

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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Sectional Committee on Preferred Num-
bers L. A. HAZELTINE

GENERAL INFORMATION

Institute History

Prior to the formation of the Institute of Radio Engi-
neers, 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,
and Fritz Lowenstein. Those identified with the initial
work of the Wireless Institute included: John S. Murphy,
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 Shoe-
maker 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. Hogan, A. N. Gold-
smith, 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 member-
ship, either through their interest in radio communication,
or by practice of some phase of radio engineering as a pro-
fession. The eligibility of an applicant to membership in
any grade is finally determined by the Board of Direction
of 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 completely 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. Alexanderson 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. Weagant.....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.

MEMBERSHIP REQUIREMENTS, FEES, ETC.						
Grade	Minimum Age	Years Active in Radio Engineering	References Required	Entrance Fee	Transfer Fee to Next Grade	Annual Dues
Fellow	30	7	Five Fellows	\$10	—	\$15
Member	25	4	Five Fellows or Members	\$5	\$5	\$10
Associate	21	A Person Who is Interested in or Connected with the Radio Arts.	Five Fellows, Members or Associates	\$3	\$1	\$6
Juniors	16*	A person Interested in the Study of Radio.	Five Fellows, Members or Associates	\$1	\$2	\$4

*The maximum age of a Junior member is 20 years. Upon attaining the age of 21, the Junior member is transferred to the grade of Associate.

†In the case of the Junior or Associate applicant who is unable to supply the names of five members of the required grade, it is sufficient, usually, if the names of five business associates or friends are given. These should preferably be persons engaged in engineering or scientific work.

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



on both sides and is provided with a ring for suspending the charm from a watch chain or fob. The lapel pin is priced at \$3.00 (any grade) and the watch charm is supplied at \$5.00 (any grade). Either of these may be ordered through the office of the Secretary.

Certificates of Membership

Membership cards are sent to Associate and Junior members each year. Upon application to the Secretary's office diplomas for members of 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, Ill.

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, 1533 Pine Street, Philadelphia, Pa.

ROCHESTER SECTION—V. M. Graham, Chairman; Harvey Klumb, Secretary, 34 Clinton Ave., Rochester, N. Y.

SAN FRANCISCO SECTION—Col. J. F. Dillon, Chairman; D. B. McGowan, Secretary, Custom House, San Francisco, Calif.

SEATTLE SECTION—John Greig, Chairman; R. B. Wilson, Secretary, 1132 Highland Ave., Bremerton, Wash.

WASHINGTON SECTION—Dr. A. Hoyt Taylor, Chairman; F. P. Guthrie, Secretary, 1112 Connecticut Ave., Washington, D. C.

Procedure to be Followed in Forming a Section

In forming a Section of the Institute, the following is the approved procedure:

a. Carefully read the "By-Laws Governing Sections" found on page 32 of this book.

b. Make a tentative canvass of the members residing within the territorial limits of the proposed Section. If at least twenty-five (preferably thirty-five) Associates, Members or Fellows favor and will support a Section, if established, obtain from Institute Headquarters a petition form. In making this tentative canvass effort should be made to obtain applications from desirable and eligible non-members. Wherever there are less than twenty-five members of the Institute but it is felt that applications can be obtained from the necessary number of eligible non-members, this tentative canvass may be made and the membership applications forwarded to the Institute's Offices. In making this tentative canvass consideration should be given to the probable permanent Chairman and other officers of the Section, if formed. Much of the success of a Section depends on the calibre of the Chairman and the interest taken by him in the affairs of the Section. Institute Headquarters, therefore, would like information as to the probable candidates at the time the request is made for the petition forms.

c. On receipt of the petition forms and list of members residing within the territorial limits, an organization meeting should be called for the purpose of obtaining signatures to the petition, and to form a temporary organization.

d. The petition form, properly signed by the required number of members and accompanied by the minutes of the temporary organization meeting, should then be forwarded to the Institute Headquarters for presentation to the Board of Direction.

e. Upon receipt of the approval of the Board of Direction of the Institute, a meeting should be called for the purpose of forming the permanent organization.

tion. At this meeting the officers of the Section should be elected and the several standing Committees organized.

f. Thereafter not less than five meetings shall be held annually.

g. A full report of each meeting must be made to the Headquarters of the Institute on the form supplied by the Institute.

American Engineering Standards Committee

The American Engineering Standards Committee serves as a national clearing house for engineering and industrial standardization and acts as the official channel of co-operation in international standardization. It conducts its work through the activity of Sectional Committees, the responsibility for each of the several hundred standardization projects being in the hands of one or more cooperating agencies known as "sponsors."

The Institute of Radio Engineers and the American Institute of Electrical Engineers are joint sponsors for the Sectional Committee on Radio. The Institute of Radio Engineers is also cooperating in the formulation of standards on five other subjects, its representatives on all of these Sectional Committees being given on page 10.

The Sectional Committee on Radio is composed of representatives from nineteen cooperating organizations. The Executive Committee of the Sectional Committee on Radio consists of the following officers and Chairman of Technical Committees:

J. H. MORECROFT, *Chairman*
C. H. SHARP, *Vice-Chairman*
A. N. GOLDSMITH, *Secretary*

Chairmen of Technical Committees:

Transmitting and Receiving Sets and

Installations A. F. VAN DYCK
Component Parts and Wiring L. G. PACENT
Vacuum Tubes J. H. DELLINGER
Electro-Acoustic Devices LLOYD ESPENSCHIED
Power Supply and Outside Plant L. W. CHUBB

THE INSTITUTE OF RADIO ENGINEERS, INC.

COMPARATIVE BALANCE SHEET - As of December 31, 1926 and 1925

	Dec. 31, 1926		Dec. 31, 1925		Increase Decrease	
	1926	1925	1926	1925	1926	1925
ASSETS						
CASH						
On Deposit — Corn						
Exchange Bank						
On Deposit—National						
State Bank						
On Hand — Petty						
Cash Fund						
TOTAL CASH						
ACCOUNTS RECEIVABLE						
Juniors						
Associates						
Members						
Fellows						
Advertising						
Emblems						
TOT. ACCTS. REC.						
DEPOSIT FOR RENT						
INVENTORIES						
Proceedings on hand						
Paper Stocks on hand						
Investments						
Furniture & Fixtures						
Less — Reserve for						
Depn.						
Accrued Interest re-						
ceivable						
LIABILITIES						
PAID IN ADVANCE						
Juniors						
Associates						
Members						
Fellows						
Subscriptions to Proceedings						
TOTAL LIABILITIES						
MORRIS LIEBMAN MEMORIAL FUND						
Principal						
Unexpended Income						
TOTAL MORRIS LIEB-						
MAN MEM. FUND						
SURPLUS						
Balance, January 1st						
Operating Profit for Year						
SURPLUS DEC. 31st						
Total						

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

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 responsible charge, 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 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 responsible 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 and 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 as 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:

	Per Year
Fellows	\$15.00
Members	10.00
Associates	7.50
Juniors	5.00

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:

	Per Year
Fellows	\$12.00
Members	9.00
Associates	5.00
Juniors	4.00

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

	Per Year
Fellows	\$15.00
Members	10.00
Associates	6.00
Juniors	4.00

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:

Fellow	\$10.00
Member	5.00
Associate	3.00
Junior	1.00

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, addressed to the Board of Direction, 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.

A Method of Measuring Radio Frequency by Means of a Harmonic Generator.—August Hund.

An Electrometer Method for the Measurement of Radio-Frequency Resistance.—P. O. Pedersen.

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.

Power Amplifiers in Transatlantic Radio Telephony.—A. A. Oswald and J. C. Schellent.

Re-Radiation from Tuned Antenna Systems.—Henry C. Forbes.

August

A New Phenomenon in Sunset Radio—Radio Direction Variations.—L. W. Austin.

(Discussion in December PROCEEDINGS.)

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

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. Jouaust 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. Friis.

An Analysis of Regenerative Amplification.—V. D. Landon 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 Espenschied, C. N. Anderson and Austin Bailey.

Some Studies in Radio Broadcast Transmission.—Ralph Bown, De Loss K. Martin and Ralph K. Potter.

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

April

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

Sleet Removal From Antennas.—J. H. Shannon.

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. Tsiklinsky 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. Curtiss.

KDKA.—D. G. Little and R. L. Davis.

"A Radio Field"-Strength Measuring System for Frequency Radio Transmission Phenomena.—H. T. Friis and E. Bruce.

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.

Some Measurements of Short-Wave Transmission.—R. A. Heising, T. C. Schelleng and G. C. Southworth.

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.

On the Origin of the Super-Heterodyne Method.—Walter Schottky.

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.

Simplified S. L. F. and S. L. W. Design.—O. C. Roos.

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

Preferred Numbers.—L. A. Hazeltine.

CATALOGUE *of* MEMBERSHIP

ARRANGED ALPHABETICALLY

and

GEOGRAPHICALLY

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.

CATALOGUE OF MEMBERSHIP

January 1, 1927

LIST OF MEMBERS OF ALL GRADES, EXCEPT JUNIORS Arranged Alphabetically

(See note on page 40)

- ABRAHAMS, SAMUEL L. (A'21), c/o General Electric Company, Lynn, Mass.
- ACHATZ, RAYMOND V. (A'20), c/o The Southern Indiana Tel. Co., Aurora, Ind.
- ACKERMAN, MILTON J. (A'25), General Delivery, Orlando, Fla.
- ACTON, EDWARD H. (A'26), Box 100, Shawingan Falls, Quebec, Canada.
- ADACHI, WILLIAM Y. (A'26), 1569 Ocean Ave., Brooklyn, N. Y. Firm: Brooklyn Edison Co., Brooklyn, N. Y.
- ADAIR, SAMUEL E. (M'26), c/o Elliott Jenkins, 1500 N. Dearborn, Chicago, Ill.
- ADAMS, FRANK S. (A'26), Main Wireless Station, Bagdad, Iraq.
- ADAMS, IRA J. (A'20), Radio Corp'n. of America, 233 Broadway, New York City. Res: Greenwood Lake, N. Y.
- ADAMS, ROBERT M. (A'24), c/o Pennie, Davis, Marvin & Edmonds, 165 Broadway, New York City.
- ADAMS, WILLIAM J., Jr. (A'26), c/o Bell Tel. Labs., 463 West St., New York City. Res: Central Park Ave., Hartsdale, New York.
- ADDEY, FREDERICK (F'20), Wireless Branch, Sec'y. Office, G. P. O. North, London, E. C. 1, England.
- AFTEL, HERMAN A. (A'15), 232 Upper Blvd., Ridgewood, N. Y. Firm: Amer. Tel. & Tel. Co., 15 Dey St., New York City.
- AGUSTY JAAQUIN (A'26), P. O. Box 868, San Juan, Porto Rico. Firm: Radio Corp'n. of Porto Rico, San Juan, P. R.
- AHRENS, JUSTIN H. (A'25), 45 Magnolia St., Hartford, Conn. Firm: Hart & Hegeman Co., Hartford, Conn.
- AIKEN, CHAS. B. P. (A'25), 1821 Monroe St., Madison, Wisc. Firm: Mason, Slichter & Hay, Madison, Wisc.
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WILLIS, FREDERICK C. (A'26), 61 Morton St., New York, N. Y. Firm: Western Elec. Co., 163 West St., New York, N. Y.

WILLIS, FRENCH H. (A'26), Box 316, Houlton, Me. Firm: American Tel. & Tel. Co., New York, N. Y.

WILLOUGHBY, JOHN A. (A'19), 1721-17th St., N. W., Apt. 63, Washington, D. C. Firm: U. S. Naval Research Lab., Anacostia, D. C.

WILLS, DAVID C. (A'22), 111 Woodside Road, Riverside, Ill. Firm: Western Elec. Co., Chicago, Ill.

WILLSON, ABNER R. (A'22), 560-1st Ave., Seattle, Wash. Firm: Fobes Supply Co., Butte, Mont.

WILMERT, R. F. (A'26), 1809 Middleton Place, Los Angeles, Cal. Firm: Gillfillan Bros. Inc., Los Angeles, Cal.

WILSON, ALBERT L. (A'26), 2 Frost Lane, Lawrence, L. I., N. Y. P. O. Box 269. Firm: Barlow's Radio & Elec. Shop Inc., Forest Hills, L. I., N. Y.

WILSON, CLIFFORD A. (A'25), Canadian Marconi Co. Ltd., 11 St. Sacramento St., Montreal, Canada. Res.: 173 Williams St., Montreal, Quebec, Canada.

WILSON, CHARLES M. Jr. (A'26), 2736 Derby St., Berkeley, Cal. Firm: Charles M. Wilson, San Francisco, Cal.

WILSON, DONALD (A'25), General Elec. Co., Radio Dept., Schenectady, N. Y. Res.: 1234 State St., Schenectady, N. Y.

WILSON, DUDLEY V. (A'26), Cedar Hill, Tex. Firm: City of Dallas, Dallas, Tex. Radio WRR.

WILSON, GEORGE F. (A'23), 825 Veneta Ave., Bremerton, Wash. Firm: Navy Yard, Bremerton, Wash.

WILSON, LEON T. (M'22), American Tel. & Tel. Co., 195 Broadway, D. & R. Dept., New York, N. Y. Res.: 119 Broad St., Stroudsburg, Pa.

WILSON, NORMAN J. (A'25), 16 Rock Park, Rock Ferry, Cheshire, England. Firm: The British Broadcasting Co. Ltd., London, England.

WILSON, ROBERT B. (A'23), 1132 Highland Ave., Bremerton, Wash. Firm: Navy Yard, Bremerton, Wash.

WILSON, WILLIAM (M'26), Bell Tel. Labs. Inc., 163 West St., New York, N. Y. Res.: Jefferson Road, Short Hills, N. J.

WILSON, WILLIAM H. (A'26), P. O. Box 353, McMinnville, Tenn. Firm: V. E. Semones Radio Supplies, McMinnville, Tenn.

WIMMER, JOSEPH (A'24), N. 1413 Washington St., Spokane, Wash. Firm: Pacific Tel. & Tel. Co., Spokane, Wash.

WING, WILLIS K. (M'26), Doubleday, Page & Co., Radio Broadcast, Garden City, L. I., N. Y. Res.: Cornell Club, New York, N. Y.

WINNER, LEWIS (A'25), 3235 Pull Ave., New York, N. Y. Firm: Radio World, New York, N. Y.

WINTER, FRANCIS H. (A'26), 1005 S. Adams St., Glendale, Cal. Firm: Brunswick-Balke-Collender Co., Los Angeles, Cal.

WINTERBOTTOM, WILLIAM A. (A'15), R. C. A., 233 Broadway, New York, N. Y.

WINTERMUTE, GERALD H. (A'26), Newton, N. J.

WINTRINGHAM, WILLIAM T. (A'26), American Tel. & Tel. Co., 195 Broadway, New York, N. Y. Res.: 2516 Bedford Ave., Brooklyn, N. Y.

WISE, ROGER M. (A'26), Penn. Terminal Bldg., 370-7th Ave., New York, N. Y. Res.: 27 Borage Place, Forest Hills, N. Y.

WISE, SAMUEL J. (A'19), 10 Place Verte, Antwerp, Belgium. Res.: Ave. Elsdonck 75, Vieuxdieu, Antwerp, Belgium.

WISNER, VICTOR (A'26), 109 Bendermere Ave., Interlaken, Ashbury Park, N. J. Firm: High School, Perth Amboy, N. J.

WITKOWSKI, JOSEPH F. (A'23), School of Tel. & Tel. Eng., International Correspondence Schools, Scranton, Pa. Res.: 1526 Mulberry St., Scranton, Pa.

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WOLFF, LOUIS (A'25), 708 Peck St., Muskegon Heights, Mich. Firm: Brunswick-Balke-Collender Co., Muskegon, Mich.

WOLF, LESTER J. (A'21), 920 So. 28th St., South Bend, Ind. Firm: Westinghouse Elec. & Mfg. Co., Springfield, Mass.

WOLVERTON, BYRON C. (A'16), 207 South State St., Syracuse, N. Y. Firm: Friendship Tel. Co., Syracuse, N. Y.

WOOD, A. A. (A'13), 183 Christiana St., North Tonawanda, N. Y. Firm: The Rudolph Wurlitzer Mfg. Co., North Tonawanda, N. Y.

WOOD, CHARLES E. (A'23), 121 Bourne-mouth Rd., Parkstone, Dorset, England. Firm: Russell, Jones & Wood, London S. W. 1, England.

WOOD, J. MELVIN (A'26), 222 East 8th St., Flint, Mich. Firm: L. M. Hengebaugh & Co., Flint, Mich.

WOOD, MERRILL A. (A'26), 175 Winbourne Rd., Rochester, N. Y. Firm: Wood Radio & Elec. Service, Rochester, N. Y.

WOOD, ROBERT H. (A'24-M'26), The British Broadcasting Co. Ltd., 2 Savoy Hill, London, W. C. 2, England. Res.: 36 Baron's Court Rd., W. Kensington, London W. 14, England.

WOOD, STANFORD J. (A'21), 512 Watson St., Monterey, Cal. Firm: International Radio Corp., Los Angeles, Cal.

WOOD, WILLIAM (A'21), R. M. S. P. "Chignecto", c/o R. M. S. P. Co., Halifax, N. S., Canada. Res.: 94 Knights Hill, W. Norwood, London, S. E. 27, England.

WOODBURY, STEPHEN E. (A'25), 18 James St., Beverly, Mass. Firm: Mason & Hamlin Co., Boston, Mass.

WOODCOCK, NORMAN A. (A'14), 81 Prospect St., Brooklyn, N. Y.

WOODROW, JAMES A. S. (A'26), Woodrow Radio Co., 317 Broadway, Cambridge, Mass. Res.: 166 Prospect St., Cambridge, Mass.

WOODROW, WILLIAM (A'15), 904 Ogden Ave., Highbridge, New York, N. Y. Firm: Vocational School for Boys & Evening Trade School, New York, N. Y.

WOODRUFF, ALBERT E. (A'26), 614 South Cuyler Ave., Oak Park, Ill. Firm: Automatic Elec. Co., Inc., Chicago, Ill.

WOODRUFF, BEN H. (A'26), Hobbs Plumbing & Elec. Co., Box 178, Meridian, Miss. Res.: Conway, Ark.

