince, William B. (A)

Hempstead

McClendon, Harold M. (A)

Hollis

Coxhead, Harry H. (A)
Holt, William F. (A)
Ehler, F. C. (A)
Hotep, Alfred B. Jr. (A)
Midland, Edwin M. (A)
Rigney, Daniel (A)

Huntington

Griffen, Kenneth A. (A)

Jackson Heights

Harrett, Daniel R. (A)

Jamaica

Betcher, Ralph R. (M)
Hendt, Milton (A)
Brown, E. A. (A)
Phelps, Lloyd (A)
Spaw, Floyd, O. (A)
Stairs, Marion W. (M)
Sylvie, T. J. (A)
Wirth, Bernard (A)

Lawrence

Wilson, A. L. (A)

Little Neck

MacDonald, William A. (M)

Long Island City

Hinch, Homer W. (A)
Parmand, C. L. (M)
Harriett, R. (A)
Newell, Benjamin (A)
Topeel, Clarence W. (A)

Oakdale Sta.

Whitman, T. X. (A)

Port Jefferson

Munson, Harvey V. (A)

Richmond Hill

Grebe, Alfred H. (A)
Leh, William B. (A)
Nor, Ernest W. (A)
Orr, Donald F. (A)
Rosewater, Edward (A)
Schafer, J. Peter (A)

Riverhead

Coschale, C. A. (A)
Crosby, Murray A. (A)
Matthes, Walter J. (A)
Petterson, Harold O. (A)
Pflanz, Chas, Christian E. (A)
Buschbost, R. C. (A)

Rockville Center

Cardwell, Allen D. (A)
Chase, George H. (A)
Schutt, William A. Jr. (A)
Wright, Norman F. (A)
New York (Continued)

Marcl, Alfred R. (A)
Nordan, P. H. (A)
Musil, Cesar H. (A)
Martin, De Loss K. (M)
Naurau, John (A)
Maybott, Carleton F. (A)
McFarlane, M. L. D. (A)
McGahan, Donald E. (A)
McLeod, Philip S. (A)
McMillan, Stanley F. (A)
Moffy, James G. (A)
Meyer, Louis F. (A)
Miles, John E. (A)
Miller, Leonard H. (A)
Miller, Marvin L. (A)
Miller, Samuel G. (M)
Mills, John (M)
Millard, Irving (A)
Millor, J. Willard (M)
Molten, Charles F. (A)
Murray, Dyman M. (A)
Morecroft, J. H. (F)
Muller, Herbert W. (A)
Nevison, Bowed S. (A)
Nally, Edward J. (A)
Nance, Curtis H. (M)
Neal, H. R. (A)
Neel, E. L. (M)
Nelson, Gerald D. (A)
Newman, Alfred C. (A)
Nichols, Ralph A.
Nicholls, Leroy C. (A)
Nielsen, John E. (A)
Nixon, John L. (A)
Noden, Harrison (A)
Norberg, Clifford M. (A)
Nyman, Alexander (M)
O'Leary, L. (A)
Ohl, Russell S. (M)
Olde, G. A. (A)
Osborne, Harold S. (A)
Ocayan, Paul C. Jr. (A)
Oswald, Arthur A. (M)
Owens, Richard M. (A)
Palladino, Louis G. (F)
Parker, R. D. (A)
Pate, Carlton O. (A)
Peach, Geo. B. (A)
Petersen, J. C. (A)
Phelan, Thomas E. (A)
Pike, Sidney L. (A)
Pierce, Franklin W. (A)
Plochman, Hans E. (A)
Pitkin, Lester K. (A)
Ports, Earl G. (A)
Putzer, Ralph L. (M)
Powell, Ralph C. Jr. (A)
Powers, Alvin J. (A)
Powell, W. O. (A)
Price, H. Stewart (M)
Pumphrey, Walter H. (M)
Pupin, M. L. (F)
Rager, Richard H. (M)
Reb, Frank F. (A)
Rebek, Samuel (F)
Reither, Herman E. (A)
Repott, Joseph M. (A)
Reoch, A. E. (F)
Reuthe, Gustav (M)
Rhodes, T. B. (A)
Rider, John F. (A)
Ritz, Charles C. (A)
Robertson, W. V. (A)
Rodwin, George (A)
Roos, Oscar C. (M)
Ross, Arthur P. (M)
Ross, R. J. T. (A)
Rossmeisl, Edward C. (A)
Rothman, Abraham (A)
Rutten, Alvin R. (A)
Ryndin, Victor (M)
Rypinski, Maurice C. (A)
Sachs, Harold S. (A)
Sachs, C. F. (A)
Sandall, George T. Jr. (A)
Santer, Anthony S. (A)
Sarnoff, David (F)
Schauffeili, R. F. (A)
Schilling, J. C. (A)
Schenke, Kurtin P. (A)
Schmid, James W. (A)
Schmit, Donald F. (A)
Schneck, Henry L. (A)
Scholl, Nathan (A)
Schole, Frederick (A)
Schultes, Martin A. (M)
Schulze, F-scale (A)
Shannon, James E. (M)
Shannon, Joseph H. (M)
Shaw, E. C. (A)
Silent, Harold C. (A)
Simon, Emil J. (F)
Sine, Edward (M)
Sirelch, Nathan (A)
Sivian, Leon J. (A)
Sleeper, Milton B. (A)
Small, P. L. (A)
Smith, John J. (A)
Snee, Thomas H. (M)
Snook, H. Clyde (M)
Spooner, William G. (A)
Soroh, P. H. (A)
Snow, George D. (A)
Sonnenblum, G. A. (A)
Sonkin, David (M)
Southworth, G. C. (M)
Spencer, E. C. (A)
Spencer, George A. (A)
Spelman, H. Max (A)
Squier, Sidney H. (A)
Sraiage, Clarence A. (M)
Stansel, Frank R. (A)
Stetson, A. E. (A)
Teesa, A. M. (M)
Teese, Charles W. (A)
Taylor, Charles H. (P)
Taylor, Edmund Randolph (A)
Taylor, Roy (A)
Taylor, S. Gordon (A)
Teeter, Albert A. (A)
Terry, L. M. (A)
Terry, Donald, J. (A)
Thomas, Charles H. (A)
Thomas, William M. (A)
Thompson, Albert C. (A)
Thompson, James M. (A)
Thurston, George (A)
Tieney, Walter L. (M)

