

*Laurens A. Taylor
G.E. Co. DeLustig*

**The
Institute of Radio
Engineers**

(INCORPORATED)

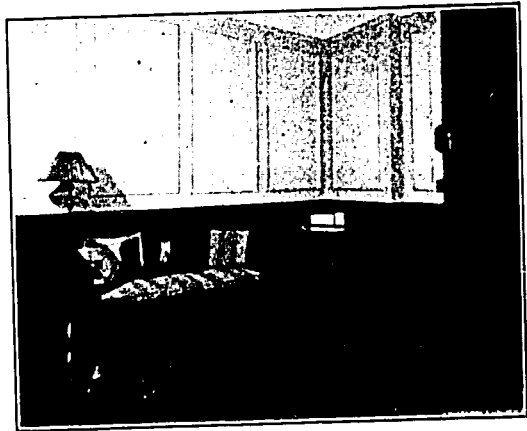
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Organized 1912

**YEAR BOOK
1928**



Price 75 cents per copy



VIEWS OF OFFICES OF THE INSTITUTE

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bols and Abbreviations.....A. E. KENNELLY

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} (Alternate)

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GENERAL INFORMATION

Institute History

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

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

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

Prominent in the early work of the Society of Wireless Telegraph Engineers were John Stone Stone, Lee DeForest, 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 Shoemaker and Eugene Thurston. The consolidation of these two societies and the initial work of organizing the Institute of Radio Engineers were done by J. V. L. Hogan, A. N. Goldsmith, and R. H. Marriott.

Aims of the Institute

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

The membership of the Institute consists of those persons who are qualified for any of its several grades of membership, either through their interest in radio communication, or by practice of some phase of radio engineering as a profession. The eligibility of an applicant to membership in 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 to discuss 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 constitutes a continually growing store of information on all phases of radio engineering. Since the first issue in 1913, 415 papers have been printed. The PROCEEDINGS is 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 in 1928. These Standardization Reports have become an important reference authority on terminology and symbols in radio practice.

This Year Book is the fifth one the Institute has published; the first appearing in 1914, the second in 1916, the third in 1926, and the fourth in 1927.

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 in 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
		L. W. Austin.....	1927

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
		A. Hoyt Taylor.....	1927

All members of the Institute are eligible as candidates for these highly valued prizes. Each year's developments are carefully reviewed and examined by the Committees appointed, and by the Board of Direction, the awards being made by vote of the Board in the case of the Institute Medal of Honor, and by vote of the committee appointed by the Board in the case of the Liebmann Memorial Prize.

The names of the engineers who have already been granted awards clearly show that the younger men as well as the pioneers, and the design, development and factory engineers as well as research engineers, have been given due recognition in the making of awards.

Grades of and Qualifications for 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 12. 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

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	\$4	\$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.

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.

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.



Members of the Institute of Radio Engineers are authorized to indicate their grade of membership in the Institute in the following manner:

Fellow I. R. E.
Member I. R. E.
Associate I. R. E.

Certificates of Membership

Upon application to the Secretary's office membership cards are sent to all members each year, and diplomas are supplied to Members and Fellows. 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, 33 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:

ATLANTA—Walter Van Nostrand, Chairman; George Llewellyn, Secretary, Room 524, Post Office Bldg., Atlanta, Ga.

BOSTON—George W. Pierce, Chairman; Melville Eastham, Secretary, 30 State St., Cambridge, Mass.

BUFFALO-NIAGARA—L. C. F. Horle, Chairman; C. J. Porter, Secretary, 141 Milton Street, Buffalo, New York.

CANADIAN—A. M. Patience, Chairman; C. C. Meredith, Secretary, 110 Church St., Toronto, Ontario.

CHICAGO—John H. Miller, Chairman; H. E. Kranz, Secretary, 5440 Armitage Ave., Chicago, Ill.

CLEVELAND—John R. Martin, Chairman; B. W. David, Secretary, 3223 Ormond Road, Cleveland Heights, Ohio.

CONNECTICUT VALLEY—W. G. Cady, Chairman; George W. Pettingill, Jr., Secretary, P.O. Box 551, Ludlow, Mass.

DETROIT—Earle D. Glatzel, Chairman; W. R. Hoffman, Secretary, 615 West Lafayette Blvd., Detroit, Mich.

LOS ANGELES—Don C. Wallace, Chairman; W. W. Lindsay, Jr., Secretary, 927 La Jolla Ave., Hollywood, Cal.

PHILADELPHIA—J. C. Van Horn, Chairman; John C. Mevius, Secretary, 1533 Pine St., Philadelphia, Pa.