WOODWARD, BRUCE J. (A'26), Adelia Wayne Co., Adelia, Pa. Firm: R. H. Burcher & Schlessler, Honesdale, Pa.

WOODWARD, CLARENCE H. (A'25), 3611 Greenview Ave., Chicago, Ill. Firm: Lyon & Healy, Chicago, Ill.

WOODWARD, PERCY J. (M'16), Marconi's Wireless Tel. Co., Ltd., Marconi House Strand, London, England. Res.: "Bryn Towel", Waenafawr, near Carnarvon, N. Wales, England.

WOOLLEY, MYLES L. (A'22), 4511 University Way, Seattle, Wash. Firm: Western Electric Co., Seattle, Wash.

WOOLNER, ELMORE G. (A'25), 214 Laurier Ave., Toronto 10, Ont., Canada. Firm: Canadian General Elec. Co., Toronto, Ont., Canada.

WOOLVERTON, ROBERT B. (A'13-M'13-F'15), Fort Sheridan, Ill.

WORDEN, RALPH P. (A'20), 14965 West Adams Ave., Lakewood, O.

WORRALL, ROBERT H. (A'17), 1821 Riggs Place, N. W., Washington, D. C. Firm: U. S. Naval Research Lab., Bellevue, D. C.

WORRELL, HOWARD S. (A'26), 100 E. Montgomery Ave., Ardmore, Pa. Firm: Dictaphone Corp., Bridgeport, Conn.

WRIGHT, CHARLES A. (A'16), National Carbon Co., Research Lab., 1280 W. 735 St., Cleveland, O. Res.: 1237 Hall Ave., Lakewood, O.

WRIGHT, CARLETON F. (A'23), 117 East 50th St., New York, N. Y. Firm: Walter S. Place & Co., Boston, Mass.

WRIGHT, FLEMING G. (A'26-M'26), 2 Mitchell St., Halifax, N. S., Canada. Firm: Wright Radio, Ltd., Halifax, N. S., Canada.

WRIGHT, SYDNEY R. (A'24), 14 Bankfield Drive, Nab Wood, Shipley, Yorkshire, England. Firm: Messrs. C. Pratt & Sons, Ltd., Yorks, England.

WRIGHT, J. WARREN (A'23), Radio Div., Naval Research Lab., Bellevue, Anacostia, D. C.

WRIGHT, MARSHALL C. (A'26), 118 West 74th St., New York, N. Y. Firm: National Broadcasting Co., New York, N. Y.

WRIGHT, OLIVER (A'26), 784 S. El Molino Ave., Pasadena, Cal. Firm: University of Arizona, Tucson, Ariz.

WRIGHT, WILLIAM L. (A'16), 195 Main St., Brockton, Mass.

WROUGHTON, THOMAS H. (A'26), Hawthorne Villa, 62 Kirby Rd., Sutton-in-Ashfield, Notts, England. Firm: Wireless & Electrical Stores, Notts, England.

WRIGHT, WENDELL L. (A'23), 141 Exchange St., Rockland, Mass. Firm: Wright Radio Co., Rockland, Mass.

WUNDERLICH, NORMAN E. (A'23-M'26), 8327 Drexel Ave., Chicago, Ill. Firm: Neutrowound Radio Mfg. Co., Homewood, Ill.

WURN, BERNARD (A'26), 8630-143d St., Jamaica, L. I., N. Y. Firm: R. C. A., New York, N. Y.

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WYNNE, WALTER M. (A'24), U. S. S. McCormick, c/o Postmaster, Seattle, Wash. Res.: 151-68th St., Brooklyn, N. Y.

YAGER, H. BARTON (A'26), 10 Remsen St., Brooklyn, N. Y. Firm: Broadcasting Co. of America, New York, N. Y.

YAGI, HIDEITSUGU (M'16-F'24), College of Engineering, Tohoku Imperial Univ. Sendai, Japan.

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YOSHIRO, KURODA (A'25), 448 Tokumochi, Ikegami-mura, Ebaragun, Tokyo-fu, Japan. Firm: The Training School of Posts & Telegraphs, Tokyo, Japan.

YOST, JOHN C. (A'25), 100 South Side Ave., Freeport, L. I., N. Y. Firm: Radio Corp. of America, Rocky Point, L. I., N. Y.

YOUNG, ALBERT L. (A'15), Bu. of S. E., Rm. 2430, Navy Dept., Washington, D. C. Res.: Manson, Ia.

YOUNG, CHARLES J. (A'23), 1065 Avon Rd., Schenectady, N. Y. Firm: General Electric Co., Schenectady, N. Y.

YOUNG, FRANK A. (A'20), 523 West Main St., Meriden, Conn. Firm: Connecticut Tel. & Elec. Co., Meriden, Conn.

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YOUNG, LIHWEI (A'21), Nanyang University, 526 Ave. Haig, Shanghai, China.

YOUNG, NICHOLAS T. (A'26), 266 Maple Ave., Hartford, Conn. Firm: Hartford Elec. Supply Co., Hartford, Conn.

YOUNG, OWEN D. (M'22), General Elec. Co., 120 Broadway, New York, N. Y. Res.: 530 Park Ave., New York, N. Y.

YOUNG, SUMNER B. (A'19), 37 Grozier Rd., Cambridge, Mass. Firm: Harvard University, Cambridge, Mass.

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YOUNGS, HOWARD E. (A'26), Crosley Radio Corp., 3101 Colerain Ave., Cincinnati, O. Res.: 3315 Graydon Ave., Cincinnati, O.

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YOUNT, L. E. (A'25), 1719 West 41st St., Los Angeles, Cal. Firm: Western Radio Inc., Los Angeles, Cal.

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ZEAMANS, HAROLD R. (A'12), 1831 Broadway, New York, N. Y.

ZENNECK, JONATHAN (M'13-F'11), Technische Hochschule, Munchen, Germany.

ZIEGLER, FREDERICK J. (A'18), The Willows, Woodmere, L. I., N. Y.

ZIMMERMAN, GEORGE E. (A'26), Houston Post-Dispatch, Radio Sta. KPRC, Houston, Tex. Res.: 1915 Walker St., Houston, Tex.

ZINT, KARL E. (A'26), R. D. No. 2, Box 250, San Gabriel, Cal. Firm: Radio Station KFXB, Pine Knot P. O., Big Bear Lake, Cal.

CATALOGUE OF MEMBERSHIP

January 1, 1927

Arranged Geographically

UNITED STATES

ALABAMA

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

ARIZONA

Tucson
Percy, Faye W. (A)
Warner, Earle H. (A)

ARKANSAS

Fayetteville
Mc Kinley, Howard W. (A)
Little Rock
Beem, Raymond M. (A)
Siloam Springs
Chandler, C. G. (A)

CALIFORNIA

Alameda
Joost, Leslie B. (A)
Lubeke, Harry R. (A)
Alhambra
Ashbrook, Roy B. (A)
Pohlman, G. A. (A)
Altadena
Johnson, Paul F. (M)
Anahelm
Pratt, Haraden (M)
Azusa
Holcomb, Clyde A. (A)
Bell
Anderson, Edward R. (A)
Berkeley
Beales, John T. Jr. (A)
Davis, Daryl D. (A)
Eller, W. H. (A)
Greves, George L. (A)
Meissner, Earl R. (A)
Polkinghorn, F. A. (A)
Steffen, C. V. N. (A)
Wilson, Charles M. Jr. (A)
Bishop
Wheeler, Walter R. (A)
Coronado
Peterson, Arthur W. (M)
Emeryville
Kennon, Thomas L. (A)
El Centro
Cook, John W. (A)
Parker, Cecil N. (A)
Fresno
Denny, R. C. (A)
Gearhart, Erle J. (A)
Schlueter, Edward A. (A)

Fullerton

Atherton, M. J. V. (A)
Glerdale
Bowles, Theodore C. (A)
Stratton, R. A. (A)
Winter, Francis H. (A)
Hemet
Coe, Ernest W. (A)
Hollywood
Felch, Harry F. (A)
Fink, Hyman M. (A)
Harrington, F. H. (A)
Hill, Arthur P. (M)
Juneau, C. B. (A)
Main, Alfred J. C. (M)
Sitar, Earl C. (A)
Van Why, Forbes W. (A)
Huntington Park
Kinsall, Lowell S. (A)
Inglewood
Peters, Jay (A)
Lankershim
Cannon, Walter B. (A)
Long Beach
Barton, Sydney (A)
Moore, Raymond C. (A)
Wallace, Donald C. (A)
Los Angeles
Allen, Frederick G. (A)
Alverson, James G. (A)
Blum, Floyd O. (A)
Brown, J. Kenneth (A)
Brown, Nicholas E. (A)
Cheney, John W. (A)
Deming, Wilford Jr. (A)
Dewey, Fred L. (A)
Farnsworth, W. S. (M)
Felstead, Charles F. (A)
Fitz-Simons, R. H. (A)
Ford, W. B. (A)
Gill, William (A)
Glasby, W. K. (M)
Gulford, E. H. (A)
Hagen, B. W. R. (A)
Hauser, Carroll R. (A)
Hendrickson, Clayton (A)
Hill, Earle E. (A)
Hopkins, Stephen (A)
Houtz, George E. (A)
Howes, Edgar T. (A)
Jakosky, John J. (M)
Kent, Oliver C. (A)
Lang, William A. (A)
Langrick, Paul D. (A)
Leighton, H. W. (A)
Levinson, Nathan (M)

UNITED STATES (Continued)

Los Angeles (Continued)

Lindsay, W. W. Jr. (M)
MacMurphy, F. (A)
Madsen, Norman L. (A)
Mason, C. W. (A)
Masters, Frank L. (A)
McCabe, William E. (A)
McCreery, M. E. (A)
McDonough, Thomas F. (A)
McNamee, B. F. (A)
Miller, Charles E. (A)
Moore, Raymond M. (A)
Palethorpe, Harold J. (A)
Pearce, Harry G. (A)
Potter, Paul J. (A)
Pratt, Carroll S. (A)
Ramsay, Alan N. (A)
Rhodes, L. G. E. (A)
Riggs, Clare A. (A)
Sheldon, C. C. (A)
Smith, C. Bernard (A)
Snyder, William R. (A)
Stuedle, Emory C. (A)
Taufenback, Leslie E. (M)
VanLeuven, A. F. Jr. (A)
Wainwright, Stuart F. (A)
Ward, Jack (A)
Whiston, R. W. (A)
Wickersheim, Lyle W. (A)
Wilmert, R. F. (A)
Young, William G. (A)
Yount, L. E. (A)

Mare Island

McDowell, C. S. (M)

Marshall

Reid, Irl H. (A)

Modesto

Clarkson, Charles N. (A)

Monterey

Greene, Harry A. (A)
Wood, Stanford J. (A)

Oakland

Baker, Joseph W. (A)
Brown, Elmer L. (A)
Brown, James F. (A)
Cross, Charles H. (A)
Engholm, Bernard A. (A)
Hart, Arthur H. (A)
Kellogg, Walter D. (A)
Madden, Roy E. (A)
McCarthy, John N. (A)
Paulson, C. I. (A)
Stone, Ellery W. (F)

Orange

Waters, John E. (A)

Pacific Grove

Brokaw, Hal R. (A)

Palo Alto

Beal, R. R. (A)
Case, Nelson P. (A)
Cordes, Henry G. (A)
Elliott, H. F. (M)
Fuller, Leonard F. (F)
Jensen, Sven (A)
Kolster, F. A. (F)
Lewelling, Raymond (A)
Marx, Roland G. (M)
Miller, H. P. Jr. (M)

Overacker, Horace E. (A)
Tinney, Francis B. (A)
Umphreys, John L. (A)
Veltrup-Jensen, J. G. (A)

Pasadena

Brown, Howell C. (A)
Hopper, F. L. (A)
Kiernan, Earl F. (A)
Smith, Robert L. (A)
Wright, Oliver (A)

Pine Knot

Betterley, Jack A. (A)

Pomono

Parker, Evert L. (A)

Redlands

Tatroult, Leon E. (A)

Sacramento

Farmer, Gordon C. (A)
Freiermuth, Vincent J. (A)
Messner, R. L. (A)
O'Brien, John J. Jr. (A)
Staats, Ernest (A)
Weber, Glenn L. (A)

San Bernardino

Ponto, A. E. (A)

San Carlos

Graham, Lloyd E. (A)

San Diego

Cattell, Gilbert W. (A)
Kilpatrick, J. D. (A)
Rogatsky, C. H. (A)
Scott, Carl A. (A)
Smith, Joseph N. (A)
Stone, John Stone (F)

San Francisco

Bear, William P. (A)
Behr, Francis (F)
Bender, Louis B. (M)
Best, Gerald M. (M)
Bradshaw, Lynwood (A)
Brewington, C. W. (A)
Bullard, Admiral W. H. G. (M)
Bumbaugh, Harold L. (A)
Burkett, C. W. (A)
Bush, Capt. George P. (M)
Danielson, Ernest G. (A)
Davey, C. (A)
Day, Lambert E. (A)
Dillon, John F. (F)
Fass, Sydney J. (A)
Fenner, Paul R. (A)
Gary, L. A. (A)
Girsewald, Alexander V. (A)
Halloran, Arthur H. (M)
Hanscom, W. W. (M)
Heintz, Ralph M. (M)
Hoffman, Samuel O. (A)
Huppert, Henry K. (A)
Kendrick, E. J. (A)
Kling, Howard D. (A)
Lane, Daniel H. (A)
Larzelere, W. R. Jr. (A)
Linden, Bernard H. (A)
Loghry, R. (F)
Lovejoy, Edwin W. (M)
Ludes, Edward J. (A)
Malone, A. (A)
Mathes, R. E. (A)
Maynard, Raymond K. Jr. (A)
Melnicoe, Samuel (A)

UNITED STATES (Continued)

San Francisco (Continued)

Moore, Paul (A)
Ogg, Glen R. (A)
Ormiston, Kenneth G. (A)
Peterson, J. R. (A)
Shea, Edward C. (A)
Smith, Charles S. Jr. (A)
Squires, Harold W. (A)
Ternow, Helmut G. (A)
Thiel, Harold A. (A)
Todd, Stedman F. (A)
Tustin, John L. (A)
Wolf, Benjamin (M)
Youngstrom, Nels C. (A)

San Gabriel

Zint, Karl E. (A)

San Jose

Anderson, Adrien L. (A)
Engwicht, Harry (A)
Quement, Frank J. (A)

San Leandro

St. Clair, Alex V. (A)

San Pedro

Heinley, P. P. (A)
Johnson, V. (A)
Skov, Jens Ingvard (A)

San Rafael

Bradley, John T. (A)
Parkin, John Jr. (A)

Santa Maria

Gloga, Peter C. (A)

Santa Monica

Murphy, E. W. (A)

S. Pasadena

Grimes, William F. (A)

Stanford University

Rathbun, Harry J. (A)
Ryan, Harris J. (M)
Terman, Frederick E. (A)

Stockton

Schulz, Paul C. (A)

Vallejo

Brown, Archie S. (A)
Robinson, R. J. (A)

Whittier

Leffingwell, E. D. (A)
Smith, L. E. (A)

COLORADO

Arvada

Kelso, Rupert E. (A)

Colorado Springs

Nassour, William (A)
Pyle, William D. (A)

Delta

Fulghum, Charles K. (A)

Denver

Baldwin, John M. (A)
Bitter, A. R. (A)
Colburn, Herbert C. (A)
De Haven, Thomas V. (A)
Earnhart, Glen W. (A)
Mather, Cuthbert C. (A)
Myers, John F. (A)
Peecher, V. S. (A)
Peterson, Frank M. (A)
Reynolds, W. D. (A)
Segal, Paul M. (A)

Fort Lyon

Osgood, Albert S. (A)

La Junta

Carter, Clarence D. (A)

Pueblo

Nelson, A. L. (A)

CONNECTICUT

Bridgeport

Campbell, Charles H. (A)
Gravlin, Lee F. (A)
Ham, Frank M. (A)
Lyford, Elmore B. (A)
Macintyre, James R. (A)
Nothnagle, George E. (A)
Tomlinson, Harry E. (A)

Glastonbury

Beekley, F. Cheyney (A)

Greenwich

Minton, Ogden (A)

Hartford

Ahrens, J. H. (A)
Alcott, George B. (A)
Barnes, Howard N. (A)
Beckwith-Ewell, S. L. (A)
Beymer, Marshall (A)
Cowles, W. G. (A)
Handy, Francis E. (A)
Hebert, Arthur A. (M)
Kutscher, Louis F. (A)
Maxim, Hiram Percy (A)
Pember, Harold H. (A)
Radom, Robert (A)
Seeli, Russell G. (A)
Westman, Harold P. (A)
Young, N. Y. (A)

Higgenum

Hubbard, Beverly R. (A)

Litchfield

Vanderpool, Floyd L. (A)

Meriden

Donle, Harold P. (A)
Redfield, Kendall A. (A)
Terrell, John A. (A)
Wilcox, Ernest C. (A)
Young, Frank A. (A)

Middletown

Cady, Walter G. (A)
Harrison, Jamison, R. (A)
Van Dyke, K. S. (M)

New Britain

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

New Haven

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

Norwich

Hubbard, James L. (A)

Seymour

Dana, Alan S. (A)

Sound Beach

Yates, Raymond F. (M)

Southington

Lewis, Earl B. (A)

Stamford

Cronkhite, Minton (M)

Storrs

Noble, Daniel E. (A)

Stratford

Godfrey, Charles C. (A)

UNITED STATES (Continued)

Torrington

Alvord, C. G. (A)

Waterbury

Bennett, Morris H. (A)

West Hartford

Kruse, Robert S. (M)

Mueller, Paul M. (A)

Warner, Kenneth B. (M)

Westport

Perry, William A. (A)

DELAWARE

Wilmington

Casey, K. K. V. (A)

Ellis, William G. (M)

Henning, C. I. B. (A)

DISTRICT OF COLUMBIA

Anacostia

Hanson, M. P. (A)

Rietzke, 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 B. (A)

Brooks, Jefferson D. (A)

Burgess, Warren B. (A)

Chubb, William M. (A)

Cohen, Louis (F)

Corbett, W. E. (A)

Corrigan, James T. (A)

Crossley, Alfred (M)

Dagg, T. R. (A)

Dewhurst, Thornton P. (A)

Ellis, George D. (A)

Ferris, Malcolm (A)