New York (Continued)

Tooth, Albert P. (A)
Vale, George W. (A)
Vreeker, Frederick K. (F)
Van Wyck, W. P. (A)
Vold, David (A)
Vollrath, H. U. (A)
Wang, Shou Chin (A)
Warr, Maurice (A)
Washington, Bowden (F)
Waterman, F. N. (M)
Watt, Lewis (A)
Weinberger, J. (F)
Weinhold, J. (A)
Whitehead, Jesse C. (A)
Whitling, Donald F. (M)
Whitmore, Lauren E. (M)
Whitman, Leon T. (M)
Wilson, William (M)
Winner, Lewis (A)
Winterbottom, W. A. (A)
Wintroub, W. T. (A)
Wise, Roger M. (A)
Woodrow, William (A)
Wright, Carleton F. A.
Wright, Marshall C. (A)
Young, Owen D. (M)
Yulo, Leslie W. (A)
Zoelner, Harold R. (A)

Niagara Falls

White, J. A. (A)

North Tonawanda

Hill, Kenneth G. C. (A)
Wood, A. A. (A)

Niagara Falls

Freaden, William H. (A)

Oasing

Adlon, H. M. Jr. (A)
Christy, D. P. T. (A)
Govan, Robert F. (M)

Plattsburgh

Hughes, E. C. (A)

Poquonock

Cruice, B. W. (A)

Northfield

North, John M. Jr. (A)

Rochester

Hulbing, Alfred W. (A)
Brown, Gordon P. (A)
Brown, Howard A. (A)
Conover, John A. (A)
Dean, John B. (A)
Dania, Clarence E. (A)
Dey, Leman A. (A)
Dey, Henry E. (A)
Dey, John V. M. (A)
Greenman, Roger B. (A)
Hendler, Eugene V. (A)
Hitchcock, Joseph D. (A)
Huntinton, M. B. (A)
Johnson, M. E. (A)
Kincer, Earl C. (A)
Klumb, Harvey J. (A)
Knudsen, Casper B. (A)

Lovy, Maurice L. (A)
Langworth, Arthur W. (A)
Manson, Ray H. (A)
Mashdon, Reed C. (A)
Martin, Victor G. (A)
McLaughlin, J. L. (A)
Moll, F. A. (A)
Moynside, C. W. (A)
Rosen, Edward A. (A)
Royce, Allan H. (A)
Schneider, Mendel (A)
Schenck, Arthur L. (A)
Slevin, Henry C. (A)
Slater, A. J. (A)
Simpson, A. K. (A)
Sudeikis, Arthur K. (A)
Sutton, Lewis H. (A)
White, W. W. (A)
Wood, M. A. (A)

Saratoga Lake

Williams, T. E. (A)

Scarsdale

Hildreth, Alfred K. (A)
Knusel, Carl (M)

Scherectady

Alexander, R. F. W. (F)
Allen, H. Clifford (A)
Allen, Hugh E. (A)
Andrews, Paul D. (A)
Austin, Edward A.
Ayer, Raymond B. (A)
Baker, W. R. G. (A)
Berghoff, A. F. (A)
Berg, Ernest J. (A)
Bendzela, Bertha M.
Binkman, L. M. (A)
Brochman, Frank C. (A)
Brook, Charles A. (A)
Brown, W. W. (A)
Burhill, Charles M. (A)
Byrne, Irving F. (A)
Carlson, Wendell L. (A)
Carpenter, Glenn (A)
Chittick, Kenneth A. (A)
Crippen, Eugene (A)
Cumming, R. Ray (A)
Dartington, Rev. E. A. (A)
David, W. R. (A)
Dehn, Donald R. (A)
Devold, Albert J. (A)
East, Lawrence A. W. (A)
Edwards, P. J. (A)
Engstrom, Elmer W. (A)
Ford, Warren A. (A)
Forrest, Paul D. (A)
Forth, R. P. (A)
French, Henry G. (A)
Grover, Frederick W. (M)
Hartman, Frank C. (A)
Henyon, George W. (A)
Holmes, R. A. (A)
Howlett, Charles A. (A)
Jackson, Henry W. (M)
Johnson, T. John (M)
Jones, L. P. 3rd (A)
Jones, R. R. (A)
Junkin, L. H. (A)
Khan, I. J. (A)
Kendall, J. M. (A)
### UNITED STATES (Geographically Continued)