Gehhard, Louis A. (A)

Glaser, Stanley (A)

Graf, Alois W. (A)

Guthrie, Frederick P. (A)

Heini, Robert D. (A)

Highleyman, Richard (M)

Hill, Captain Guy (F)

Hinemon, J. H. Jr. (A)

Hogg, William S. Jr. (A)

Horn, Charles A. (A)

Hund, August (M)

Johnson, Albert E. (A)

Johnson, Reverdy (A)

Judson, Elbert B. (A)

Kuhn, George (A)

LeRoy, C. A. (A)

Mauborgne, J. O. (M)

May, Albert (A)

Mickey, LeRoy (A)

Mirick, Carlos B. (A)

Palne, Donald C. (A)

Parkinson, Taintor (A)

Powell, Edwin L. (A)

Quaintance, Leland C. (A)

Rohrich, 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)

Willoughby, John A. (A)

Worrall, Robert H. (A)

Young, Albert L. (A)

Young, Leo C. (A)

FLORIDA

Coral Gables

Entrekin, Carl A. (A)

Gainesville

Loucks, Ivan H. (A)

Jacksonville

Aymar, Edwin (A)

Cooper, John C. Jr. (A)

Key West

Kenny, Matthew (A)

Miami

Hoselton, Frank B. (A)

Peirce, G. H. (A)

Orlando

Ackerman, Milton J. (A)

Kent, Roscoe (A)

Pensacola

Hallam, John T. (A)

Sarasota

Service, Charles A. Jr. (A)

St. Augustine

Gilchrist, W. (A)

Tampa

Weitzel, LeRoy B. (A)

Winter Park

Lee, William J. (M)

GEORGIA

Atlanta

Chapman, Richard C. (A)

Christy, Lyman (A)

Dobbs, Harry F. (A)

Herault, Pierre C. (A)

Moore, George H. (A)

Preece, Richard Jr. (A)

Reid, Henry L. (A)

Van Nostrand, Walter Jr. (M)

Columbus

Stuart, John F. (A)

Fort Benning

Akin, Spencer B. (A)

Mineral Bluff

Clement, J. M. (A)

Savannah

Rollinson, John W. (A)

Statesboro

Blitch, James D. (A)

IDAHO

Lewiston

Keyes, Edwin F. (A)

Pocatello

Davis, Glenwood (A)

Walters, Ralph H. (A)

ILLINOIS

Aurora

Bliss, Floyd D. (A)

Morrissey, Edward J. (A)

Barrington

Pippenger, H. F. (A)

Belleville

Hahn, Richard W. (A)

Berwyn

Komm, Paul M. (A)

Bloomington

Stillhamer, Arthur G. (A)

Blue Island

Damm, George J. Jr. (A)

UNITED STATES (Continued)

Calumet City

Friend, Halton H. (A)

Canton

Ingersoll, William P. (A)

Caseyville

Kidd, Jerome F. (A)

Chicago

Adair, Samuel E. (M)

Andrews, Edward F. (A)

Armstrong, H. M. (A)

Anneman, Major George B. (A)

Barnett, Forrest E. (A)

Benjamin, A. S. (A)

Bergman, G. Wiley (A)

Bidwell, Dana (A)

Boyd, Arthur F. (A)

Braun, W. C. (A)

Brenner, Joseph (A)

Bridgman, Francis K. (A)

Browne, L. N. (A)

Buckwalter, C. J. (A)

Burdett, Sam (A)

Butler, R. H. (A)

Butterfield, C. E. (A)

Butterfield, Roy O. Jr. (A)

Callahan, James J. (A)

Campbell, Howard E. (M)

Campbell, Robert H. (A)

Carter, A. J. (M)

Chun, Herbert H. (A)

Clark, B. H. (A)

Clausing, L. M. (A)

Colwell, Frederick E. (A)

Connor, George C. (A)

Creceilus, Frank A. (A)

Davis, J. A. (A)

Deeley, P. Mck. (A)

De Forest, M. J. (A)

Dokas, Konstantinos B. (A)

Dolesh, Frank J. (A)

Dooley, Roscoe E. (A)

Duskis, E. (A)

Dressel, Henry (A)

Dudley, Beverly (A)

Ebert, Burton E. (A)

Edelman, Philip E. (A)

Eells, M. Merwin (A)

Elam, David L. (A)

Engler, Robert J. (A)

Epstein, Hirsch (A)

Farley, G. E. (A)

Fernandez, Dan T. (A)

Ferria, Frank (A)

Fischer, Andrew Jr. (A)

Forbes, Allan C. (M)

Forsberg, O. J. (A)

Fortington, W. H. (A)

Freimann, Frank (A)

Friday, Wilbur L. (A)

Fritchle, Oliver P. (A)

Frost, Herbert H. (A)

Gaines, Benjamin R. (A)

Gardner, Francis S. (A)

Garner, F. E. (A)

Gerst, P. E. (A)

Gregory, Miss C. C. (A)

Hall, Edward G. (A)

Hall, Harland R. (A)

Hansen, Clarence A. (A)

Hansen, Leland S. (A)

Hanson, Earl C. (A)

Harper, W. W. (M)

Harris, S. S. (M)

Hassel, Karl E. (M)

Hecht, Royal H. (A)

Henninger, Andrew F. Jr. (A)

Holroyd, Richard J. (A)

Holst, Wendell L. (M)

Hoppock, Allen H. (A)

Howard, Austin A. (A)

Ingalls, Alexander W. (A)

Izenstark, Maurice J. (A)

Jacobsen, Theodore H. (A)

Jelen, Matt J. (A)

Josephson, A. (A)

Karcher, Edmund M. (A)

Kardas, Christ (A)

Kelley, Harvey T. (A)

Kimball, George K. (A)

King, Howard S. (A)

Kjellstrand, Walter (A)

Kleist, Alfred H. (A)

Koch, E. L. (A)

Kopprasch, Alexander H. (A)

Kulas, Frank A. (A)

Leffler, Ralph H. (A)

Ledy, Wilmer J. (A)

Lill, Daniel F. (A)

Lipsey, David H. (A)

Magos, John P. (A)

Marco, Frederick J. (A)

Marquis, Harold M. (A)

Marzusch, Walter F. (A)

Mathews, Ralph H. G. (M)

McDermott, Thomas A. (A)

McJilton, DeWitt (A)

Meinhard, Herman (A)

Mercer, John E. (A)

Miller, John H. (M)

Mills, Elmer E. (A)

Minnium, Byron B. (A)

Morrison, H. R. (A)

Morrison, I. E. (A)

Morrison, Montford (M)

Nichols, Orlando (A)

Nordhaus, Charles H. (A)

Novak, Joe J. (A)

Ostlund, Evert M. (A)

Oxner, Edwin K. (A)

Palmer, Lester C. (A)

Parker, Leonard E. (A)

Parkhurst, A. P. (A)

Peel, Edward R. (A)

Perkins, Lucius J. (A)

Petersen, Howard E. (A)

Pestlin, LeRoy J. (A)

Petzina, Erwin W. (A)

Pew, Richard K. (A)

Pfaff, Ernest R. (A)

Pierl, Donald (A)

Pohlman, John V. (A)

Polydoroff, W. J. (M)

Pomy, Herman J. (A)

Preston, Cecil W. (A)

Randall, Harry K. (A)

Reckard, L. T. (A)

Reichmann, Frank (M)

Rice, Ray (A)

UNITED STATES (Continued)

Chicago (Continued)

Richardson, A. G. (A)
 Rodriguez, A. E. (A)
 Rowe, Thomas L. (A)
 Ryder, Frank A. (A)
 Schafer, Kenneth M. (A)
 Schnell, William J. (A)
 Schoenwolf, Fred L. (A)
 Schulz, Emil H. (A)
 Scott, Kenneth L. (A)
 Shotwell, Harold H. (A)
 Shultise, Q. M. (A)
 Sloan, F. V. (A)
 Smith, Ernest F. (M)
 Smith, Harold I. (A)
 Smythe, Edwin H. (M)
 Spaeth, Dr. Charles (A)
 St. James, Robert T. (M)
 Stone, Carrington H. (M)
 Stulve, Derk (A)
 Susnich, Eugene W. (A)
 Swanson, M. W. (A)
 Sykes, F. W. (A)
 Tamburino, A. C. (A)
 Tathwell, Archie E. (A)
 Temple, John M. (A)
 Ten Cate, Arthur C. (A)
 Tesch, W. L. (M)
 Thompson, Isaac Jr. (A)
 Turner, G. S. (A)
 Turner, Harry E. (A)
 Voorhaar, Frederick R. (A)
 Wagner, Edward R. (A)
 Wagner, Elmer H. (A)
 Wang, Theodore J. (A)
 Welches, J. Harold (A)
 Wilcox, G. M. (M)
 Woodward, Clarence H. (A)
 Wunderlich, N. E. (M)
 Yoder, Raymond S. (A)
 Zaruba, Charles (A)
 Zatorsky, E. F. (A)

Chicago Heights

Chambers, Frank E. (A)

Deerfield

Strock, Reeve O. (A)

Evanston

Burt, Andrew G. (A)
 Hughes, R. E. (A)
 Pennington, Paul (A)
 Silver, McMurdo (A)

Forest Park

Hollenbeck, A. T. (A)
 Mumm, Frederick (A)
 Shaffer, Paul E. (A)

Fort Sheridan

Woolverton, R. B. (F)

Freeport

Nestlerode, Boyd W. (A)

Geneva

Kranz, Frederick W. (A)

Glencoe

Korsgren, David C. (A)

Glen View

Starkev, Healdon R. (A)

Highland Park

Daniels, A. J. (A)
 Olesen, Harold L. (M)

Hinsdale

Hill, Frederick A. (A)

Homewood

Pappin, Richard B. (A)

Kankakee

Potter, M. L. Jr. (A)
 Wilhelm, Julian A. (A)

Kewanee

Carlson, Leonard T. (A)

La Grange

Hofert, Fred A. (A)

Maywood

Breitenbach, D. S. (A)
 Burdick, Allen H. (A)
 Greaves, Walter M. (A)
 Kranz, Herman E. (M)

Mooseheart

Shugart, Ralph A. (A)

Mt. Prospect

Gray, Harold E. (A)

Oak Park

Augustine, R. W. (M)
 Doyle, Horace F. (A)
 Drummond, Ralph S. (A)
 Manke, Arthur G. (A)
 Marshall, Edwin K. (A)
 Nangle, W. O. (A)
 Pye, Harold C. (A)
 Westcott, Philip S. (A)
 Wilder, D. R. (A)
 Woodruff, A. E. (A)

Park Ridge

Carr, J. O. (A)

Pecatonica

Van Antwerp, M. C. (A)

Peoria

Mackley, Harry A. (A)
 Shalkhauser, E. G. (A)

Quincy

Itner, Fred W. (A)

Rantoul

Richard, Charles W. (M)

Ravinia

Cole, Jirah D. Jr. (M)

Riverside

Wills, David Charles (A)

Rockford

Ferdinand, Harry P. (A)
 Hand, Carl A. (A)
 Ward, Lloyd S. (A)

Roscoe

Johnson, Stanley O. (A)

Springfield

Holtz, Frederick C. (A)

Streator

Licht, Henry M. (A)

Urbana

Brown, H. A. (A)
 Garner, L. P. (A)
 Knipp, Charles T. (M)
 Ross, Ira G. (A)
 Tykociner, J. T. (M)

Waukegan

Knaack, Frank E. (A)
 Weeks, R. H. (A)

West Liberty

Waddell, G. G. (A)

Wheaton

Taylor, Hawley O. (M)

UNITED STATES (Continued)

Wilmette

Beyrer, Lowell R. (A)
 Martin, Neill H. (A)

Winnetka

Johnstone, George A. (A)

INDIANA

Angola

Coumbe, J. B. H. (A)

Aurora

Achatz, Raymond V. (A)

Bloomington

Ramsey, R. R. (M)

Converse

Macy, M. W. (A)

Decatur

Brown, James W. (A)

Fort Wayne

Bohling, C. F. (A)

Fulton

Gray, Floyd E. (A)

Gary

Molony, John D. (A)

Hammond

Sherman, Russell H. (A)

Kokomo

Lanternman, Walter F. (A)
 White, C. L. (A)

South Bend

Portman, C. (A)
 Wolf, Lester J. (A)

Union City

Romeiser, Ernest G. (A)

Valparaiso

Clemons, Dale R. (M)
 Leigh, Charles W. (A)
 Packman, M. E. (A)

West Lafayette

Thatcher, Everett W. (A)

Winamac

McKinley, L. O. (A)

IOWA

Ames

Knouf, Ralph J. (A)

Cedar Rapids

Paar, H. F. (A)

Clinton

Lahatt, M. D. (A)

Council Bluffs

Anderson, Gordon A. (A)

Davenport

Andrews, Lawrence W. (A)
 Ehlers, Paul (A)
 Schrieker, John R. (A)
 Speers, John C. (A)

Des Moines

Arthurs, L. J. (A)

Dubuque

Van Dusen, Paul P. (A)

Fort Dodge

Tunwall, Carl S. (A)

Lamoni

Roth, Jesse E. (A)

Marshalltown

Center, Edgar R. (A)

Muscatine

Baker, Norman G. (A)

Pomeroy

Peterson, J. A. (A)

Shenandoah

Yarger, Cecil R. (A)

Sioux City

Price, Carl R. (A)

Waterloo

Hanson, John (A)

KANSAS

Atchinson

Robb, Joseph S. (A)
 Stein, Frederick W. (A)

Atwood

Ebeling, Edwin N. (A)

Emporia

Miller, R. F. (A)

Fort Leavenworth

Burkhead, Calvin H. (M)

Lawrence

Anderson, H. W. (A)

Manhattan

Bueche, Harry S. (A)

Topeka

Cook, John W. (A)

Wichita

Byers, H. O. (A)
 Marshall, George E. (A)
 Walterr, L. E. (A)

Winfield

McClelland, H. W. (A)

KENTUCKY

Louisville

Graft, J. Emmett (A)
 Harlow, Fred G. (A)
 Magner, Sylvester L. (A)
 Sunderhauf, Fred A. (A)

Owensboro

Lewis, George H. (M)

Richmond

Todd, E. S. (A)

LOUISIANA

New Orleans

Alcus, Isaac (A)
 Ammen, Charles E. (A)
 Du Treil, L. J. N. (M)
 Ellingson, H. J. (A)
 Gardberg, Joseph (A)
 Hart, M. E. (A)
 Jones, Edward T. (M)
 Lehde, Pendleton E. (A)
 McCabe, Louis L. (A)
 Schiele, Anton A. (A)

Shreveport

Claycomb, Hugh (A)
 Lock, Milton K.

MAINE

Belfast

Ashmore, J. W. (A)
 Castor, A. H. (A)
 Moore, John B. (A)

Brunswick

Little, Noel C. (A)

Houlton

Bonnell, Ralph K. (A)
 Bruno, Theodore P. (A)
 Dombek, John P. (A)
 Harper, A. E. (M)
 Willis, F. H. (A)

Orono

Cloke, Paul (A)

South Portland

Upton, Harry E. (A)

UNITED STATES (Continued)

MARYLAND

Annapolis

De Baun, George H. (A)
Giet, G. Robert (A)
Robinson, Gordon D. (A)

Baltimore

Allen, J. E. (A)
Allner, F. A. (A)
Cooke, Gerald W. (A)
Cope, O. Grant Jr. (A)
Cunningham, K. S. (A)
Egner, Milton D. M. (A)
Emmerich, H. J. S. (A)
Fallon, G. P. (A)
Fetsch, Jos. T. Jr. (A)
Graf, Herman Jr. (A)
Hannah, George M. (A)
Keefer, C. Warfield (A)
Lange, Edward H. (A)
Marshall, Albert E. (A)
McCoy, George G. (A)
Miller, J. Purnell (A)
Mullen, Joseph G. (A)
Seyler, H. F. L. J. (A)

Chevy Chase

Dellinger, J. H. (F)

Hyattsville

Lyon, Harry H. (A)
Rogers, J. Harris (M)

MASSACHUSETTS

Amesbury

Husted, Donald R. (A)

Arlington Heights

Dumble, C. R. (A)
Lamson, Horatio W. (M)
Miller, Harold R. (A)
Rados, C. William (A)

Ashmont

Mullen, Joseph A. (A)

Auburndale

Clapp, James K. (A)

Belmont

Dolhear, Benj. L. (M)
Hughes, A. Morris (A)

Beverly

Appleton, Samuel (A)
Porter, R. G. (A)
Woodbury, Stephen E. (A)

Boston

Beakes, William E. (M)
Bigelow, Charles R. (A)
Blanchard, Dwight E. (A)
Cabot, George E. (A)
Campbell, Harold G. (A)
Chamberlin, Robert R. (A)
Crabtree, James S. (A)
Du Quesne, Henri (A)
Egan, Richard E. (A)
Emery, R. C. (A)
Evans, James C. (A)
Fowler, Ellisha (A)
Gerber, Nathan (A)
Gleason, Harold H. (A)
Greene, L. C. (A)
Haller, Charles J. (A)
Hayes, Hammond V. (A)
Hurd, Volney D. (A)
Imlach, George (A)

Jappe, Hoiger (M)
Kelm, J. D. (A)
Kimball, Carleton B. (A)
Mayer, Arthur W. (A)
McDonough, Lawrence E. (A)
Murray, Albert F. (A)
Pitts, Francis D. (A)
Rines, David (A)
Tanck, Henry (A)
Whittier, E. W. (A)
Wigglesworth, Frank (A)

Brockton

Wright, William L. (A)

Brookline

Bowker, Winthrop H. (A)
Cabot, Sewell (M)
Freeman, Stephen Jr. (A)
Nash, Russell K. (A)
Peckham, J. H. (A)
Ready, William A. (A)
Taylor, Theodore (A)
Weeks, Miles W. (A)

Cambridge

Arps, M. W. (M)
Bauer, P. S. (A)
Bourland, Langford T. (A)
Bowles, Edward L. (A)
Browning, G. H. (A)
Burke, Charles T. (A)
Chaffee, E. Leon (F)
Eastham, Melville (F)
Gordon, Everett P. (A)
Grabau, Martin (A)
Himoe, C. E. (A)
Hovgaard, Ole M. (M)
Kennelly, A. E. (M)
Kitchin, Howard W. (M)
Lane, Henry M. (A)
Levan, James D. (A)
McElroy, P. K. (M)
Phillips, H. B. (M)
Pierce, George W. (F)
Pilkington, E. J. (A)
Pratt, P. W. (A)
Richmond, H. B. (M)
Samuel, Arthur L. (A)
Shaw, Henry S. (M)
Uchida, Satoshi (A)
Wildes, Karl L. (A)
Woodrow, J. A. S. (A)
Young, Sumner B. (A)

Charlestown

Delworth, Lee J. (A)

Chatham

Erickson, Carl E. (A)

Chelsea

Goodwin, George R. (A)
Murdock, D. R. W. (A)

Chestnut Hill

Aspinwall, G. L. (A)
Dellenbaugh, F. S. Jr. (M)

Danvers

Turenne, W. J. (A)

Dorchester

Anderson, Albert E. (A)
Clarke, Ralph S. (A)
Purssell, Clarence V. (A)

East Boston

Llmone, Joseph (A)

UNITED STATES (Continued)

Fall River

Bowen, Harold C. (A)

Gloucester

Hammond, John Hays Jr. (M)
Hart, Robert W. (A)
Smith, Malcolm H. (A)
Trenor, Albert D. (A)

Great Barrington

Barkley, Howard F. (A)

Greenfield

Bennett, R. B. (A)

Hamilton

Dane, Francis W. (M)

Hingham

Pratt, Fearing (A)

Hudson

Kaulback, Harold D. (A)

Longmeadow

Brackett, Quincey A. (M)

Lynn

Abrahams, Samuel L. (A)
Bailey, William M. (M)

Marion

Clifton, B. Stanley Yates (M)

Medford Hillside

Powers, Harold J. (M)

Melrose

Goodwin, A. R. (A)
Jepson, Warren F. (A)
Slayton, Ralph F. (A)

Melrose Highlands

Clement, Ivan C. (A)

New Bedford

Lemieux, Eugene O. (A)
Moriarty, John L. (A)
Vermilya, Irving (M)

Newton

Fairfax, Lynn H. (A)

Newton Center

Pickard, Greenleaf W. (F)

Oak Bluff

Horne, William P. (A)

Orleans

Snow, Albert E. (A)

Plymouth

McCarty, Laurence (A)

Quincy

Nolan, James J. (M)

Rockland

Wright, Wendell I. (A)

Roslindale

Lynch, William (A)
Maginot, E. J. (A)
Van Brocklin, William S. (A)

Roxbury

Paley, Alber A. (A)

Salem

Hersey, Ralph H. (A)
Porter, Ralph H. (A)
Stacey, F. A. (A)

Somerville

Davis, Ranson K. (A)
Halligan, William J. (A)
Hanson, Kermit F. (A)
McLoughlin, W. P. (A)
Mullan, John F. (A)
Tyzzar, Howard J. (A)

Southbridge

Wells, John M. (A)

South Weymouth

Fearing, Justin L. (A)

Springfield

Apker, Charles L. (A)
Batchelder, S. P. (A)
Cotter, William F. (M)
Creaser, Isalah (A)
Curtis, Leslie F. (A)
Dyson, H. R. (A)
Gillatt, Leland W. (A)
Holt, H. W. (A)
Laport, Edmund A. (A)
Neal, Chester T. (A)
Pettengill, G. W. Jr. (A)
Phillips, Lloyd B. (A)
Small, W. H. H. (A)
Sweeney, D. J. (A)

Upham's Corner

Wallace, Gordon S. (A)

Watertown

Dow, M. T. (A)
Drake, Frederick H. (A)
Field, Robert F. (A)
Spaulding, R. H. (A)

Wellesley

Hills, Charles E. Jr. (A)
McDowell, L. S. (M)
Palmer, Harry W. (A)

Williamsott

Hill, George H. (A)

Winchester

Page, Newell C. (A)

Wollaston

Dresser, Willis R. (A)
MacAdam, Mark L. (A)
MacNaughton, A. K. (A)
Worcester
Butler, Charles M. (A)
Gould, William B. 3rd. (A)
Newell, Hobart H. (A)
Van Wert, Clayton S. (A)
Waite, Samuel A. (A)

MICHIGAN

Ann Arbor

Eller, W. H. (M)
Underwood, O. D. (A)

Battle Creek

Roof, Raymond B. (A)

Bay City

Fischler, Paul E. (A)

Benton Harbor

Miles, K. Walker (A)

Berrien Springs

Fetzer, John E. (A)

Dearborn

Black, Fred L. (A)

Detroit

Allen, Albert (A)
Annett, Earl (A)
Berry, E. M. (A)
Boerner, Thomas J. (A)
Briggs, M. B. (A)
Buchanan, A. B. (A)
Clark, J. E. (A)
Clark, Thomas E. (M)
Clarke, George R. (A)
Collins, F. V. (A)
Cornwall, James E. (A)

UNITED STATES (Continued)

Detroit (Continued)

Courtis, Reginald Petre (A)
 Cox, Charles H. (A)
 Davis, C. R. (A)
 Davis, I. C. (A)
 Duston, M. (A)
 Eichberg, Robert (A)
 Evison, Samuel J. (A)
 Fisher, J. C. (A)
 Gasparovitch, Stephen (A)
 Germain, A. L. (A)
 Grunow, Oscar H. (A)
 Hay, William J. (A)
 Hodder Herbert F. (A)
 Hoffman, Walter R. (A)
 Hultberg, Carl A. (A)
 Joy, Henry B. (A)
 Joyce, Herbert A. (A)
 Kearney, F. Kelwin (A)
 Kinley, Clifford B. (A)
 Kirby, Corley W. (A)
 Lebow, Maurice H. (A)
 Mahl, Albert W. (A)
 McCaffry, James A. (A)
 Moss, William (A)
 Nash, Frank S. (A)
 Outzen, Andrew N. (A)
 Peterson, W. A. (M)
 Putnam, Erle T. (A)
 Reed, Stanley C. (A)
 Rouston, Gerald S. (A)
 Schmalzriedt, T. (A)
 Simons, O. B. (A)
 Skapick, Stephen J. (A)
 Smith, Walter C. (A)
 Taylor, Harold E. (A)
 Trittenbach, J. M. P. (A)
 Waynick, Arthur F. (A)
 Wilber, Delbert J. (A)

East Lansing

Ball, I. Dale (A)
 Osborn, Burr K. (A)
 Rollins, George K. (A)

Fenton

Dobbs, F. W. (A)

Ferndale

Thomas, Walter J. (A)

Flint

Fallain, Frank D. (A)
 Stalker, T. L. (A)
 Wood, J. Melvin (A)

Flushing

Way, Lloyd Nelson (A)

Grand Rapids

Ringold, H. Russell (A)

Grosse Point Park

Scanlan, Richard J. (A)

Highland Park

Glatzel, Earle D. (A)
 Gould, Howard S. (A)

Howell

Purdy, Maurice D. (A)

Jackson

Douglas, Earl C. (A)
 Scofield, Theodore J. (A)
 Ward, Donald H. (A)

Kalamazoo

Thorsen, Wilbur R. (A)

Lansing

Willis, E. D. (A)

Menominee

Westervelt, H. P. (A)

Mt. Clements

Moore, James B. (A)

Muskegon Heights

Wolf, Louis (A)

Port Huron

Brown, Kenneth L. (A)

Royal Oak

Miller, Robert L. (A)

Saginaw

Morse, Louis R. (A)

Trenton

Williamson, C. G. (A)

Wyandotte

Morris, Carleton D. (A)

MINNESOTA

Baudette

Gjelhaug, J. A. (A)

Carver

Olson, Marvin S. (A)

Claremont

Springsted, Charles F. (A)

Duluth

Ross, R. H. (A)

Hopkins

Chromy, B. J. (A)

Fuxa, A. E. (A)

Mankato

Gordon, E. B. (A)

Minneapolis

Anderson, Chester H. (A)

Comb, David M. (A)

Cottam, Dean F. (A)

Edwards, Henry W. (A)

Feldman, Carl B. (A)

Hawley, Douglass (A)

Hawn, Robert C. (A)

Hilliard, John K. (A)

Hume, A. A. (A)

Jansky, Cyril M. (M)

Schnell, Louis J. (A)

Sweeney, Claude D. (A)

Northfield

Culver, Charles A. (M)

Tholstrup, H. (A)

St. Paul

Harstad, Harold A. (A)

Young, Frank E. (A)

Sleepy Eye

Berkner, L. V. (A)

MISSISSIPPI

Greenville

Scully, J. Pat (A)

Meridian

Woodruff, B. H. (A)

MISSOURI

Cape Girardeau

Hirsch, Oscar C. (A)

Columbia

McDaniel, Otto S. (A)

Independence

Barron, R. C. (A)

Church, Arthur B. (A)

Krahl, A. K. (A)

Jefferson City

Moler, A. R. (A)

Rawson, Harold R. (A)

UNITED STATES (Continued)

Kansas City

Bradbury, G. V. (A)
 Devine, William F. (A)
 Goldenberg, H. E. (A)
 Groendycke, Richard W. (A)
 Kelly, Millard E. (A)
 MacDowell, E. B. (A)
 McNeil, Benj. F. (A)
 Phelps, Don J. (A)
 Schilling, John T. (A)
 Shotton, Douglas G. (A)
 Sigler, Ode (A)
 Towner, Orrin W. (A)
 Wheat, William G. (A)

Kirksville

Henry, Franklin M. (A)

Kirkwood

Lebanon

Moulder, George C. (A)

Rolla

Frame, F. H. (A)

St. Louis

Browning, Roy H. (A)
 Fay, Clifford E. (A)
 Glasgow, Roy S. (M)
 Jenkins, Franklin W. (A)
 MacDonald, R. W. (A)
 MacDowell, T. W. (A)
 Pingree, S. J. (A)
 Reid, Robert L. (A)
 Siebothorn, L. W. (A)
 West, William H. (A)

Springfield

Nelson, Axel (A)

MONTANA

Bozeman

Murray, William A. (A)

Hardin

Warren, Richard E. (A)

Troy

Prince, Frank W. (A)

NEBRASKA

Aurora

Spencer, Albert H. (A)

Bethany

Weldon, J. O. (A)

Hastings

Roess, Harold (M)

Omaha

Chansky, L. W. (A)
 Doty, W. E. (A)
 Franke, Charles A. (A)
 Hosford, Harold B. (A)
 Hughes, S. B. (A)
 Phillips, Elmo W. (A)
 Quinby, P. H. (A)
 Rockwell, Ronald J. (A)
 Thompson, C. H. (M)

University Place

Jensen, John C. (M)

NEW HAMPSHIRE

Gorham

Dodge, J. B. (A)

Hanover

White, Elliott A. (A)

Portsmouth

Frisbee, Joseph E. (A)
 Martin, Julius (M)

Sunapee

Graves, W. S. (A)

NEW JERSEY

Allendale

Felix, Edgar H. (M)

Ampere

Powers, W. P. (M)

Asbury Park

Blatterman, Albert S. (M)

Lewis, Harold M. (M)

Schlaack, Norman F. (A)

Wisner, Victor (A)

Athenia

Phelps, Walter A. (A)

Atlantic City

Riser, Morris (A)

Audubon

Fisher, Norman (A)

Bayonne

Rogers, George W. (A)

Belleville

Clegg, Edward B. (A)

Cummings, Royal (A)

Osgood, Victor L. (A)

Bloomfield

Bernhard, Frederick S. (A)

Donovan, Daniel R. (A)

Freeman, H. M. (A)

Holborn, Frederick (M)

Kannenstine, F. M. (A)

Koechel, W. P. (A)

McClary, J. P. (A)

McDermott, Eugene (A)

Mitchell, Clair D. (M)

Schoene, Russell L. (A)

Taber, William T. (A)

Uzmann, George J. (M)

Weeks, Paul I. (A)

Widell, E. Gideon (M)

Boonton

Albert, William H. (A)

Hull, L. M. (A)

Seabury, R. W. (M)

Snow, H. A. (A)

Wilby, Howard M. (M)

Bound Brook

Brown, W. A. R. (A)

Long, John J. Jr. (A)

Stair, Daniel N. (A)

Caldwell

Cole, Arthur B. (M)

Eberhard, Lawrence E. (A)

Stanley, Howard L. (A)

Camden

Darlington, Edgar T. (A)

Chatham

De Coutouly, G. C. (A)

Cliffwood

Fris, H. T. (M)

Jensen, A. G. (M)

Collingswood

Fenton, A. N. (A)

Cranford

Polldura, Alphonse L. (A)

Deal

Eberhardt, George M. (A)

Ferrell, E. B. (A)

Litton, Charles V. (A)

Rose, Charles F. P. (A)

UNITED STATES (Continued)

Denville

Harlan, Edwin W. (A)

East Orange

Akers, D. C. (A)
 Brigham, Cyril A. (A)
 Corwin, Alfred H. (A)
 Crom, George C. Jr. (M)
 Curtia, Austen M. (M)
 Derrick, William M. (A)
 Duncan, R. D. Jr. (M)
 Field, W. Thayer (A)
 Gawler, Henry C. (M)
 Kober, Paul A. (A)
 MacLean, N. M. (A)
 MacNabb, Vernon C. (A)
 Manning, Charles T. (A)
 Perry, Irving D. (A)
 Poole, Robert J. (A)
 Roesch, Robert E. (A)
 Ross, Ernest (A)
 Rubin, H. E. (A)
 Shackelford, Benjamin E. (M)
 Spencer, Millard C. (A)
 Stanwick, Charles A. (A)

Edgewater Park

Allen, George P. (A)

Elizabeth

Brick, Frank R. Jr. (M)
 Gundrum, Edward (A)
 Horning, Louis P. Jr. (A)
 Jatlow, J. L. (A)
 Kellam, C. J. (A)
 Morris, Robert M. (A)
 Sanders, Leslie (A)
 Schiff, Frank (A)
 Sery, Lester (A)
 Tucker, John Jr. (A)
 White, Charles P. (A)

Englewood

Emanuel, J. H. (A)
 Gillett, Glenn D. (M)
 Prosser, Roger D. (A)

Franklin

Tillson, Benjamin F. (M)

Freehold

Englund, Carl R. (A)

Glen Ridge

Dart, Harry F. (M)

Hasbrouck Heights

Bench, Chester L. (A)

Scarr, Henry F. (A)

Hillside

Atkins, Joseph H. (A)

Hoboken

Cuntz, John H. (M)
 Dreyer, John F. (A)
 Gorton, R. E. (A)
 Grafe, H. R. (A)
 Hazeltine, Louis A. (F)
 Lillenthal, Frederick C. (A)
 Stempel, Waldemar M. (A)

Irvington

Freud, Harold (A)
 Metzger, Henry G. (A)
 Mommo, Ernest J. (A)
 Mortimer, Harry H. (A)
 Rowe, Charles R. (M)
 Wien, Hans A. (A)

Jersey City

Beller, Edward F. (A)
 Bremer, Harry A. (A)
 Cassidy, William F. Jr. (A)
 Edelbach, Ralph L. (A)
 Gruenberg, Edwin L. (A)
 Hanks, Alfred J. (A)
 Johnson, Kenneth S. (M)
 Odenbach, Joseph F. (A)
 Oliver, George E. (M)
 Schoenfeld, Kurt (A)
 Silbersdorff, H. G. (A)
 Thompson, R. E. (M)
 Walker, C. Robert (A)

Leonia

Erickson, Herman E. (A)

Long Branch

Burrows, Charles R. (A)
 Reinhart, S. M. (A)

Lyndhurst

Cousins, V. M. (A)
 Kannenberg, Walter F. (A)

Maplewood

Bohn, William C. (A)
 Cunningham, F. W. (A)
 Osmun, John H. (A)
 Pellissier, Marcel R. (A)
 Strassner, Frank J. (A)
 Trube, C. E. (A)

Maywood

Stantley, J. J. (A)

McKee City

Read, George T. (A)

Merchantville

Patterson, Edward B. (A)

Metuchen

Graham, G. W. (A)

Midland Park

Hogencamp, Harold C. (A)

Montclair

Bogardus, Henry L. (M)
 De Long, O. A. Jr. (A)
 Frasse, William H. (M)
 Llewellyn, Frederick B. (A)
 MacIntyre, Mackenzie (A)
 Rettenmeyer, Francis X. (A)
 Underhill, Chester R. (A)

Morristown

Foster, Dudley E. (A)

Mount Holly

Coles, C. B. Jr. (A)

Mountain Lakes

Flannagan, Coke (M)

Mountain View

Fenton, W. C. (A)

Newark

Brach, Leon S. (A)
 Carle, N. A. (A)
 Decker, William W. (A)
 Dietrich, Frederick (A)
 Engst, Norbert K. (A)
 Goodwin, W. Nelson Jr. (A)
 Hall, Norman C. (A)
 Hoot, Harold T. (A)
 Hooven, M. D. (A)
 Hubley, Warren F. (M)
 Hughes, Everett J. (A)
 Kahn, Frederick J. (M)
 Leoser, T. S. (A)
 Lubinsky, Herman (A)

UNITED STATES (Continued)

Newark (Continued)

McGall, James G. Jr. (A)
 Murdock, Kenneth B. (A)
 Royden, George T. (A)
 Ryan, Edward W. (A)
 Schermerhorn, J. L. (A)
 Scholz, Carl E. (M)
 Scott, Walter F. (A)
 Sels, Hollis K. (A)
 Summerfield, Sidney C. (A)
 Whitby, H. W. (A)

New Brunswick

Cumming, Kenneth N. (A)

Newton

Wintermute, Gerald H. (A)

Nutley

Broch, Edwin W. (A)

Oceanport

Andrew, Victor J. (A)
 Murphy, William H. (M)
 Pressley, J. H. (A)
 Teague, T. T. (M)

Oradell

Brackett, H. H. (A)

Orange

Hardwick, Ambrose H. (A)
 Schauler, Vincent A. (A)

Passaic

Berger, Henry C. (A)
 Fenimore, Robert S. (A)
 Hoffman, Henry J. (A)
 Holloway, Gilbert C. (A)
 Pearl, Eugene S. (M)

Paterson

Gold, Herman (A)
 Kennedy, Arthur (A)
 Prince, Edward (A)
 Thompson, Harold J. (A)

Plainfield

Barbulesco, C. D. (M)
 Boise, E. C. (A)
 McCutchen, B. S. (M)
 Peck, A. P. (A)