#### Schenectady (Continued)
- Kinney, Ely M. (A)
- Knott, William M. (A)
- Lamm, William H. (A)
- Linstead, J. H. (A)
- Long, Arthur V. (A)
- Love, J. Edwin Jr. (A)
- Lyden, William L. (A)
- McCausland, Dr. A. M. (A)
- McCullogh, Samuel H. (A)
- Medd, Milton S. Jr. (A)
- Mendenhall, John H. (A)
- Muller, Dudley A. (A)
- Nolte, Henry J. (A)
- Pike, Otho W. (A)
- Priest, C. A. (A)
- Pulley, Albert A. (A)
- Rice, Chester W. (A)
- Richardson, L. Walter (A)
- Richmond, L. P. (A)
- Rine, Andrew D. (A)
- Roche, John (A)
- Roekwood, Alvin C. (A)
- Rubble, Alfred R. (A)
- Sulenwater, Harry H. (A)
- Scheldorf, Marvin W. (A)
- Simonds, D. T. (A)
- Singleton, Harold C. (A)
- Snyder, Norman (A)
- Stein, Jerome R. (A)
- Steln, A. Am. Jr. (A)
- Sutton, George O. (A)
- Taylor, James C. (A)
- Taylor, L. A. (A)
- Tuttle, Thomas W. (A)
- Vasey, Charles H. (A)
- Wallinhorst, Frank (A)
- Walker, C. L. (A)
- Wajahn, W. H. (A)
- Warren, John C. (A)
- Weir, J. R. (A)
- Wells, Glenn H. (A)
- Weese, J. L. (A)
- Whelan, D. O. (A)
- White, William C. (A)
- Wilson, Donald (A)
- Young, Charles J. (A)

#### South Dakota
- Austin, Kirby B. (A)
- Bannister, C. E. (A)
- Butler, H. R. (A)
- Cook, E. D. (A)
- Fick, Clifford G. (A)
- Frier, Eugene (A)

#### Snyder
- Elder, John G. (A)

#### Stafford
- Satterfield, O. N. (A)

#### Spartan
- Milner, Edward W. (A)

#### Suffern
- Smith, Fred F. (A)

#### Syracuse
- Toff, W. Harrow (A)
- Nerson, E. J. (A)
- Porter, R. A. (A)
- Potter, Melville B. (A)
- Randall, D. P. (A)

#### Tarrytown
- Duggan, Emill (A)

#### Troy
- Ellsworth, W. C. E. (A)

#### Utica
- Hage, Tate M. (A)
- Peck, E. P. (A)
- Pickard, G. H. (A)

#### Watkins
- Fosse, G. C. (A)

#### Welfare Island
- Hurton, Ronald (A)

#### West Alabama
- Miller, Harold D. (A)

#### West New Brighton
- Fletcher, F. S. (A)

#### West Park
- Westmore, W. H. (A)

#### White Plains
- Griggs, Elmer V. (A)
- Halstead, William S. (A)
- Lant, E. B. (A)
- Mason, John P. (A)
- Williams, Walter A. (A)

#### Williamsburg
- Truax, Robert A. (A)

#### Yonkers
- O'Reilly, Hugh G. (A)
- Grand, Jacob (A)
- Runyon, C. R. Jr. (A)
- Turner, John (A)

#### NORTH CAROLINA
- Anderson, Weitmoore, T. H. (A)

#### Charlotte
- G bleak, E. A. (A)

#### Durham
- Seeley, Walter J. (A)

#### Raleigh
- Cox, Major G. C. (A)

#### Wilmington
- Dose, Edward M. (A)

#### NORTH DAKOTA
- Bismarck
- Haus, Merlin W. (A)

#### Fargo
- Hane, Kenneth M. (A)

#### Grand Forks
- Bennett, Robert W. Jr. (A)
- Grady, Earl A. (A)
- Grove, George A. (A)
- Hawks, Vernon P. (A)
- Jenkins, D. R. (A)

#### Mandan
- Northhollen, Andrew W. (A)

#### OHIO
- Akron
- Altenhead, John Jr. (A)
- Jones, Philip Chupin (A)
- Mintz, John W. (A)
- Palmer, Roland F. (A)
- Schwall, Walter J. (A)
- Todd, Roy S. (A)
- Townsend, S. W. (A)
- Weaver, Raymann E. (A)

#### Ashtabula
- Fox, Robert A. (A)

#### Ashland
- Collins, J. A. (A)

#### Ashtabula
- Collins, J. A. (A)

#### Avon Lake
- Harris, John (A)

#### Canton
- Bogg, Charles E. (A)
- Berkheiser, W. M. (A)
- Swallows, Wilson R. (A)

#### Cincinnati
- Allard, Norman B. (A)
- Bostick, Donald F. (A)
- Brink, Walter J. (A)
- Buzzard, E. E. H. (A)
- Coates, Palmer H. (A)
- Croswell, John Jr. (A)
- Grady, George W. (A)
- Greene, Paul M. (A)
- Hayes, Charles (A)
- Israel, Norman D. (A)
- Jarvis, K. W. (A)
- Kellogg, Leonard A. (A)
- Lennick, Guy F. (A)
- Loomis, Ralph H. (A)
- Lehmkuhl, Raymond G. (A)
- Lounsbury, J. B. (A)
- Marzulli, Amot B. (A)
- Oudin, Henry V. (A)
- Osterbrock, W. C. (A)
- Owen, C. H. (A)
- Peterson, C. W. (A)
- Schaefer, C. A. Jr. (A)
- Shoolfield, D. F. (A)
- Steinhilber, Edward L. (A)
- Stollman, Charles M. (A)
- Young, Howard E. (A)