Princeton

Morse, Phillip M. (A)

Rahway

Gibson, Robert D. (A)
 Seifried, A. E. (A)

Ramsey

Secor, Harry W. (A)

Red Bank

Applegate, William M. (A)
 Bruce, Edmond (A)
 Fairchild, F. Earle (A)
 Troxler, Lucien J. Jr. (A)

Ridgefield Park

Horton, Charles (M)

Ridgewood

Affel, Herman A. (A)
 Gordon, George (A)
 Smith, Theodore A. (A)

River Edge

Higson, Albert J. (A)
 Stoner, Donald M. (A)

Roselle Park

Berger, Maurice (M)
 Guber, Fred H. (A)
 Hanson, Oscar B. (M)

Horning, Robert H. (A)
 McNicol, Donald (F)

Rutherford

Carrougher, V. Attwood (A)
 Gage, David H. Jr. (M)
 Hild, George E. (A)
 Jackson, B. B. (A)
 Moorehead, George H. (A)

Secaucus

Smith, E. A. (A)

South Orange

Hartley, R. V. L. (M)
 Hertz, Stanton S. (A)
 Leeb, Henry L. (M)

Trenton

Frost, H. B. (A)
 Kelso, J. R. Jr. (A)
 Knowles, E. P. Jr. (A)
 Raser, Edward G. (A)
 Wentzel, Amandus Jr. (A)

Tuckerton

Flory, Carl L. (A)

Union City

Davies, Richard J. Jr. (A)
 McMurray, James W. (A)
 Schaefer, M. L. (A)

Upper Montclair

Godley, Paul F. (A)
 Hallborg, H. E. (M)
 Versfelt, Emery L. (A)

Weehawken

Smith, Arthur E. (A)

Westfield

Luster, Eric W. (A)

West Orange

Evans, P. H. (M)
 Nelson, Thomas F. (A)
 Woodcliffe-on-Hudson
 King, W. L. (A)
 Walsh, A. L. (A)

NEW MEXICO

Albuquerque

Buckley, E. T. (A)

State College

Goddard, Ralph W. (M)

Tucumcari

Todd, William F. (A)

NEW YORK

Albany

Harris, Leonard F. (A)
 Mallette, Willis C. (A)
 Skinkle, Myron H. Jr. (A)
 Young, Harold H. (A)

Batavia

Walker, Edward C. 3rd (A)

Binghamton

Hall, Victor E. (A)

Brewster

Van Horn, A. S. (A)

Bronxville

Muhleman, M. L. (A)
 Velasco, Jose M. (A)

Brooklyn

Adachi, William Y. (A)
 Ashworth, R. H. (A)
 Balzer, Peter (A)
 Bartnosky, Harry (A)
 Baum, Sydney H. (A)
 Bayles, Joseph (A)
 Bazley, Paul B. (A)

UNITED STATES (Continued)

Brooklyn (Continued)

Bernhard, Frederick S. (A)
 Bolz, Andrew L. (A)
 Borenstein, W. J. (A)
 Borislavsky, Michael A. (A)
 Brady, Arthur C. (A)
 Brandt, Kristian (A)
 Brimberg, Isaac (A)
 Browne, Walram S. (A)
 Bullock, Walter H. (A)
 Callahan, John L. (A)
 Calligheris, John S. (A)
 Canavaciol, Frank E. (A)
 Candido, J. V. (A)
 Capicotto, James V. (A)
 Carroll, James H. (A)
 Coe, Alfred (A)
 Cole, Fred S. (A)
 Coles, Arthur Jr. (A)
 Cook, Arthur L. (A)
 Densham, Robert S. (A)
 Dering, Fred J. (A)
 De Savoye, L. A. (A)
 Dolid, Abraham (A)
 Drew, Charles E. (M)
 Dunn, Lawrence J. (M)
 Edwards, Joseph B. (A)
 Frank, Henry (A)
 Frank, Julius (A)
 Fultz, M. E. (A)
 Funk, Harold H. (A)
 Galburt, Samuel (A)
 Garity, William E. (M)
 Gennaro, Michael (A)
 Gerdtz, Herman Jr. (A)
 Gifford, D. K. (A)
 Goddard, Frederick M. (A)
 Goldberg, Emanuel (A)
 Goustin, Joseph (A)
 Gritzner, Fred A. (A)
 Hadden, Weston (A)
 Hajos, Eugene (A)
 Hall, William C. (A)
 Halligan, Clair W. (A)
 Hart, Frank A. (A)
 Hausmann, Eric (M)
 Heddaens, John M. (A)
 Herman, Joseph M. (A)
 Hillebrand Henry G. (A)
 Hiller, H. E. (A)
 Hughes, William P. Jr. (A)
 Inskip, L. S. (A)
 Isaacson, Herbert M. (A)
 Johnson, George E. (A)
 Jorgensen, Wesley J. (A)
 Kasner, H. P. (A)
 Knight, Harold B. H. (A)
 Koerning, Raymond C. (A)
 Kriwan, Fred A. (A)
 Kroger, F. H. (M)
 Lefferts, B. (A)
 Le Queane, Charles A. (A)
 Leuteritz, H. C. (A)
 Locurto, Antonio (A)
 Logwood, Charles V. (M)
 Lorenz, Paul C. (A)
 Magnell, Carl A. (A)
 Maher, James F. J. (M)

Mahoney, Joseph N. (M)
 Marlott, Robert H. (F)
 Marsten, Jesse (M)
 McCarthy, C. J. (A)
 McKissack, W. C. Jr. (A)
 Miller, LeRoy J. (A)
 Millikin, Donald D. (A)
 Mirabella, Frank (A)
 Monroe, James (A)
 Moore, Henry H. (A)
 Morehouse, Raymond L. (A)
 Morris, R. R. (A)
 Muck, L. F. (A)
 Mullio, William A. (A)
 Nachemson, Paul (A)
 Parker, Oliver B. (A)
 Paulson, C. S. (A)
 Pearson, Herbert B. (A)
 Pease, R. M. (M)
 Peck, Gordon V. (A)
 Perry, H. D. (A)
 Peterson, Cornelius (A)
 Pillsbury, E. B. (A)
 Rau, Adolph H. (A)
 Reimer, A. C. (A)
 Rieg, Fred G. (A)
 Ringel, Abraham (M)
 Robertson, A. E. (A)
 Roden, Lester A. (A)
 Ross, U. B. (M)
 Saul, H. A. (A)
 Schick, William H. (A)
 Schlossberg, Morris (A)
 Schramm, Fred W. (A)
 Schwartz, Robert (A)
 Schwarzhaupt, Paul J. (M)
 Sethmann, Richard H. Jr. (A)
 Silver, B. L. (A)
 Sinsheimer, Arthur (A)
 Slater, Saul I. (A)
 Smith, Franklin S. (A)
 Smith, Perry C. (A)
 Solzberg, Jack (A)
 Starrett, John S. (A)
 Steinberg, Louis (A)
 Steinberger, Louis (M)
 Steiner, Melvin C. (A)
 Talley, David (A)
 Thomas, William A. 3rd (A)
 Trott, B. (A)
 Tuckerman, L. P. (A)
 Wardwell, Arthur S. (A)
 Weber, Paul (A)
 Weingast, S. M. (A)
 Weiss, Sidney (A)
 Werner, Pierre R. (A)
 White, Milton (A)
 White, William F. (A)
 Woodcock, Norman A. (A)
 Yager, H. B. (A)

Buffalo

Denton, J. B. (A)
 Elchman, John Jr. (A)
 Fox, Leon J. (A)
 Gensler, Edward J. (A)
 Hector, L. Grant (A)
 Henry, F. J. (A)
 Hinnens, Frank A. (F)
 Horle, Lawrence C. F. (F)
 Nichols, R. D. (A)

UNITED STATES (Continued)

Buffalo (Continued)

Porter, C. J. (A)
 Rattle, Clarence H. (A)
 Schnur, Henry R. (A)
 Stone, G. Edgar (A)
 Welscher, Carl E. (A)

Canton

Priest, Ward C. (A)

Carmel

Light, Frank B. (A)

Corning

Gage, Henry Phelps (A)

Croton-On-Hudson

Eckloff, L. L. (A)
 Lescaubour, A. C. (M)

Far Rockaway

Bombe, Albert A. (A)

Grasmere

Grimes, David (A)

Greece

Clarke, Maurice H. (A)

Ithaca

Merritt, Ernest (M)
 Meserve, Wilbur E. (A)
 Reich, Herbert J. (A)
 Smith, Lloyd P. (A)

Jamestown

Turner, Theodore J. (A)

Kenmore

Eckel, Charles B. (A)
 Henderson, K. L. (A)

Kingston

Ferrotta, Joseph L. (A)

Lockport

Hendricks, Paul S. (A)
 Lounsbury, I. R. Jr. (M)

LONG ISLAND

Astoria

Aull, Wilson (A)
 Ellis, Charles H. (A)
 Greene, Harry A. (A)
 Martin, Louis (A)
 Reynolds, John L. (A)
 Toepel, Walter A. (A)

Babylon

Smith, J. O. (M)

Bayside

Henline, H. H. (A)

Bellaire

Brennan, John B. Jr. (A)

Brightwaters

Camp, Lieut. V. F. (A)

Corona

Johnston, John D. (A)

Dongan Hills

McArdell, Wesley E. (A)

Douglas Manor

Wengant, Roy A. (F)

East Elmhurst

Schneider, Samuel (A)

East Marlon

Brown, Jesse E. (A)

Elmhurst

Eckweiler, George A. (A)
 Eckweiler, Warren M. Jr. (A)
 Freeman, E. E. (M)
 Millen, James (A)
 Paulin, W. D. (A)

Flushing

Brandt, Louis H. (A)

Forest Hills

Goodwin, W. C. (A)
 Mason, Edgar L. (A)
 Underhill, Charles R. (A)
 Waring, Alfred (A)

Freeport

Yost, John C. (A)

Garden City

Henney, Julian K. (M)
 Wing, Willis K. (M)

Hempstead

McClelland, Harold M. (M)

Hollis

Coxhead, Harry B. (M)
 Diehl, William F. (A)
 Ehlert, F. C. (A)
 Hotopp, Alfred H. Jr. (A)
 Maddan, Edwin M. (A)
 Rigney, Douglas (A)
 Srebroff, Charles M. (A)
 Williams, E. Malcolm (A)

Huntington Sta.

Griffen, Kenneth A. (A)

Jackson Heights

Harnett, Daniel E. (A)

Jamaica

Batcher, Ralph R. (M)
 Berel, Milton (A)
 Brown, E. A. (A)
 Phelps, Boyd (A)
 Spicer, Floyd O. (A)
 Sterns, Morton W. (M)
 Styles, T. J. (A)
 Wurn, Bernard (A)

Lawrence

Wilson, A. L. (A)

Little Neck

MacDonald, William A. (M)

Long Island City

Busch, Hugo W. (A)
 Farrand, C. L. (M)
 Harrison, P. (A)
 Newall, Benjamin E. (A)
 Tuttle, Clarence W. (A)

Oakdale Sta.

Whildin, T. N. (A)

Port Jefferson

Misenheimer, Harvey N. (A)

Richmond Hill

Grebe, Alfred H. (A)
 Leyh, William D. (A)
 Novy, Ernest W. (A)
 Oram, Donald K. (A)
 Rosewater, Edward (A)
 Schafer, J. Peter (A)
 Weinwurm, Robert (A)

Riverhead

Canfield, N. A. (A)
 Crosby, Murray G. (A)
 Matthews, Walter I. (A)
 Peterson, Harold O. (A)
 Pfautz, Christian E. (A)
 Rundquist, E. C. (A)

Rockville Center

Cardwell, Allen D. (A)
 Chase, George E. (A)
 Schudt, William A. Jr. (A)
 Weeks, Norman E. (A)

UNITED STATES (Continued)

Rocky Point

Dietsch, Carl G. (A)
Hansell, C. W. (A)
Usselman, G. L. (A)

Southampton

Pollard, Leon G. (A)

So. Ozone Park

Freericks, Bernard Jr. (A)

Sunnyside

Carter, Frank L. (A)

Water Mill

Corwith, H. P. (M)

Winfield

Barone, Salvatore A. (A)

Woodhaven

Speicher, J. D. (A)

Woodmere

Birkhahn, Robert C. (A)

Ziegler, Frederick J. (A)

Woodside

Di Blas, John (A)

Reuman, William H. (A)

NEW YORK

Lynbrook

Fedotoff, Nicholas V. (A)

Miller, Philip W. (A)

Mamaroneck

Boucheron, Pierre (M)

Jarabin, Frank G. (A)

Middletown

Fish, Edward H. (A)

Mt. Kisco

Kierstead, A. E. (A)

Mt. Vernon

Hueston, John J. (A)

McGuirk, F. W. (A)

Morgan, W. V. (A)

Saunders, Alfred W. (A)

Stone, Clarence G. Jr. (A)

New Rochelle

Dublier, William (M)

Estey, Clifford F. (A)

Nilson, Arthur R. (M)

New York

Adams, Ira J. (A)

Adams, Robert M. (A)

Adams, William J. Jr. (A)

Alexander, Louis (A)

Allen, John P. (A)

Almquist, Milton L. (A)

Alpern, Dwight K. (A)

Amv, Ernest V. (A)

Anderson, Clifford N. (A)

Anderson, Edwin C. (A)

Anderson, J. E. (A)

Anderson, P. A. (A)

Anderson, S. E. (A)

Andrews, Joseph F. (M)

Armstrong, E. H. (A)

Aster, Alvin K. (A)

Aubry, Pierce J. (A)

August, Ralph C. (A)

Austrian, Ralph B. (A)

Balley, Austin (M)

Bair, R. S. (A)

Barrows, George H. (A)

Batcheller, Arthur (M)

Behner, H. C. (M)

Bemis, Edwin W. (A)

Betts, Philander H. (A)

Beverage, Harold H. (M)

Bingham, Willbur Fisk (A)

Binns, John R. (A)

Bischoff, Charles F. (A)

Bishop, Nathaniel (A)

Blenheim, William J. (A)

Blackmar, Abel E. Jr. (A)

Blackwell, Otto B. (M)

Bobrovsky, Igor S. (A)

Boehme, H. O. (M)

Bouck, Zeh (M)

Boughton, F. W. Jr. (A)

Bowen, Arnold E. (A)

Bown, Ralph (F)

Braden, Rene A. (A)

Braendlein, Roy C. (A)

Bran, Frank H. (A)

Bril, Jack (A)

Brown, Charles J. (A)

Brown, D. S. (A)

Brunet, Meade (M)

Bucher, E. E. (M)

Buckley, B. E. (A)

Burchard, John C. (A)

Burghard, Ensign G. E. (M)

Burns, G. Austin (A)

Busch, G. A. (A)

Carson, John R. (M)

Cassell, Wesley L. (A)

Casem, David G. (M)

Chaffee, Joseph G. (A)

Chausen, H. P. (A)

Clayton, John M. (M)

Clement, Lewis M. (F)

Coggeshall, Ivan S. (A)

Cohen, Samuel (M)

Colpitts, E. H. (F)

Cooper, C. B. (A)

Corbett, Frank P. (A)

Corwin, Charles I. (A)

Craft, E. B. (F)

Critsky, M. N. (A)

Crocker, Stuart M. (A)

Crosby, George L. (M)

Csernick, Stephen F. (A)

Cunningham, H. C. (A)

Curry, Walter A. (A)

Curtis, Everett N. (A)

Cutting, Fulton (F)

Dannals, E. W. (M)

Danziger, Harold I. (A)

Darrow, Leo H. (A)

Deal, Harmon B. (A)

Dean, Samuel W. (M)

De Forest, Lee (F)

Demarest, Charles S. (M)

De Mello, William (A)

Desnoes, Arnold B. (A)

De Sousa, George S. (M)

Devlin, LeRoy A. (A)

Dickey, Edward T. (M)

Dietze, Eginhard (A)

Dreher, Carl (M)

Duncan, R. L. (M)

Dunham, John S. (A)

Dunlap, Orrin E. Jr. (M)

Dunn, Gano (F)

Dustin, E. J. (A)

UNITED STATES (Continued)

New York (Continued)

Emerson, C. W. Jr. (A)

Eldredge, Frank E. (M)

Enders, Charles E. (A)

Engel, Francis H. (A)

Espenschied, Lloyd (F)

Everett, L. C. (M)

Facey, John W. (A)

Farnsworth, Philip (F)

Farrington, John F. (A)

Field, John (A)

Finch, James L. (A)

Finch, W. G. H. (M)

Finkelstein, Sidney E. (A)

Finlay, Robert C. (A)

Fisher, G. J. R. (M)

Fisher, Herbert B. (A)

Follette, Lester C. (A)

Forbes, E. D. (F)

Ford, Seth B. (A)

Fox, John P. (A)

Frank, K. G. (M)

Freed, Joseph D. R. (M)

Freericks, Lambert (A)

Furia, John J. (A)

Furness, G. C. (M)

Fusco, Alphonse A. (A)

Gannett, Danforth K. (A)

Giese, Raymond C. (A)

Gilbert, John J. (A)

Glenn, Earl R. (A)

Goldsmith, Alfred N. (F)

Goulden, Stanley W. (M)

Graham, Frank H. (A)

Graham, William A. (M)

Gratzner, Raymond I. (A)

Green, Ashbel (A)

Greiff, Victor (M)

Griffiths, Clarence M. (A)

Guedalia, Jules (A)

Gulld, Baldwin (M)

Gunther, Frank A. (A)

Guy, Raymond F. (A) /

Halpern, J. (A)

Hanley, John F. (A)

Hansen, Edmund H. (M)

Harris, C. C. (A)

Hart, Roy H. (M)

Hartzell, C. C. (A)

Havekost, J. T. (A)

Haynes, A. J. (A)

Heberlein, Arthur A. (A)

Heising, R. A. (F)

Helm, C. H. (A)

Herber, J. C. (A)

Herbert, Harold R. (A)

Herts, Jacques H. (A)

Hertzberg, Robert (A)

Hindline, Harris D. (M)

Hogan, John V. L. (F)

Holcombe, Henry W. (M)

Holden, W. H. T. (A)

Holloway, Jack (A)

Holzmark, H. P. (A)

Honaman, R. Karl (A)

Hoopes, Thomas T. (A)

Horneij, Henry O. (M)

Hornung, Julius L. (A)

Horton, J. W. (A)

Houck, Harry W. (A)

Hough, C. W. (A)

Howell, Walter J. (M)

Hubbard, Frank A. (A)

Isele, H. A. (A)

Jackson, Clarence C. (M)

Jacobs, Isa W. (A)

Jamross, Rudolph (A)

Janke, Alfred H. (M)

Jewett, E. B. (F)

Johnson, J. Kelly (A)

Jones, Lester L. (F)

Kahant, Charles G. (A)

Kane, James E. (A)

Jane, James M. (A)

Kayser, Herbert (A)

Keefe, Oscar A. (A)

Kelly, C. M. Jr. (A)

Kelly, Mervin J. (M)

Kennedy, James A. (A)

Kilbourne, C. G. (A)

Kilmer, T. W. Jr. (A)

King, Frank (A)

Kishpaugh, Arthur Wells (A)

Klock, Raymond A. (A)

Klosner, Morris (A)

Klety, Adolph (A)

Knapp, Joseph F. (A)

Knettel, Harry R. (A)

Knight, Octavius (A)

Knopp, Ernest (A)

Knowles, Hugh S. (A)

Kuhn, Alfred S. (A)

Laenull, Robert E. (A)

Lack, Frederick R. (A)

Lamarque, James W. (A)

Lambert, S. J. (A)

Lane, Frederic A. (A)

Larsen, O. S. (A)

Latimer, C. W. (A)

Lawn, Grant (A)

Lazarovich-Hrebelianovich, D.