#### Cleveland
- Anderson, R. T. (A)
- Baldwin, L. G. (A)
- Beal, Ira E. (A)
- Black, A. J. (A)
- Boudoulet, Fred T. (A)
- Cady, Donald H. (A)
- Cuniff, Ira A. (A)
- Cusack, S. C. (A)
- David, Bruce W. (A)
- Day, John B. (A)
- Donaldson, Robert O. (A)
- Erwin, W. H. (A)
- Gerber, Howard S. (A)
- Herbst, John A. (A)
- Keimel, J. R. (A)
- Klein, Daniel (A)
- Little, D. E. (A)
- McAdams, H. A. (A)
- McAlister, William M. (A)
- Newman, Joseph S. (A)
- O'Connor, Albert J. (A)
- Peirce, Wilbur G. (A)
- Schramm, Freud (A)
- Scott, Heston S. (A)
- Shimkus, Harry A. (A)
- Stover, John A. (A)
- Walker, George W. (A)
- Wilke, Frank W. (A)
- Weil, Charles A. (A)

#### Columbus
- Cates, Alfred D. (A)
- Evered, William L. (A)

#### Dayton
- Cope, R. R. (A)
- Frew, Clark K. (A)
- Hendricks, Lester A. (A)
- Hines, Albert D. (A)
- Linnwelder, Carl J. (A)
- Smith, H. F. (A)

#### East Cleveland
- Carlson, R. E. (A)
- Ghormly, H. B. (A)
- Leonard, Edwin R. Jr. (A)

#### Elyria
- Schwab, Charles R. (A)

#### Granville
- Clark, James V. (A)

#### Greeneville
- Logan, R. S. (A)

#### Harrison
- Whitehouse, Joseph E. (A)

#### Lakewood
- Curry, Gerald D. (A)
- Marsell, A. A. (A)
- Sturdevant, J. W. (A)
- Warden, Ralph F. (A)

#### Mifflin
- Allen, Alva J. (A)
- Mt. Healthy
- Kilgour, Charles R. (A)

#### New Concord
- Martin, Paul E. (A)

#### Norwalk
- Blair, H. R. (A)

#### Portsmouth
- Fowler, H. C. (A)

#### Sandsky
- Volich, Richard J. (A)

#### Springfield
- Boll, T. A. (A)

#### Toledo
- Foley, J. W. B. (A)

#### Uhrichville
- Mess, John R. (A)

#### Van Wert
- Kettel, Alfred L. (A)

#### Warren
- Fleming, Edward R. (A)
- Gotter, Victor R. (A)

#### Zanesville
- Robson, Samuel L. (A)

#### OKLAHOMA
- Bristow
- Murray, Archie A. (A)

#### Chelsea
- Jones, V. L. (A)

#### Fort Sill
- Schmidke, Ben H. (A)

#### Muskogee
- Kernander, V. H. (A)

#### Norman
- Green, William G. (A)

#### Oklahoma City
- Chalesworth, A. W. (A)
- Cones, R. R. (A)
- Gilloy, Jay P. (A)
- Phillips, James H. (A)
- Wallace, David R. (A)
MEMBERSHIP (Geographically)

UNITED STATES (Continued)

Peckham
Harrow, Edwin C. (A)

Ponce City
Peters, Leo J. (A)

Shawnee
Montgomery, L. E. (A)

Stillwater
Knowles, James C. (A)

Tulsa
Mulhall, Francis L. (A)

Proctor, Edward (A)

OREGON

Eugene
Hopp, Paul R. (A)

Hillsboro
Good, G. D. (A)

Julien, Ira F. (M)

Medford
Koell, L. L. (A)

Portland
Atkinson, Charles L. (A)

Clark, G. W. (A)

Dwyer, Arthur O. (A)

Edison, Howard L. (A)

Johnson, L. W. (A)

Laut, George O. (A)

PENNSYLVANIA

Abington
Weiner, Chas. W. (A)

Adelphi
Woodward, Bruce J. (A)

Allentown
Burnham, Frances J. (A)

Ardmore
Hayes, Ralph S. (A)

Lockland, Ernest T. (A)

Wilkinson, Gordon O. (A)

Yorrell, Howard S. (A)

Bala-Cynwyd
Croft, Samuel Harald (A)

Bermine
Seely, S. W. (A)

Bethlehem
Bennett, Henry (A)

Shubert, John H. (A)

Welch, J. S. (A)

Bryn Mawr
Tuttle, William N. (A)

Chester
Baumgarten, Peter A. (A)

Connellsville
Armstrong, R. M. (A)

Cooper, R. S. (A)

McKinley, J. G. Jr. (A)

Sty, Edward E. (A)

Curwensville
Remington, R. F. (A)

Darby
Knicht, W. W. (A)

East Pittsburgh
Church, L. Warrington (M)

Conrad, Frank (F)

Kistner, S. M. (F)

Sutherland, Lee (A)

Williams, Gordon H. (A)

Edgewood
Lew, L. V. (A)

McCullough, F. S. (M)

Emperium
Blissell, George L. (A)

Erie
Richardson, A. H. (A)

Elna Bragg
Johnstone, R. S. (A)

Gettysburg
Baker, H. W. (A)

Glenfield
Pryor, William D. Jr. (A)

Glenville
Griffith, Charles H. (A)

Greensburg
Hawk, William K. (A)

Harriburg
Gardner, W. L. Jr. (A)

Grim, Cleo B. (A)

Novinger, Earl M. (A)

Pfeifer, Ralph M. (A)

Sawyer, C. N. (A)

Steiger, Charles H. (A)

Thraul, Paul W. (A)

Kingston
Brown, Ralph M. (A)

Lancaster
Gallant, R. J. (A)

Haselden, Charles C. (A)

Mathieson, J. R. (A)

Landsdowne
Augustus, Earl W. (A)

Lemoyne
Schwanger, Robert M. (A)

Media
Delbert, Simon, Jr. (A)

Melrose Park
Driscoll, Albert J. (A)

Minersville
Kear, Frank G. Jr. (A)

Northumberland
Koehler, Blake B. (A)

Saxton, William L. (A)

Pennsylvania
Arnold, John P. (A)

Barrett, W. M. (A)

Bosson, Thomas W. (A)

Cohen, Herbert L. (A)

Brown, Henry J. (A)

Brown, W. W. (A)

Brown, William L. (A)

Buch, Louis H. Jr. (A)

Burnside, D. G. (A)

Cook, Don C. (A)

Dey, H. H. (A)

Dietz, Edward J. (A)

Ehrle, Cornelius D. (F)

Hilton, Harry (A)

Evans, Frank (A)

Fithian, William S. (A)

Fostet, Fred E. (A)

Freedman, H. J. (A)

Philadelphia (Continued)

Goldman, Albert P. (A)

Gould, Eugene S. (A)

Hitch, Earl H. (A)

Holladay, Walter E. (M)

Holtzer, Ralph (A)

Kline, F. W. (A)

Lloyd, R. E. (A)

Logan, William S. (A)

MacCollin, Wilford G. (A)

MacLean, William L. (A)

MacNeil, Yale (A)

Meager, George (A)

Miller, John M. (F)

Mills, Richard S. (A)

Mooreland, H. (A)

Moor, John Jr. (A)

Nassau, Joseph M. (A)

Neuman, Benjamin R. (A)

Nicholson, F. H. (A)

Nicolai, Frank Jr. (A)

Ogden, Walter L. (A)

Ornels, Alfred (A)

Rauh, John W. (A)

Schoen, William (A)

Schumacher, J. G. (A)

Shore, Albert G. (A)

Snyder, R. L. (A)

Spender, Raymond M. (A)

Stewart, George (A)

Thompson, Esland F. (A)

Trinkle, W. S. (A)

Tufts, C. D. (A)

Tuttle, R. B. (A)

Van Horn, J. C. (M)

Van Hornes, C. H. (A)

Wolfe, Charles N. (M)

Wors, J. Vinton (A)

Phoebe Veste, Albert J. (A)

Hubbard, Wallace C. (A)

Pittsburgh
Arnold, James C. (A)

Bamberg, Frank A. (A)

Burr, A. Joel (A)

Carothers, W. D. M. (A)

Chambers, J. O. (A)

Colman, John B. (A)

Davie, R. L. (A)

Dill, George C. (A)

Farnley, Henry C. (A)

Ferrall, Edward L. (A)

Germain, Robert C. (A)

Greenhale, G. H. (A)

Griffith, L. T. (A)

Griffin, William L. (A)

Johnson, Allan T. (A)

Joliet, Francis (A)

Kettner, Donald G. (A)

McElroy, W. R. (A)

Mercer, Leonid A. (A)

Sewell, William L. (A)

Shuster, Paul F. (A)

Steele, Stephen A. (A)

Terry, Lewis W. (M)

Thomas, William K. (A)

Wagner, Parker E. (A)

Port Kennedy
Harmon, Walter S. (A)

Pottsville
Lew, Cornelius, L. B. (A)

Reading
Albert, William V. (A)

Richluk, E. H. (A)

Richluk, Louis H. (A)

Scranton
Dolphins, Stanley E. (A)

Guert, Frederick (A)

Irons, Irene M. (A)

Svensen, Charles H. (A)

Witkowski, J. F. J. (A)

St. David's
Stewart, Charles H. (M)

Sharon
Rums, Samuel A. (A)

Smethport
Broad, Fred H. (A)

Tuohey, William L. (A)

South Bethlehem
Seyfert, Stanley S. (M)

Sunnybrooke
Van Hornes, C. H. (A)

Swarthmore
Farb, Frank M. (A)

Pound, Lewis A. (A)

Southside
Enfield, Samuel (A)

Towel, William L. (A)

Upper Darby
Churchill, N. M. (A)

Sheriff, John L. (A)

Wernersville
Stanton, R. E. (A)

West Philadelphia
Knoll, Lloyd M. (M)

Munsey, Allen R. (A)

White Haven
Ballantine, Stuart (A)

Wilkes-Barre
Slezak, J. H. (A)

Wilkinsburg
Lindley, William E. (A)

Babcock, James R. (A)

Leslie, M. C. (A)

Liddel, Clarence A. (A)

Dukellis, C. W. (A)

Elliott, Charles A. (A)

Fulkerson, Robert B. (A)

Horn, Charles W. (A)

Irwin, Herbert W. (A)

Jenkins, F. J. (A)

Koch, W. E. (A)

Sang, Anthony (A)

Transant, Virgil E. (A)

Williamsport
Dickert, James E. (A)

York
Lever, P. F. B. (A)

Ottwell, Charles M. (A)

RHODE ISLAND

Eden Park
Cuneford, Arthur R. (A)

Edgewood
Gunnell, Walter W. (M)

Narrangansett Pier
Dow, Harold C. (A)
### UNITED STATES (Continued)