Dec. (A)

Lee, Emery H. I. (M)

Leibe, Frank A. (A)

Leighton, Lee (A)

Lemmon, Walter S. (A)

Lenz, Charles S. (A)

Leslie, Fred D. (A)

Levy, Mortimer N. (A)

Lewis, Elmer H. (A)

Lilliard, O. W. (A)

Lindam, Elif (A)

Lindmark, Elmer S. (A)

Lindsay, Russell H. (A)

Lloyd, T. M. (A)

Loftin, Edward H. (M)

Lolass, Alexander (A)

Long, Maurice B. (A)

Loynes, Owen H. (A)

Lundahl, Karl J. (A)

Lynch, Arthur (M)

Mac'oun, Townsend D. (A)

MacDonnell, James M. (M)

MacEvain, Karl M. (A)

Maddox, C. H. (M)

Mallory, E. B. (M)

Manderfeld, E. C. (A)

Mapes, S. Herbert (A)

UNITED STATES (Continued)

New York (Continued)

Marcy, Alfred R. (A)
 Mardon, F. H. (A)
 Marshall, Cesar B. (A)
 Martin, De Loss K. (M)
 Mauran, John (A)
 Maylott, Carleton F. (A)
 McFarlane, M. L. D. (A)
 McLagan, Donald R. (A)
 McLean, Philip S. (A)
 McMinn, Stanley P. (A)
 McNally, James O. (A)
 Meyer, Louis F. (A)
 Miles, W. E. (A)
 Miller, Leonard H. (A)
 Miller, Marvin L. (A)
 Miller, Samuel C. (M)
 Mills, John (M)
 Millstein, Irving (A)
 Milnor, J. Willard (M)
 Molzen, Charles F. (A)
 Moran, Dyonis M. (A)
 Morecroft, J. H. (F)
 Muller, Herbert W. (A)
 Naimark, Boris S. (A)
 Nally, Edward J. (A)
 Nance, Curtis H. (M)
 Nein, H. R. (A)
 Nelson, E. L. (M)
 Nelson, Gerald D. (A)
 Newman, Alfred C. (A)
 Nicely, Ralph N. (A)
 Nichols, Leroy C. (A)
 Nielsen, John E. (A)
 Nixon, L. A. (A)
 Noden, B. Harrison (A)
 Norberg, Clifford M. (A)
 Nyman, Alexander (M)
 O'Clery, L. (A)
 Ohl, Russell S. (M)
 Oikle, O. A. (A)
 Osborne, Harold S. (A)
 Oscanyan, Paul C. Jr. (A)
 Oswald, Arthur A. (M)
 Owens, Richard M. (A)
 Pacent, Louis G. (F)
 Parker, R. D. (A)
 Pate, Carlton O. (A)
 Pegram, Geo. B. (A)
 Peterson, L. C. (A)
 Phelan, Thomas E. (A)
 Picker, Sidney I. (A)
 Pierce, Franklin W. (A)
 Pischzan, Hans E. (A)
 Pitkin, Lester K. (A)
 Ports, Earl G. (A)
 Potter, Ralph K. (M)
 Powell, Ralph C. Jr. (A)
 Powers, Alvin J. (A)
 Powers, W. O. (A)
 Price, H. Stewart (M)
 Pumphrey, Walter H. (M)
 Pupin, M. I. (F)
 Ranger, Richard H. (M)
 Reb, Frank F. (A)
 Reber, Samuel (F)
 Reeber, Herman E. (A)
 Regottaz, Joseph M. (A)

Reoch, A. E. (F)
 Reuthe, Gustav (M)
 Rhodes, T. B. (A)
 Rider, John F. (A)
 Ritz, Charles C. (A)
 Roberts, W. Van Braam (A)
 Rodwin, George (A)
 Roos, Oscar C. (F)
 Rose, Arthur F. (M)
 Rossi, R. J. T. (A)
 Rossmassler, Edward C. (A)
 Rothman, Abraham (A)
 Ruben, Alvin S. (A)
 Ryan, Francis M. (M)
 Ryplinski, Maurice C. (A)
 Sachs, Harold S. (A)
 Sacia, C. F. (A)
 Sandalls, George T. Jr. (A)
 Santos, Anthony S. (A)
 Sarnoff, David (F)
 Schaffstall, R. F. (A)
 Schelleng, J. C. (M)
 Schenke, Kurtiss P. (A)
 Schmied, James W. (A)
 Schmitt, Dominie F. (A)
 Schneek, Harry L. (A)
 Schnoll, Nathan (A)
 Scholle, Frederick (A)
 Schultes, Martin F. (A)
 Searling, Hudson R. (A)
 Shannon, James E. (A)
 Shannon, Joseph H. (M)
 Shute, Emmett R. (M)
 Silent, Harold C. (A)
 Simon, Emil J. (F)
 Singer, Emanuel (A)
 Sinrelch, Nathan (A)
 Sivan, Leon J. (A)
 Sleeper, Milton B. (M)
 Small, P. L. (A)
 Smith, Joseph T. (A)
 Snee, Thomas H. (M)
 Snook, H. Clyde (M)
 Snow, William B. (A)
 Sohor, P. H. (A)
 Somersalo, G. A. (A)
 Sonkin, David (M)
 Southworth, G. C. (M)
 Spence, P. W. (A)
 Spencer, George E. (A)
 Spielman, H. Max (A)
 Sporty, Sidney (A)
 Sprague, Clarence A. (M)
 Stansel, Frank R. (A)
 Sterba, E. J. (A)
 Stevens, A. M. (M)
 Taussig, Charles W. (A)
 Taylor, Charles H. (F)
 Taylor, Edmund Randolph (A)
 Taylor, Rex W. (A)
 Taylor, S. Gordon (A)
 Teeter, Albert A. (A)
 Terry, L. M. (A)
 Terwilliger, Donald J. (A)
 Thiele, E. J. (A)
 Thomas, W. M. (A)
 Thompson, Albert C. (A)
 Thorburn, James M. (M)
 Thurston, George (A)
 Tierney, Walter L. (M)

UNITED STATES (Continued)

New York (Continued)

Toth, Albert F. (A)
 Vaill, Edward W. (A)
 Vreeland, Frederick K. (F)
 Van Wyck, W. P. (A)
 Wald, David (A)
 Wallach, M. U. (A)
 Wang, Shou Chin (A)
 Warsh, Maurice (A)
 Washington, Bowden (F)
 Waterman, F. N. (M)
 Watt, Lewis (A)
 Weinberger, J. (F)
 Westfield, J. (A)
 Whitehead, Jesse C. (A)
 Whiting, Donald F. (M)
 Whittemore, Laurens E. (M)
 Wilbur, Edwin C. (A)
 Willhoff, F. O. (A)
 Willis, Frederick C. (A)
 Wilson, Leon T. (M)
 Wilson, William (M)
 Winner, Lewis (A)
 Winterbottom, W. A. (A)
 Wintringham, W. T. (A)
 Wise, Roger M. (A)
 Woodrow, William (A)
 Wright, Carleton Fay (A)
 Wright, Marshall C. (A)
 Young, Owen D. (M)
 Yule, Leslie W. (A)
 Zeamans, Harold R. (A)

Niagara Falls
 White, J. A. (A)

North Tonawanda
 Belling, G. C. C. (A)
 Wood, A. A. (A)

Nyack
 Freedman, William H. (A)

Ossining
 Akin, R. M. Jr. (A)
 Christy, D. P. T. (A)
 Gowan, Robert F. (M)

Plattsburgh
 Hughes, E. C. (A)

Poughkeepsie
 Cruger, B. W. (A)
 Maxwell, George G. (A)

Riverdale
 High, John M. Jr. (A)

Rochester
 Balling, Alfred W. (A)
 Brown, Gordon P. (A)
 Brown, Howard A. (A)
 Conover, John A. (A)
 Dean, John R. (A)
 Dengler, Clarence E. (A)
 Dye, Leaman A. (A)
 Gordon, H. E. (A)
 Graham, V. M. (M)
 Greenman, Roger B. (A)
 Handler, Eugene H. (A)
 Hitchcock, Joseph E. (A)
 Huntington, M. B. (A)
 Johnson, M. E. (A)
 Karker, Earl C. (A)
 Klumb, Harvey J. (A)
 Knudsen, Casper B. (A)

Levy, Maurice L. (A)
 Longworth, Arthur W. (A)
 Manson, Ray H. (M)
 Marshall, Reed C. (A)
 Martin, Victor G. (A)
 McLaughlin, J. L. (A)
 Mott, F. A. (A)
 Reynolds, F. W. (A)
 Roeser, Edward A. (A)
 Royle, Allan R. (A)
 Schneider, Mendell (A)
 Schoen, Arthur L. (A)
 Sheve, Henry C. (A)
 Sigl, A. J. (A)
 Simpson, A. K. (A)
 Soderholm, Arthur E. (A)
 Sutton, Lewis H. (A)
 White, W. W. (A)
 Wood, M. A. (A)

Saratac Lake
 Williams, T. E. (A)

Scarsdale
 Higgins, Alfred K. (A)
 Kinsley, Carl (M)

Schenectady
 Alexanderson, E. 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)
 Berejko, A. P. (A)
 Berg, Ernest J. (A)
 Bradbury, Burke (A)
 Brinkman, L. M. (A)
 Brockman, Francis C. (A)
 Brokaw, Charles A. (A)
 Brown, W. W. (M)
 Burrill, Charles M. (A)
 Byrnes, Irving F. (A)
 Carlson, Wendell L. (A)
 Carpenter, Glenn W. (A)
 Carter, E. Finley (A)
 Chittick, Kenneth A. (A)
 Crippen, Eugene G. (A)
 Cummings, B. Ray (M)
 Darlington, Eugene S. (A)
 David, W. R. (A)
 Detar, Donald R. (A)
 Devaud, Albert J. (A)
 East, Lawrence A. W. (A)
 Edwards, E. P. (A)
 Engstrom, Elmer W. (A)
 Ford, Warren A. (A)
 Forrest, Paul E. (A)
 Fortin, P. R. (A)
 French, Henry G. (A)
 Grover, Frederick W. (M)
 Hartman, Frank C. (A)
 Henyan, George W. (A)
 Holmes, R. S. (A)
 Hoxie, Charles A. (A)
 Jackson, Henry W. (M)
 Johnson, T. Jr. (M)
 Jones, L. F. 3rd (A)
 Jones, N. R. (A)
 Junken, L. H. (A)
 Knar, Ira J. (A)
 Kendall, J. M. (A)

UNITED STATES (Continued)

Schenectady (Continued)

Kinney, Ely M. (A)
 Knott, William M. (A)
 Langmuir, Irving (F)
 Leibling, J. K. (A)
 Loughren, Arthur V. (A)
 Love, J. Edwin Jr. (A)
 Lyndon, William L. (A)
 McCane, Ames (A)
 McCullough, Maurice B. (A)
 Mead, Milton S. Jr. (A)
 Mosher, J. H. (A)
 Mullaney, Dudley A. (A)
 Nolte, Henry J. (A)
 Pike, Otis W. (A)
 Priest, C. A. (A)
 Pulley, Albert A. (A)
 Rice, Chester W. (M)
 Richardson, L. Walton (A)
 Richmond, L. P. (A)
 Ring, Andrew D. (A)
 Rochford, John (A)
 Rockwood, Alan C. (A)
 Rumble, Alfred R. (A)
 Sadenwater, Harry (M)
 Scheldorf, Marvel W. (A)
 Simonds, D. T. (A)
 Singleton, Harold C. (A)
 Snyder, Norman (A)
 Steen, Jerome R. (A)
 Stein, Adam Jr. (F)
 Sutton, George O. (A)
 Taylor, James C. (A)
 Taylor, L. A. (A)
 Tuttle, Thomas W. (A)
 Vose, Charles H. (A)
 Waldhorst, Frank (A)
 Walker, C. L. (A)
 Waltman, W. H. (A)
 Warner, John C. (M)
 Weir, I. R. (A)
 Wells, Glenn H. (A)
 Weston, J. L. (A)
 Whelan, Dow O. (A)
 White, William C. (M)
 Wilson, Donald (A)
 Young, Charles J. (A)

Scotia

Austin, Kirby B. (A)
 Ballentine, E. C. (A)
 Butler, H. R. (A)
 Cook, E. D. (A)
 Fick, Clifford G. (A)
 Fritschel, Eugene (A)

Snyder

Rieger, John G. (A)

Stafford

Sheffer, Olan N. (A)

Stapleton

Willby, Edward W. (A)

Suffern

Ennis, Fred E. (A)

Syracuse

Bowman, W. Harvey (A)
 Nicholson, E. J. (A)
 Porter, R. A. (A)
 Potter, Melville R. (A)
 Randall, D. P. (A)

Wolverton, Byron C. (A)

Tarrytown

Dinga, Emil (A)

Troy

Ellsworth, W. C. E. (A)

Utica

Hoag, Yates M. (A)
 Peck, E. P. (A)
 Pickett, Glenn H. (A)

Watkins

Pomeroy, R. C. (A)

Welfare Island

Hurlbut, Ronald (A)

West Albany

Miller, Harold D. (A)

West New Brighton

Fletcher, E. S. (M)

West Point

Wenstrom, W. H. (A)

White Plains

Griggs, Elmer V. (A)
 Halstead, William S. (A)
 Lant, E. B. (A)
 Minton, John P. (F)

Williamsville

Trago, Robert A. (A)

Yonkers

Estberg, Hugo L. (A)
 Grand, Jacob (A)
 Runyon, C. R. Jr. (A)
 Turner, Alva (A)
 Van Dyck, A. F. (F)

NORTH CAROLINA

Arden

Wetmore, T. B. (A)

Charlotte

Gluck, E. J. (A)

Durham

Seeley, Walter J. (A)

Raleigh

Cox, Major G. C. (A)

Wilmington

Dorsey, Herbert G. (M)

NORTH DAKOTA

Bismark

Haag, Merlin W. (A)

Fargo

Hance, Kenneth M. (A)

Grand Forks

Bennett, Robert W. Jr. (A)
 Garad, Earl A. (M)
 Grove, George A. (A)
 Hauck, Vernon B. (A)
 Jenkins, D. R. (A)

Mandan

Nordholm, Andrew W. (A)

OHIO

Akron

Altenhead, John Jr. (A)
 Jones, Philip Chapin (A)
 Mintz, John W. (A)
 Palmer, Roland F. (A)
 Schwallb, Walter J. (A)
 Starr, Troy S. (A)
 Townsend, S. W. (A)
 Weaver, Raymann E. (A)

Ashland

Fox, Robert A. (A)

Ashtabula

Collins, J. A. (A)

UNITED STATES (Continued)

Avon Lake

Harris, John (A)

Canton

Boger, Clair E. (A)
 Herbruck, W. M. (A)
 Weckel, Wilson E. (A)

Cincinnati

Albee, Norman E. (A)
 Baker, Donald F. (A)
 Brinkman, W. J. (A)
 Bussard, E. J. H. (A)
 Craig, Palmer H. (A)
 Crosley, Powell Jr. (M)
 Gray, George J. (A)
 Greene, Paul A. (M)
 Hayes, Charles (A)
 Israel, Dorman D. (A)
 Jarvis, K. W. (A)
 Kellogg, Leonard A. (A)
 Lampkin, Guy F. (A)
 Langley, Ralph H. (M)
 Lehnhoff, Raymond G. (A)
 Loofbrourow, J. R. (A)
 Marzulli, Angelo M. (A)
 Ogden, Perry V. (A)
 Osterbrock, W. C. (A)
 Owen, C. H. (A)
 Peterson, C. W. (A)
 Schaefer, C. A. Jr. (A)
 Schroeder, B. P. (A)
 Shepherd, Edward L. (A)
 Spilman, Charles M. (A)
 Youngs, Howard E. (A)

Cleveland

Anderson, R. T. (A)
 Baldwin, L. G. (A)
 Beasley, Ira E. (A)
 Black, A. J. (A)
 Bowditch, Fred T. (A)
 Canady, Donald R. (A)
 Canfield, Ira A. (A)
 Cusack, S. C. (A)
 David, Bruce W. (M)
 Disbrow, John D. (A)
 Donaldson, Robert O. (A)
 Erwin, R. W. (A)
 Gardner, Howard S. (A)
 Herbst, John A. (A)
 Kaehnl, F. J. (A)
 Klein, Israel (A)
 Little, D. S. (A)
 Mellyvalne, H. A. (M)
 McMahon, Alvin M. (A)
 Newman, Joseph S. (A)
 Nielsen, H. V. (A)
 O'Connor, Albert J. (A)
 Pruitt, Wilbur C. (A)
 Schregardus, Dirk (A)
 Scott, Hoyt S. (A)
 Tummonds, Harry A. (A)
 Victoreen, John A. (A)
 Walker, George W. (A)
 Weide, Frank W. (A)
 Wright, Charles A. (A)