**Newport**
- Grafe, Hans H. (A)
- Jones, John E. (A)

**Princeton**
- Cote, Omer E. (A)
- Laurent, Herbert St. (A)
- Zimmerman, J. P. (A)

**SOUTH CAROLINA**
- Clemen College
  - Harrison, Paul J. (A)

**Spartanburg**
- Bannock, Philip C. (A)

**SOUTH DAKOTA**
- Brookings
  - Cather, H. M. (A)

**Rapid City**
- Halley, S. R. (A)

**Kalamazoo, J. O. (A)**

**Vermillion**
- Caseady, Charles J. (A)

**TENNESSEE**
- Chattanooga
  - George, E. R. (A)

**Dayton**
- Moore, W. Hall (A)

**Knoxville**
- Hutchinson, C. (A)

**McMurray**
- Wilson, W. H. (A)

**Nashville**
- Bonton, T. L. (A)

**TEXAS**
- Angleton
  - Beaver, Carey P. (A)

**Beaumont**
- Trefor, C. B. (A)

**Beaumont**
- Hall, Henry W. (A)

**Bremond**
- Stewart, William H. (A)

**Cedar Hill**
- Wilson, D. V. (A)

**College Station**
- Yates, Clarence C. (A)

**Dallas**
- Ariz, M. (A)

**El Paso**
- Coffer, W. H. (A)

**Fort Collins**
- Walsh, S. M. (A)

**Fort Worth**
- Branch, William E. (M)

**Houston**
- Austin, Francis M. (A)

**Chinden, G. R. (A)**
- Duncan, James E. (A)

**Dupree, E. M. (A)**
- Haskins, Albion A. (A)
- Patchin, N. A. (A)

**Peck, Lewis A. (A)**
- Hicker, Norman H. (A)
- Strait, Rechel M. (A)

**Mercedes**
- Schultze, Ray M. (A)

**Orange**
- Daane, E. M. (A)

**Santo Antonio**
- Ector, W. G. (A)

**Norwich, David W. (A)**
- Rayburn, Geoffrey H. (A)

**San Benito**
- Edelbrock, Ifford G. (A)

**Waco**
- Jackson, Frank P. (A)

**UTAH**
- Eureka
  - Manly, Donald L. (A)

**Salt Lake City**
- Johnson, Art. (A)

**VERMONT**
- Smethfield
  - Farr, Alton E. (A)

**VERMONT**
- Danville
  - Cluche, Allen S. (A)

**Lamphere Field**
- Culver, C. C. (M)

**Norfolk**
- Kelly, George W. (A)

**Portsmouth**
- Strout, J. C. (A)

**Reeoke**
- Audion, Francis E. (A)

**WASHINGTON**
- Bremerton
  - Burke, W. S. (A)

**Bremerton**
- Democrat, Ralph W. (A)

**Demuth, Orin A. (A)**
- Dow, Jennings H. (M)

**Greenway, Lewis D. (A)**
- Griffith, M. H. (M)

**Griffith, Samuel S. (F)**
- Hickey, John E. (A)

**Milwaukee**
- Aches, Roy O. (A)

**Holtz, Archie L. (A)**
- Demarest, Harry A. (A)

**Dow, Jennings H. (M)**
- Dow, Jennings H. (M)

**Greenway, Lewis D. (A)**
- Griffith, M. H. (A)

**Hollister, Samuel S. (F)**
- Howlett, John E. (A)

**Seattle**
- Aches, Roy O. (A)

**Bremerton**
- Burke, W. S. (A)

**Demurrer, Ralph W. (A)**
- Demuth, Orin A. (A)

**Dow, Jennings H. (M)**
- Dow, Jennings H. (M)

**Greenway, Lewis D. (A)**
- Griffith, M. H. (A)

**Hollister, Samuel S. (F)**
- Howlett, John E. (A)

**Milwaukee**
- Aches, Roy O. (A)

**Bremerton**
- Burke, W. S. (A)

**Demurrer, Ralph W. (A)**
- Demuth, Orin A. (A)

**Dow, Jennings H. (M)**
- Dow, Jennings H. (M)

**Greenway, Lewis D. (A)**
- Griffith, M. H. (A)

**Hollister, Samuel S. (F)**
- Howlett, John E. (A)

### UNITED STATES (Continued)

**Seattle (Continued)**
- Bremerton, W. R. (A)
- Dow, Jennings H. (M)
- Greenway, Lewis D. (A)
- Griffith, M. H. (A)

**Hollister, Samuel S. (F)**
- Howlett, John E. (A)

**Milwaukee**
- Aches, Roy O. (A)

**Bremerton**
- Burke, W. S. (A)

**Demurrer, Ralph W. (A)**
- Demuth, Orin A. (A)

**Dow, Jennings H. (M)**
- Dow, Jennings H. (M)

**Greenway, Lewis D. (A)**
- Griffith, M. H. (A)

**Hollister, Samuel S. (F)**
- Howlett, John E. (A)

### CANAL ZONE

**Barrick, G. B. (A)**
- Crawford, D. H. (A)
- Lyman, Reginald F. (M)
- Paton, Daniel P. (A)

### HAWAII

**Butch, J. H. (M)**
- Butch, J. H. (M)
- Fritz, Cyphe, H. (A)

### PHILIPPINE ISLANDS

**Butch, J. H. (M)**
- Butch, J. H. (M)
- Fritz, Cyphe, H. (A)

### CANADA

**ALBERTA**
- Louie, William L. (A)

**BRITISH COLUMBIA**
- Hawkins, Leslie R. (M)
- Hilton, F. A. C. (A)
- Sargeant, Frank Jr. (A)
- Smith, Jesse H. (A)
BRITISH ISLES (Continued)

England (Continued)

Allen, J. T. (A)
Allen, C. G. (A)
Alston, W. A. (A)
Andrews, W. A. (M)
Appleton, Edward W. (A)
Appleton, William A. (A)
Ashwin, C. W. H. (A)
Atkinson, C. T. (A)
Atkin, Bernard J. (A)
Baldileigh-Bell, D. H. (A)
Baldileigh, D. H. (A)
Baldileigh, Frederick (A)
Baldileigh, Thomas T.
Bakker, E. H. W. (A)
Barber, William E. (M)
Barrett, M. A. F. (A)
Barrett, Walter S. (A)
Barrington, R. N. (M)
Bates, Cyril R. (A)
Becker, A. J. M. (A)
Bevan, Isadell (M)
Bevan, Harry L. (A)
Bowie, F. A. (A)
Bowie, Charles W. (M)
Brady, Edward (A)
Brans, A. W. (A)
Brigden, William G. (A)
Brooke, William H. (A)
Brow, Stanley (M)
Brown, Walter J. (M)
Bulgin, Arthur F. (A)
Burke, W. J. H. (A)
Burrough, M. (A)
Burrows, W. W. (F)
Burns, M. E. (A)
Carpenter, Rupert A. H. (M)
Carter, William (A)
Cottingham, Gordon (A)
Crawford, J. S. E. (M)
Cunliffe, Herbert (A)
Cunliffe, J. S. E. (M)
Dawson, W. (A)
De Burgh, E. H. (M)
De Burgh, Robert G. (M)
Ditchburn, W. M. (M)
Diver, P. G. (A)
Dowsett, H. M. (M)
Duckworth, William H. (A)
Dutton, P. G. (F)
Eades, Noel (A)
Edwards, Norman F. (M)
Edwards, Cyril F. (F)
Erickson, B. W. (A)
Erickson, James (F)
Evans, W. W. P. (M)
Everett, A. R. (A)
Faulkner, Harry (M)
Featherstone, W. A. E. (A)
Field, Enosce, H. W. (A)
Field, W. H. F. (A)
Flegg, L. B. (A)
Fletcher, C. N. (A)
Flintham, Herbert (A)
Ford, H. D. G. (M)
Freake, C. J. J. (A)
Fulcher, William (A)
Gambrell, Horace W. (A)
Gee, H. P. T. (A)
George, Phillip H. E. (A)
Gill, A. J. (M)
Gleneden, William (A)
Glossop, Arthur C. (A)
Gray, Richard E. (A)
Green, Ernest (A)
Hall, Alex J. (A)
Hall, Alfred W. (A)
Hall, Norman (A)
Hambling, A. W. (A)
Hampton, Charles E. (A)
Hansford, R. V. (M)
Harris, A. L. (M)
Harris, Percy W. (M)
Harvey, Herbert J. (A)
Heatley, Oliver (A)
Heard, James F. (M)
Hilbold, Reginald J. (M)
Hines, C. C. A. (A)
Hines, G. B. (A)
Hines, H. J. (A)
Hinton, Norman P. (M)
Hobbs, William M. (A)
Holme, Leslie (A)
Hosker, H. H. G. (A)
Hughes, Lionel J. (A)
Ingham, Frank (A)
Ison, W. (A)
Jarrett, Cyril R. (A)
Jones, A. B. (A)
Jones, Clifford (A)
Jones, E. F. C. (A)
Joseph J. (M)
Kendall, John (M)
Kelsby, Donald (A)
Kling, Horrie J. (A)
Klens, H. L. (A)
Kleven, R. H. (M)
Knight, Arthur W. (A)
Laurence, W. E. (A)
Lamb, William H. (A)
Lampe, Thomas M. C. (A)
Lane, Ronald C. (M)
Lassman, H. H. (A)
Lee, A. G. (A)
Lequesne, William (M)
Letchfield, Gordon A. (A)
Littlefield, H. A. (A)
Lloyd, John A. (A)
Loerich, Alfred M. (A)
Lyde, Herbert R. (A)
Madden, W. Arthur (A)
Mansell, H. L. (M)
Mansfield, Laurence (A)
Maxwell, C. (F)
Marsh, J. Bowland (A)
AFRICA (Continued)

South Africa (Continued)

Pepper, F. A. P. (M)
Swart, J. G. (M)
Van Der Bijl, J. H. (M)

SUDAN

Williams, R. T. (M)

ASIA

Birma

Mitchell, J. W. (A)

China

Burne, E. J. (A)
Chang, Ting-Chin (M)
Chen, Shujian (A)
Chu, K. T. (A)
Dockray, Stephen T. (M)
Eng, David J. (A)
Fong, George T. W. (A)
Gee, Walter Charles (A)
Kamary, O. (A)
Kimura, Akio (A)
Kime, T. (M)
Lee, T. M. (A)
Mead, M. (A)
Monk, Walter W. (A)
Nee, Sung (A)
Ono, Hidejiro (M)
Rall, Thomas H. (A)
Saltow, R. A. (A)
Takahashi, S. (A)
Wilford, George M. (A)
Young, H. Y. (A)

FEDERATED MALAY STATES

Carr, Andrew U. (A)
Peck, G. T. (A)
Wilkinson, J. A. (A)