Columbus

Cole, Alfred D. (A)
 Everitt, William L. (A)

Higgy, Robert C. (A)

Krumm, L. R. (M)

Dayton

Copp, R. S. (A)
 Flewelling, Edmund T. (A)
 Hendricks, Lester A. (A)
 Hines, Albert D. (A)
 Linxweiler, Carl J. (A)
 Smith, H. F. (A)

East Cleveland

Carlton, R. A. (A)
 Gimmy, N. H. (A)
 Leonard, Edwin S. Jr. (A)

Elyria

Schwab, Charles B. (A)

Granville

Clark, James V. (A)

Greenville

Lohman, R. S. (A)

Harrison

Whitehouse, Joseph E. (A)

Lakewood

Covey, Gerald G. (A)
 Marsul, P. A. (A)
 Sturevant, J. W. (A)
 Worden, Ralph P. (A)

Minford

Allen, Alva J. (A)

Mt. Healthy

Kilgour, Charles E. (A)

New Concord

Martin, Paul E. (A)

Norwood

Blair, R. M. (A)

Portsmouth

Feyler, H. C. (A)

Sandusky

Voight, Richard J. (A)

Springfield

Reld, T. A. (A)

Toledo

Foley, J. W. B. (A)
 Matzinger, Herbert (A)

Uhrichsville

Mong, John R. (A)

Van Wert

Kissel, Alfred L. (A)

Warren

Fleming, Edward E. (A)
 Götts, Victor D. (A)

Zanesville

Rlston, Samuel L. (A)

OKLAHOMA

Bristow

Murray, Archie A. (A)

Chelsea

Jones, V. L. (A)

Fort Sill

Sawbridge, Ben M. (A)

Muskogee

Kershner, V. H. (A)

Norman

Green, William G. (A)

Oklahoma City

Challenner, Ansel (A)
 Cones, E. B. (A)
 Gilkey, Jay E. (A)
 Phillips, James H. (A)
 Wallace, David R. (A)

UNITED STATES (Continued)

Peckham
Brown, Edwin C. (A)
Ponca City
Peters, Leo J. (A)
Shawnee
Montgomery, L. E. (A)
Stillwater
Kositzky, James C. (A)
Tulsa
Holland, Francis L. (A)
Probert, Edward (A)

OREGON

Eugene
Hoppe, Paul R. (A)
Hillsboro
Gould, G. B. (A)
Julien, Ira F. (M)
Medford
Scott, L. L. (A)
Portland
Austin, Charles L. (A)
Clark, G. W. (A)
Dady, Arthur O. (A)
Edison, Howard L. (A)
Johnson, I. W. (A)
Last, George O. (A)

PENNSYLVANIA

Abrington
Weber, Chas. W. (A)
Adella
Woodward, Bruce J. (A)
Aldan
Earle, Ralph P. (A)
Allentown
Hardner, Francis J. (A)
Ardmore
Hayes, Ralph S. (A)
Lackland, Ernest T. (A)
Wilkinson, Gordon O. (A)
Worrell, Howard S. (A)
Bala-Cynwyd
Croft, Samuel Harold (A)
Berwyn
Seeley, S. W. (A)
Bethlehem
Diamond, Harry (A)
Shuhart, John H. (A)
Webb, J. S. (A)
Bryn Mawr
Tuttle, William N. (A)
Chester
Rapagnani, Peter A. (A)
Connellsville
Armstrong, R. M. (A)
Cooper, R. S. (A)
McKinley, J. G. Jr. (A)
Sly, Edward E. (A)
Curwensville
Bennington, R. F. (A)
Darby
Knight, W. W. (A)
East Pittsburgh
Chubb, L. Warrington (M)
Conrad, Frank (F)
Kintner, S. M. (F)
Sutherland, Lee (A)
Williams, Gurdon H. (A)

Edgewood

Lewis, L. V. (A)
McCullough, F. S. (M)
Emporium
Rishell, George L. (A)
Erle
Richardson, A. H. (A)
Etna Br.
Johnstone, R. S. (A)
Gettysburg
Baker, H. W. (A)
Glenfield
Pryor, William D. Jr. (A)
Glenside
Griffith, Charles H. (A)
Whitaker, John C. (A)
Greensburg
Hawk, William K. (A)
Harrisburg
Gardner, W. L. Jr. (A)
Grim, Clair R. (A)
Novinger, Earl M. (A)
Peffer, Ralph M. (A)
Sawyer, C. N. (A)
Stelger, Charles H. (A)
Thrush, Paul W. (A)
Kingston
Brown, Ralph M. (A)
Lancaster
Gaintner, J. R. (A)
Heseltin, Charles C. (A)
Mathiot, J. E. (A)
Lansdowne
August, Earl W. (A)
Lemoyne
Schwanger, Robert M. (A)
Media
Delbert, Simon, Jr. (A)
Melrose Park
Drueding, Albert J. (A)
Minersville
Kear, Frank G. Jr. (A)
Narberth
Kneber, Clarence R. (A)
Rafferty, F. A. (M)
Norristown
Cass, John C. Jr. (A)
Place, Samuel Wilson (A)
North Wales
Hendricks, Clarence B. (A)
Sayre, William L. (A)
Philadelphia
Arnold, John P. (A)
Bartlett, M. C. (A)
Benson, Thomas W. (A)
Blacker, Herbert L. (A)
Brown, Henry J. (A)
Brown, H. W. (A)
Brown, William L. (A)
Buehl, Louis H. Jr. (A)
Burnside, D. G. (A)
Cook, Don C. (A)
Eby, H. H. (A)
Eckert, Edward J. (A)
Ehret, Cornelius D. (F)
Elkin, Harry (A)
Evans, Frank (A)
Fithian, William S. (A)
Fossett, Fred E. (A)
Freedman, H. J. (A)

UNITED STATES (Continued)

Philadelphia (Continued)

Godsho, Albert P. (A)
Goebel, Eugene S. (A)
Hitch, Earl H. (A)
Holland, Walter E. (M)
Holtzner, Ralph (A)
Kloss, F. W. (A)
Lloyd, R. E. (A)
Logan, William S. (A)
MacFadden, Wilford G. (A)
MacHugh, William L. (A)
Mageoch, Yale (A)
Mezger, George (A)
Miller, John M. (F)
Milne, Richard S. (A)
Mouradian, H. (A)
Mazk, John Jr. (A)
Nassau, Joseph M. (A)
Neutra, Benjamin B. (A)
Nicholson, F. H. (A)
Nikel, Frank Jr. (A)
Oppenheimer, Walter L. (A)
Reeb, Alfred (A)
Saunders, William P. (A)
Schumacher, J. G. (A)
Shafer, Albert G. (A)
Snyder, R. L. (A)
Spender, Raymond M. (A)
Stewart, George (A)
Thompson, Roland F. (A)
Trinkle, W. S. (A)
Tuska, C. D. (A)
Tuttle, E. B. (A)
Van Horn, J. C. (M)
Van Housen, C. H. (A)
Weyl, Charles N. (M)
Bowers, J. Vinton (A)

Phoenixville

Babcock, Wallace C. (A)

Pittsburgh

Armor, James C. (A)
Baumgarten, Frank A. (A)
Buzzard, A. Joel (A)
Carothers, W. D. M. (A)
Chambers, J. O. (A)
Coleman, John B. (A)
Davis, R. L. (A)
Dill, George C. (A)
Forbes, Henry C. (A)
Forstall, Edward L. (A)
Gorham, Robert C. (A)
Greenlade, G. R. (A)
Griffith, R. T. (A)
Grubb, William L. (A)
Johnston, Allan T. (A)
Lazich, Branko (A)
Little, Donald G. (A)
McElroy, W. R. (A)
Pulley, Lester A. (A)
Shafer, William L. (A)
Shuey, Paul F. (A)
Staeger, Stephen A. (A)
Terven, Lewis A. (M)
Thomas, William K. (A)
Wiggin, Parker E. (A)

Port Kennedy

Harmon, Walter S. (A)

Pottsville

Cornwell, L. B. (A)

Reading

Albert, William V. (A)
Kissinger, J. Herbert (A)
Harper, Louis H. (A)

Scranton

Dolph, Stanley E. (A)
Gager, F. Malcolm (A)
Irving, Ira M. (A)
Stevens, Wilbur C. (A)
Witekewski, J. F. (A)

St. David's

Stewart, Chas. H. (M)

Sharon

Runkin, Samuel A. (A)

Smethport

Biever, Fred H. (A)
Pierotti, William L. (A)

South Bethlehem

Seyfret, Stanley S. (M)

Sunbury

Fetter, George F. (A)

Swarthmore

Fairbanks, Edmond U. (A)
Fussell, Lewis (A)

Swatara

Cassady, P. H. (A)

Swissvale

Hewitt, C. Tefft (A)

Upper Darby

Chamberlain, N. M. (A)
Sharpless, A. Roberts (A)

Wernersville

Stanton, R. E. (A)

West Philadelphia

Knoll, Lloyd M. (M)
Muncy, Allan R. (A)

White Haven

Ballantine, Stuart (A)

Wilkes-Barre

Stenger, J. H. (A)

Wilkesburg

Brindley, William E. (A)
Balsley, James R. (A)
Batsel, M. C. (A)
Boddie, Clarence A. (A)
Dalzell, C. W. (A)
Ellert, Charles A. (A)
Falknor, Frank B. (A)
Horn, Charles W. (A)
Irving, Herbert W. (A)
Johns, F. J. (A)
Koch, W. R. (A)
Mag, Anthony (A)
Trouant, Virgil E. (A)

Williamsport

Dickert, James E. (A)

York

Lever, P. R. E. (A)
Overmiller, Clair M. (A)

RHODE ISLAND

Eden Park

Cumerford, Arthur S. (A)

Edgewood

Massie, Walter W. (M)

Narragansett Pier

Dow, Harold C. (A)

UNITED STATES (Continued)

Newport
Grafe, Hans R. (A)
Kelly, John H. Jr. (A)

Providence
Cote, Omer E. (A)
Laurent, Herbert St. (A)
Putnam, J. P. (A)

SOUTH CAROLINA
Clemson College
Garrison, Paul J. (A)

Spartanburg
Bangs, Philip C. (A)

SOUTH DAKOTA
Brookings
Crothers, H. M. (A)

Rapid City
Halley, S. R. (A)
Kammerman, J. O. (A)

Vermillion
Cosandey, Charles J. (A)

TENNESSEE
Chattanooga
George, E. E. (A)

Dayton
Moss, W. Hall (A)

Knoxville
Hutchinson, C. (A)

McMinnville
Wilson, W. H. (A)

Nashville
Parkes, T. L. (A)

TEXAS
Angleton
Sweeney, Carey P. (A)

Beaumont
Trevey, C. B. (A)

Beeville
Hall, Henry W. (A)

Breckenridge
Stewart, William H. (A)

Cedar Hill
Wilson, D. V. (A)

College Station
Yates, Clarence C. (A)

Dallas
Artzt, M. (A)
Corry, Hal F. (A)
Crabtree, Alfred E. (A)
Galnes, James B. (A)
Hull, B. D. (A)
Lawther, H. P. Jr. (A)
Lewis, William S. (A)
Parker, Ray D. (A)
Smith, Thomas F. (A)
Walanka, M. R. (A)

Denison
Wilkinson, Lee A. (A)

El Paso
Henry, C. J. (A)
Morris, George W. (A)

Fort Bliss
Walmsley, S. M. (A)

Fort Worth
Branch, William E. (M)
Evans, David W. (A)
Sullivan, J. R. (A)

Houston
Austin, Francis M. (A)

Chinski, G. R. (A)
Duncan, James E. (A)
Dupree, E. M. (A)
Hoskins, Laban A. (A)
Patchin, N. A. (A)
Peine, Louis (A)
Ricker, Norman H. (A)
Sweet, Reginald C. (A)
Zimmerman, G. E. (A)

Mercedes
Schmittter, Ray M. (A)

Orange
Doane, E. M. (A)

San Antonio
Egerton, W. G. (A)
Norwood, Donald W. (A)
Rayburn, Geoffrey B. (A)

San Benito
Eubank, Buford G. (A)
Graver, Fred E. (A)

Waco
Jackson, Frank P. (A)

UTAH
Eureka
Manson, Donald L. (A)

Salt Lake City
Johnson Art. (A)

VERMONT
Waitsfield
Farr, Alton E. (A)

VIRGINIA
Alexandria
Dowie, James A. (M)
Evans, Louis M. (A)

Danville
Clarke, Allen S. (A)

Langley Field
Culver, C. C. (M)

Norfolk
Kelly, George W. Jr. (A)
Little, Tom F. (A)
Swanson, John W. (M)

Portsmouth
Barrt, J. C. (A)

Roanoke
Maddox, Francis E. (A)

WASHINGTON
Bremerton
Berkhelmer, R. H. (A)
Bouson, Herbert H. (M)
Rowe, V. G. (A)
Wesseler, William O. (A)
Wilson, George F. (A)
Wilson, Robert B. (A)

Camp Lewis
Shaw, Robert M. (A)

Puget Sound
Robison, Samuel S. (F)

Seattle
Bach, Roy O. (A)
Holstead, Archie L. (A)
Deardorff, Ralph W. (A)
Demuth, Orin A. (A)
Dow, Jennings B. (M)
Eastman, Austin V. (A)
Greenway, Lewis D. (A)
Greig, John (A)
Griffith, M. H. (A)
Howlett, John E. (A)
Iversen, Iver V. (A)

UNITED STATES (Continued)

Seattle (Continued)
Kalin, Albert (A)
Kleist, Walter A. (A)
Kraft, Vincent I. (A)
Renfro, H. E. (A)
Scott, Herbert J. (A)
Simpson, Frederick G. (F)
Smelser, L. J. (A)
Tolmie, J. R. (A)
Williams, Charles E. (M)
Willson, Abner R. (A)
Wynne, Walter M. (A)
Woolley, Myles L. (A)

Spokane
Ball, C. E. (A)
Drobig, Leo (A)
Eberly, Austin D. (A)
Wimmer, Joseph (A)

WEST VIRGINIA

Charleston
Dawson, Charles S. (A)

Clarksburg
Chorpensing, George B. (A)
Corbin, H. S. (A)

Huntington
Evans, William G. Jr. (A)

Morgantown
Colwell, Robert C. (A)

Triadelphia
Nelson, J. L. (A)

Wheeling
Hamilton, J. W. (A)
Maguire, Eugene (A)
Stroebel, John C. Jr. (M)

WISCONSIN

Antigo
Matthias, Lynn H. (A)

Appleton
Welmer, Henry (A)

Dodgeville
McCallen, A. M. (A)

Kenosha
Pellshek, Roy A. (A)

La Crosse
VanLoan, Cullen G. (A)

Madison
Aiken, Charles B. P. (A)
Bennett, Edward (F)
Curran, George W. (A)
Evans, Herbert P. (A)
Hoffman, W. Hollis (A)
Miller, Burton F. (A)
Schnell, Fred H. (M)
Terry, Earle M. (A)

Manitowoc
Koch, Robert O. (A)

Milwaukee
Almes, William E. (A)
Brafford, Charles P. (A)
Cordes, E. L. (A)
Davis, Chester L. (A)
Gabriel, Arnold C. (A)
Hansen, Bernard P. (A)
Hillegas-Halrd, L. S. (A)
Hostetler, Amos C. (A)
Kechler, A. A. (A)
McCoy, M. H. (A)
Neu, Samuel S. (A)

Pfeiffer, Joseph W. (A)
Richardson, M. S. (A)
Ritter, Ralph B. (A)
Rohwer, P. C. (A)
Sherman, Harold W. (A)
Simon, Arthur (A)
Snead, Sam (A)
Stoeckle, Erwin R. (M)
Topolinski, Leo J. (A)

Port Washington
Boerner, T. J. (A)

Racine
Perry, William N. (A)

Sheboygan
Pfeiffer, L. F. (A)

South Milwaukee
Wareing, Herbert F. (A)

Stevens Point
Brickson, H. O. (A)
Hebal, William H. (A)

Wauwatosa
Devendorf, Harold H. (A)
Swanson, Earl H. (A)

West Allis
Schunck, F. D. (A)

WYOMING

Buffalo
Crouter, Leslie E. (A)

Jackson
Pederson, C. D. (A)

ALASKA

Stephens, Fred H. (A)

CANAL ZONE

Bullock, G. D. (A)
Crawford, D. M. (A)
Lyman, Reginald P. (M)
Potest, Daniel P. (A)

HAWAII

Baleh, J. H. (M)
Borthwick, James H. (A)
Flinter, Clyde V. (A)
Fredericks, John E. (A)
Janitschke, E. O. (A)
White, Edwin Lee (A)

PHILIPPINE ISLANDS

Hall, Harry L. (A)
Lara, Albino (A)
Mason, D. P. (A)
Olivares, J. E. (A)
Rau, David S. (A)
Smith, Jesse H. (A)

CANADA

ALBERTA

Laurie, William L. (A)

BRITISH COLUMBIA

Hawkins, Leslie S. (M)
Hilton, F. B. C. (A)
Sawford, Frank Jr. (A)
Filtress, A. W. (A)
Deacon, Alan I. (A)

CANADA (Continued)

British Columbia (Continued)

Edwards, Ernest P. (A)
Irving, Basil (A)
North, J. Terry Jr. (A)

MANITOBA

Edhop, E. F. (A)
Salton, Lynn V. (M)
Stevenson, Harry E. (A)

NEW BRUNSWICK

Mason, Arthur Wellesley (A)
Vaughn, Frank P. (A)

NORTHWEST TERRITORY

Underwood, Clifford (A)
Cluff, H. D. (A)

NOVA SCOTIA

Rose, William R. (A)
Smith, Frederick A. (A)
Starr, C. H. (A)
Sutherland, Alexander (A)
Wood, William (A)
Wright, F. G. (M)

ONTARIO

Ainsworth, A. L. (A)
Andrae, Robert T. (A)
Angus, William M. (A)
Balzdon, Warren E. (A)
Barber, Walter G. (A)
Brown, Harry S. (A)
Brown, Wilford H. (A)
Burke, Joseph L. (A)
Choat, William F. (A)
Cooper, Ashton B. (A)
Edwards, C. P. (F)
Fletcher, C. I. (A)
Fowler, Walter D. (A)
Fox, Charles H. (A)
Fraser-Lee, Alexander C. (A)
Gaby, Fred'k. A. (A)
Galbraith, R. A. H. (A)
Geldert, G. M. (A)
Gibbons, Samuel (A)
Gowan, Frank S. (A)
Gowan, Hubert S. (A)
Hackbusch, Ralph A. (A)
Henderson, J. P. (M)
Hepburn, Dugald (M)
Hevey, William J. (A)
Hodson, Martin (A)
Holt, Alan R. (A)
Hughes, Peter (A)
Hutton, George (A)
Jones, Stephen M. (A)
Kentes, George A. (A)
Kenny, Thomas W. (A)
Kimbell, Richard C. (A)
Langford, C. H. (A)
Lee, S. A. (A)
Lindsay, Arthur W. (A)
Lowry, Charles A. (A)
Mackeen, R. T. (A)
Marconi, F. W. Jr. (A)
McFarquhar, C. Charles (A)
McLachlan, Walter R. (A)
McMurphy, Cyril A. W. (A)
McWatters, Robert S. (A)
Meredith, C. C. (A)
Mills, Thomas A. (A)
Nash, James C. (A)

Nelles, D. H. (A)
Newman, Canon E. (A)
Northover, Harold W. (A)
Oxley, Alan B. (A)
Paisley, Stewart R. (A)
Patience, A. Menbourne (A)
Pipe, Gordon E. (A)
Pounsett, Frank H. R. (A)
Reyca, John De W. (M)
Richardson, Charles L. (M)
Robertson, Joseph J. C. (A)
Rose, Sidney (A)
Rosebrugh, Thomas R. (A)
Ruse, G. Arthur (A)
Rush, W. A. (F)
Russell, A. H. K. (A)
Scott, Arthur L. (A)
Smith, Arthur (A)
Smith, Fred G. (A)
Soucy, Chester I. (A)
Southam, George W. (A)
Starr, Alfred R. (A)
Steel, W. Arthur (M)
Taber, Harold E. (A)
Thompson, Milton L. (A)
Thomson, J. M. (A)
Van Alstyne, Theo. C. (A)
Wallace, J. M. (A)
Walsh, H. E. (A)
Woolner, Elmore G. (A)
Young, Gordon N. (A)

QUEBEC

Aetion, Edward H. (A)
Barrow, Frederick A. (A)
Blala, Alphy L. (A)
Brophy, R. M. (A)
Cann, John O. G. (F)
Conroy, Joseph M. (A)
Cooper, Samuel J. (A)
Curtis, Otto E. (A)
Fenwick, James R. (A)
Hodgson, Edward (A)
Leonard, P. A. (A)
Mather, Gilbert (A)
Mauro, Oswald G. (M)
McWilliam, E. A. (A)
Mead, Ernest J. (A)
Morse, Arthur H. (M)
Mott, Harold E. (A)
Mullin, James Walter (M)
Payne, L. Stanley (M)
Ratchford, William J. (A)
Robb, Robert J. (A)
Runciman, Arthur S. (A)
Short, H. M. (M)
Spencer L. (A)
Thompson, John H. (A)
Vennes, H. J. (M)
Wilson, Clifford A. (A)
Zahn, Gilbert L. (A)

SASKATCHEWAN

Dyson, H. (A)
Hooper, A. W. (A)
Williams, Guy M. (A)

BRITISH ISLES

ENGLAND

Addey, Frederick (F)
Albiston, W. A. (A)

BRITISH ISLES (Continued)

England (Continued)

Allan, J. T. (A)
Allen, C. G. (A)
Almonson, C. F. (A)
Andrews, W. A. (M)
Appleton, Edward V. (A)
Appleton, William A. (M)
Ashwin, C. W. H. (A)
Atkinson, C. C. (M)
Atkinson, C. T. (A)
Axten, Bernard J. (A)
Bainbridge-Bell, L. H. (A)
Baird, Frederick (A)
Baker, Thomas T.
Bamner, E. H. W. (A)
Barber, William E. (M)
Barnett, M. A. F. (A)
Barrell, Walter S. (A)
Barrington, R. N. (M)
Bates, Cyril R. (A)
Bever, A. J. M. (A)
Blyon, Basil (M)
Bowen, Harry L. (A)
Boyce, F. A. (A)
Boyle, Charles W. (M)
Brady, Edward (A)
Brandt, W. A. (A)
Brigden, William E. G. (A)
Bromley, William H. (A)
Brown, Stanley (A)
Brown, Walter J. (M)
Bulgin, Arthur F. (M)
Bull, W. J. H. (A)
Burchill, M. (A)
Burnham, W. W. (F)
Burrowes, F. E. (A)
Carpenter, Rupert A. H. (M)
Carter, William (A)
Castagnoli, Gordon (A)
Cuswell, Herbert (M)
Cutt, James E. (M)
Chandler, Charles K. (A)
Clapp, Benjamin T. (A)
Clarke, George E. (A)
Cohen, Isaac J. (A)
Cooper, J. A. (A)
Cooper, J. A. J. (A)
Cooper, Walter F. (M)
Coursey, Philip R. (A)
Courtenay-Price, George (A)
Crampton, W. J. (M)
Crawford, C. G. (A)
Curtis, F. C. (A)
Dack, Allan, J. S. (A)
Dack, J. H. A. (A)
Davis, W. H. F. (A)
Dawson, A. W. (A)
De Burgh, D. H. (M)
De Wardt, Robert G. (M)
Ditcham, Wm. T. (M)
Diver, F. G. (A)
Dowsett, H. M. (M)
Duke, William H. (A)
Eckersley, P. P. (F)
Edes, Noel H. (A)
Edwards, Norman F. (M)
Elwell, Cyril F. (F)
Erskine-Murray, James (F)

Evans, Y. W. P. (M)
Everest, A. R. (A)
Faulkner, Harry (M)
Featherstone, W. A. E. (A)
Field, Eustace R. W. (A)
Field, H. T. F. (A)
Flagg, L. B. (A)
Fletcher, C. N. (A)
Flintham, Herbert (A)
Foord, H. D. G. (M)
Frost, C. C. J. (M)
Fuller, William (A)
Gambrell, Horace W. (A)
Gee, H. T. P. (A)
George, Philip H. F. (A)
Gill, A. J. (M)
Glendenning, William (A)
Glossop, Arthur C. (A)
Gray, Richard B. (A)
Green, Ernest (A)
Hall, Alex J. (A)
Hall, Alfred W. (A)
Hall, Norman (A)
Hambling, A. W. (A)
Hampson, Charles B. (A)
Hansford, R. V. (M)
Harris, A. L. (M)
Harris, Percy W. (M)
Harvey, Herbert J. (A)
Healey, Oliver (A)
Herd, James F. (M)
Hibberd, Reginald J. (M)
Hines, C. C. A. (A)
Hinks, G. D. (A)
Hinks, H. J. (A)
Hinton, Norman P. (M)
Holbeach, William M. (A)
Hotine, Leslie (M)
Howse, H. A. G. (A)
Hughes, Lionel J. (A)
Ingham, Frank (A)
Isen, W. (A)
Jarrett, Cyril E. (A)
Jones, A. B. (A)
Jones, Clifford (A)
Jones, F. E. B. (A)
Joseph J. (M)
Keir, John (M)
Kelsey, Donald C. (A)
King, Harrie J. (M)
Kirke, H. L. (M)
Klein, R. H. (M)
Knight, Arthur W. (A)
Ladner, A. W. (A)
Lamb, William H. (A)
Lance, Thomas M. C. (A)
Lane, Reginald C. (A)
Lassman, H. H. (A)
Lee, A. G. (M)
Lequeux, William (M)
Litchfield, Gordon A. (A)
Littledale, H. A. F. (A)
Lloyd, John A. (A)
Lovett, Alfred M. (A)
Lyle, Herbert B. (A)
Maddocks, W. Arthur (A)
Mansell, L. H. (M)
Mansfield, Laurence (A)
Marconi, G. (F)
Marsh, J. Rowland (A)

BRITISH ISLES (Continued)

England (Continued)

Mills, William F. (A)
 McDonald, George F. (A)
 McLachlan, A. E. (A)
 McLean, Francis C. (A)
 McLeod, Francis C. (A)
 McMichael, Leslie (F)
 Minter, Robert W. (A)
 Mirk, D. Blair (A)
 Mockford, F. S. (A)
 Morris, R. (A)
 Nancarrow, F. E. (M)
 Nelson, James (M)
 Nottage, William H. (A)
 Oates, Herbert L. (A)
 O'Shaughnessy, J. J. F. (M)
 Owner, John S. (A)
 Parker, A. Raymond (A)
 Parkin, Thomas D. (A)
 Payne, Eric A. (A)
 Pearce, R. A. (A)
 Pearson, Laurence H. (A)
 Pecorini, Robert R. (M)
 Petersen, Thomas George (A)
 Phillips, Charles F. (M)
 Picken, William J. (A)
 Pinnock, L. W. J. (A)
 Pocock, Hugh S. (M)
 Pollitt, F. H. (A)
 Pound, E. J. (A)
 Purdy, B. N. (A)
 Rae, William T. (A)
 Randall, William J. (A)
 Rattee, Stanley G. (M)
 Rees, David (A)
 Pevner, John H. (M)
 Rickard, C. E. (M)
 Riddiough, John W. (A)
 Ripley, Henry P. (A)
 Robb, William I. (A)
 Roberts, Albert E. (A)
 Robinson, F. H. (A)
 Rodgers, Charles (A)
 Rogers, Arthur H. E. (M)
 Rolfs, Collin (A)
 Saltmarsh, Beatrice (A)
 Schofield, J. R. (A)
 Shaughnessy, E. H. (M)
 Shore, Ann (A)
 Shinkfield, L. (A)
 Simmonds, E. J. (M)
 Simpson, A. V. (M)
 Smart, H. S. (A)
 Smith, James H. (A)
 Smith, Sidney B. (M)
 Stewart, Harold W. (A)
 Strong, Charles E. (A)
 Sutton, W. F. P. (A)
 Swinton, A. A. C. (M)
 Taggart, John Scott (A)
 Tanton, Captain J. H. (A)
 Taylor, Alfred O. (A)
 Thomas, Elinor (A)
 Thompson, Alfred E. (M)
 Thornton, J. T. (A)
 Tingey, Robert (M)
 Tomlinson, Frank (A)
 Townsend, F. T. G. (M)

Townsend, K. D. F. (A)
 Trippier, Francis J. (A)
 Tunbridge, E. A. (A)
 Turberville-Crewe, W. J. (M)
 Turle, Edgar H. (M)
 Turner, L. B. (A)
 Turner, Philip K. (M)
 Ulrich, E. H. (M)
 Vernon, Basil H. (A)
 Walne, Norman (A)
 Walker, Harold S. (A)
 Wallace, Alex T. (A)
 Walmsley, Thomas (M)
 Watson, George H. (A)
 Webb, Reginald J. (A)
 White, Herbert G. (A)
 Wicks, Frank W. (A)
 Wicks, R. P. (A)
 Wilkinson, Henry E. (M)
 Williams, P. W. (A)
 Williams, Cecil G. (A)
 Wilson, Norman J. (A)
 Wood, C. E. (A)
 Wood, Robert H. (M)
 Woodward, P. J. (M)
 Wright, Sidney R. (A)
 Wroughton, Thomas H. (A)

IRELAND

Baseche, J. B. (A)
 Burne, William R. (A)
 Ferguson, John D. (M)
 Kitchen, James P. (A)
 McVeigh, James P. (A)

SCOTLAND

Allan, Ernest J. (A)
 Bonong, Edward (A)
 Dinsdale, Alfred (A)
 Dunbar, James (A)
 Knowles, J. G. (A)

NORTH WALES

Evans, T. (A)
 Redshaw, C. C. (A)
 Whale, Gordon S. (A)

AFRICA

BELGIAN CONGO

Seaviour, Cecil H. (A)

BRITISH NORTH BORNEO

Wade, C. F. Newton (M)

EGYPT

Alway, Corp. Edwin J. (A)
 Baroudi, Kamel S. (A)
 Hassan, Bahig (A)
 Watterson, H. E. (F)

KENYA COLONY

Bell, George F. (A)

SOUTH AFRICA

Barnett, Eric E. (A)
 Bennett, W. E. D. (A)
 Barthwick, R. J. (A)
 Chenik, Aaron (A)
 Cumming, N. D. (A)
 Dunton, Ernest W. (M)
 Goodman, Joseph M. (M)
 Jacobs, Alwyn J. (A)
 Kos, Cent. S. F. (M)
 Marks, E. (M)
 Molr, James S. (A)

AFRICA (Continued)

South Africa (Continued)

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

SUDAN

Williams, R. T. (M)

ASIA

BURMA

Mitchell, J. Weir (A)

CHINA

Barnes, E. J. (A)
 Chang, Ting-Chin (M)
 Chen, Shujen (A)
 Chu, K. T. (A)
 Dockray, Stephen T. (M)
 Eng, David J. (A)
 Fong, George T. W. (A)
 Gee, Walter Charles (A)
 Kanaya, O. (A)
 Kinase, Atsushi (M)
 Kinase, M. (M)
 Lee, S. M. (A)
 Maeda, M. (A)
 Monk, Walter W. (A)
 Nee, Sangta (A)
 Oboukhoff, N. (M)
 Rolland, Thomas B. (A)
 Saltow, K. (A)
 Takahashi S. (A)
 Wilford, George M. (A)
 Young, Lihwei (A)
 FEDERATED MALAY STATES
 Carson, Andrew L. (A)
 Peck, G. T. (A)
 Wilkinson, Bernard (A)

INDIA

Chapman, T. J. (A)
 Harper, Edgar (M)
 Hawes, R. Nesbitt (M)
 Kantabel, S. R. (A)
 Lea, George (A)
 Sellick, A. M. (A)
 Thompson, Herbert M. (A)

IRAQ

Adams, Frank S. (A)

JAPAN

Akasaka, Toshi (A)
 Anazawa, Chuhei (A)
 Arakawa, Daitaro (A)
 Hashimoto, S. (A)
 Horiguchi, Jiro (A)
 Innada, Sannosuke (M)
 Ishikawa, S. (A)
 Kawahara, Takewo (A)
 Kuramochi, Shaju (A)
 Kusonose, Y. (A)
 Marumo, Noboru (A)
 Marumoto, Kenji (A)
 Mitsusishi, Hyde K. (A)
 Moriwaiki, Katsumi (A)
 Nakagami, I. (A)
 Nakamura, H. (A)
 Namba, Y. (A)
 Niwa, Y. (A)
 Sasaki, T. (A)
 Sayeki, Mitsuru (F)

Takebayashi, K. (A)
 Terhata, Matsutaro (A)
 Tsushima, Yonekichi (A)
 Wakamatsu, Naoto (A)
 Watanabe, Hajime (A)
 Yagi, Hidetsugu (F)
 Yokoyama, Eitaro (M)
 Yoshida, Y. (A)
 Yoshiro, Kuroda (A)

BERMUDA

Cookson, Walter (M)
 Rutherford, Charles R. B. (A)

CENTRAL AMERICA

BRITISH HONDURAS

Bourchier, Leonard H. (M)

COSTA RICA

Carranza, J. J. (M)

HAITI

Mizell, M. H. (A)

CUBA

Bullard, William R. (A)
 Facey, E. R. (A)
 Lara, Vega Jose (A)

MEXICO

Cota, Pedro N. (A)
 Cross, Harry (A)
 Eserich, James P. (A)
 Morrison, L. H. (A)
 Ramirez, Fernando J. (M)
 Rangel, Gulebaldo (A)
 Sardaneta, Raymundo (A)

EUROPE

BELGIUM

Philippson, Maurice (M)
 Wise, Samuel J. (A)

CZECHOSLOVAKIA

Svoboda, Jaromir (M)

DENMARK

Christensen, Jens P. (A)
 Heegaard, Frederick D. (A)
 Hellstrom, G. (A)
 Jensen, N. P. R. (A)
 Nyholm, Christian (A)
 Pedersen, Martin P. (A)
 Pedersen, Peder O. (F)
 Poulsen, Valdemar (F)
 Rybner, J. C. F. (A)
 Schow, Carl (A)

FRANCE

Behm, Ludwig F. (A)
 Bethenod, Jos. P. J. (A)
 Denkin, Gerald (A)
 De Bellesclze, Henri (M)
 De Bozas, Guy Du Bourg (A)
 Deloralne, Edmond M. (M)
 Ferrie, General (F)
 Levy, Lucien (M)
 Oliveira, Adalberto (M)

GERMANY

Barkhausen, G. H. (A)

MEMBERSHIP (Geographically)

EUROPE (Continued)

Germany (Continued)

Ghosh, S. C. (A)
 Hamm, Arthur (A)
 Hausdorff, Max M. (A)
 Hofmann, A. Clemens (A)
 Meissner, Alexander (F)
 Seibt, George (M)
 Zenneck, Jonathan (F)

HOLLAND

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

POLAND

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

PORTUGAL

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

SPAIN

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

SWEDEN

Franssion, F. (A)
 Lemolne, A. S. (A)
 Sterky, H. K. A. (A)
 Velander, Edy (A)

SWITZERLAND

Anselmi, S. C. (A)

U. S. S. R. (RUSSIA)

Bashenoff, Valerian T. (M)
 Karourine, Serge N. (A)

OCEANIA

DUTCH EAST INDIES

Verdam, N. H. (M)

FRIENDLY ISLANDS

Land, John R. (M)

NEW ZEALAND

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

AUSTRALIA

Bain, John L. (M)
 Bardin, William F. (A)
 Fisk, Ernest T. (F)
 Hayman, W. G. (A)
 Hull, Ross A. (A)
 Malone, James J. (M)
 McDonald, Arthur S. (M)
 Neve, Gordon H. (A)
 Sutherland, G. B. (A)
 Sweeney, Walter M. (M)
 Thompson, Cecil (A)

PORTO RICO

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

SOUTH AMERICA

ARGENTINA

Daunine, Juan Pablo (A)
 Hayes, George W. (A)
 Raven-Hart, R. J. M. (M)

BRAZIL

Barreto, M. del. (F)
 Lacombe, Carlos G. (A)
 Lush, W. G. (A)

BRITISH GUIANA

Jarman, Alick D. (A)

CHILE

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

PERU

Kennedy, H. Spencer (A)

WEST INDIES

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