INDIA

Chapman, T. J. (A)
Harper, Edgar (M)
Haynes, W. Caswall (M)
Kantakari, S. R. (A)
Lea, George (A)
Scliff, A. M. (A)
Thompson, Herbert M. (A)

IRAQ

Adams, Frank S. (A)

JAPAN

Akasaka, Toshi (A)
Amano, Tsuneji (A)
Arakawa, Myutaro (A)
Ashihamoto, S. (A)
Hariteishi, J. (A)
Masumoto, K. (A)
Mitsunaga, Hideki (A)
Morimoto, Kinjiro (M)
Nakamura, Tsunehide (M)
Nakamura, T. (A)
Nambara, H. (A)
Namba, Y. (A)
Naka, T. (A)
Nakazato, T. (A)
Nakayama, Takeshi (M)

AFRICA

Africans

Tshebayo, A. (A)
Terblanche, E. A. (A)
Tschiemei, Yonel (A)
Wakamoto, Osamu (M)
Watanabe, Hidemura (M)
Yagi, Hidetsugu (A)
Yokoyama, Eiichi (A)
Yoshida, Y. (A)
Yoshitake, Kazuo (A)

BERMUDA

Cockburn, Walter E. (B)
Rutherford, Charles R. (B)

CENTRAL AMERICA

BRITISH HONDURAS

Barrett, Leonard H. (M)

COSTA RICA

Carranza, J. (M)

HAITI

Millet, M. H. (A)

CUBA

Ballard, William R. (A)
Feray, R. A. (A)
Lars, Vasa Juo (A)

MEXICO

Cota, Pedro N. (A)
Crues, Henry (A)
Erick, James F. (A)
Morrison, L. H. (A)
Ramos, Pernando J. (M)
Rams, Dilek (M)
Sanders, Raymond A.

EUROPE

BELGIUM

Phipps, Albert M. (M)

CZECHOSLOVAKIA

Nusbaum, Jeromir (M)

DENMARK

Christensen, Jens P. (A)
Hegedorn, Frederick M. (A)
Holvstrom, O. (A)
Jensen, N. P. H. (A)
Sybolin, Christian (M)
Pederen, Martin P. (A)
Pederen, Peter O. (A)
Putnam, Valdemar (F)
Reynolds, R. M. (A)
Schow, Carl (A)

FRANCE

Bock, Ludwig (A)
Benthose, Jos. P. J. (A)
Deakin, Gerald (A)
De Bellus, Edward (M)
De Bonneaud, Guy (A)
Deberdt, Edmund M. (M)
Ferris, General (F)
Levy, Lurie (M)
Olivero, Alfredo (A)

GERMANY

Barkhausen, G. H. (A)
EUROPE (Continued)

Germany (Continued)

Gheorghiu, C. A. (A)
Hannam, Arthur (A)
Hausdorff, Max M. (A)
Hofmann, A. Clemens (A)
Meisner, Alexander (F)
Schild, George (M)
Zenneck, Jonathan (F)

HOLLAND

De Graaff, A. (A)
De Groot, C. J. (F)
Liebert, W. (M)
Rietveld, G. H. (A)
Van Der Hilt, C. L. (A)
Van Der Pol, H. (M)
Detshy, Charles F. (A)

POLAND

Modrak, P. (A)
Raymowski, E. (A)

PORTUGAL

Dennis, Frank L. (A)
Martins, Almir (A)
Tissot, Henry S. (M)

SPAIN

Alonso, Julio (A)
Crespo, Jose (M)
Cuervo, Luis S. (A)
De Urruti, Ricardo M. (A)
Escolano, Manuel (M)
Ruiz, Austin M. (A)
Wendell, E. N. (A)

SWEDEN

Fransson, F. (A)
Lemola, A. S. (A)
Sterky, H. K. A. (A)
Vedeler, Edy (A)

SWITZERLAND

Anschei, S. C. (A)

U. S. S. R. (RUSSIA)

Bekmenoff, Valerian T. (M)
Kocentino, Serge N. (A)

OCEANIA

DUTCH EAST INDIES

Vedam, N. H. (M)

FRIENDLY ISLANDS

Land, John R. (M)

NEW ZEALAND

Bingharn, John M. (A)
Brent, Herbert C. (M)
Davies, John L. (M)
Ewen, L. K. (A)
Russell, Cecil B. (M)
Taylor, Conway (A)
Wyles, David G. (M)

AUSTRALIA

Dinie, John L. (M)
Hardin, William F. (A)
Fisk, Ernest T. (F)
Hayman, W. G. (A)
Hull, Ross A. (A)
Malone, James J. (M)
MacDonald, Arthur S. (M)
Nerin, Gordon H. (A)
Sutherland, G. H. (A)
Sweeney, Walter M. (M)
Thompson, Cecil (A)

PORTO RICO

Agusti, J. (A)
Fisher, J. Joseph (A)
Mayer, Everett W. (A)

SOUTH AMERICA

ARGENTINA

Daunina, Juan Pablo (A)
Hayes, George W. (A)
Havens-Hart, R. J. M. (M)

BRAZIL

Barreto, M. de H. (F)
Lacombie, Carlos G. (A)
Lush, W. G. (A)

BRITISH GUIANA

Jarman, Alec D. (A)

CHILE

Alberto, R. Brito (M)
Daley, Francis T. (A)
Diamond, Harvey (A)
Seabron, Dale L. (A)

PERU

Kennedy, H. Spencer (A)

WEST INDIES

Fenty, William C. (A)
Salter, David (A)