PITTSBURGH—W. K. Thomas, Chairman; A. J. Buzzard, Secretary, 911 Penn Ave., Pittsburgh, Pa.

ROCHESTER—Harvey Klumb, Chairman; F. W. Reynolds, Secretary, 1060 University Ave., Rochester, N. Y.

SAN FRANCISCO—L. F. FULLER, Chairman; D. B. McGown, Secretary, 435 Pacific Bldg., San Francisco, Cal.

SEATTLE—W. A. Kleist, Chairman; Oliver C. Smith, Secretary, 820 Dexter-Horton Bldg., Seattle, Wash.

WASHINGTON—F. P. Guthrie, Chairman; A. Crossley, Secretary, Naval Research Laboratory, Bellevue, 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 35 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.

e. 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. 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 cooperation 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 Chairmen of Technical Committees:

ALFRED N. GOLDSMITH, *Chairman*
C. H. SHARP, *Vice-Chairman*
L. E. WHITTEMORE, *Acting Secretary*

Chairmen of Technical Committees:

Transmitting and Receiving Sets and Installations.....	A. F. VAN DYCK
Component Parts and Wiring.....	L. G. PACENT
Vacuum Tubes.....	C. B. JOLLIFFE
Electro-Acoustic Devices.....	LLOYD ESPENSCHIED
Power Supply and Outside Plant.....	L. W. CHUBB

REPORT OF THE BOARD OF DIRECTION INSTITUTE OF RADIO ENGINEERS

1927

TO THE MEMBERSHIP:

The following is a brief summary of the principal activities of the Institute during the year:

Directors' Meetings. The Board of Direction held ten regular meetings during the year. The average attendance has been eight members, and the average time devoted to each meeting has been two and one-half hours. The Board has considered and acted upon all of the major problems confronting the management and operation of the Institute. The business transacted at these meetings has been duly recorded in the Minutes thereof. Matters of general interest to the membership have been published each month in the Institute Activities section of the PROCEEDINGS.

Visits of the President. President Bown made five visits to Sections of the Institute and delivered technical papers at each. The Sections visited were Philadelphia, Connecticut Valley, Buffalo-Niagara, Rochester, and Cleveland.

Meetings. Ten regular New York meetings of the Institute were held in the Engineering Societies Building, the average attendance being slightly over three hundred and twenty-five. In addition, two special meetings were held jointly with the American Institute of Electrical Engineers. During the year there has been a marked increase in attendance at all meetings, it being necessary on several occasions to secure larger rooms. The discussions following papers have been much more numerous.

Annual Convention. The Second Annual Convention was held in New York City, January 10th to 12th, 1927. Five technical sessions were held. Eight trips of inspection to various radio organizations in and around New York were largely attended by the delegates present. The first Conference of Section Chairmen was held at the convention. This Conference was largely attended and is to be a regular feature of future conventions. On the last evening of the Convention a banquet was held in the Waldorf-Astoria. Over three hundred members and their guests attended the banquet. The total registration for the convention was over four hundred.

COMMITTEES

Without the continued assistance of its several Committees, the Institute could not carry on its activities. Through the co-ordination of organized effort such as is afforded by all of the Committees, the Institute's affairs have been handled since the beginning. The increased activity of all Committees reflects itself upon the general increase in all Institute undertakings. All of the Committees this year have contributed to the successful inception of many new innovations in the Institute's operation.

Meetings and Papers. The work of the Meetings and Papers Committee, R. H. Marriott, Chairman, consists mainly in arranging for papers for publication in the PROCEEDINGS. This Committee has held monthly meetings throughout the year. The Committee also arranges for speakers and papers at all regular meetings of the Institute. The high technical standard of all papers published in the PROCEEDINGS and presented at Institute meetings is due to the careful selection of the Meetings and Papers Committee.

Committee on Admissions. The Committee on Admissions, Vice-President Frank Conrad, Chairman, has held ten meetings during the year. The Committee has acted upon one hundred seventy-one applications for transfer or election to the higher grades of membership in the Institute. The recommendations of the Committee have been as follows:

Transfer to the Fellow grade.....	6
Election to the Fellow grade.....	1
Transfer to the Member grade.....	39
Election to the Member grade.....	48
	—
	94
Unfavorably Acted Upon	
Transfer to the Fellow grade.....	4
Transfer to the Member grade.....	27
Election to the Member grade.....	46
	—
	91

The Committee on Admissions through its careful and detailed consideration of all applications for transfer or election to the higher grades of membership and its recommendations to the Board of Direction has been responsible for the maintenance of the high standard of membership.

Committee on Publicity. The Committee on Publicity, W. G. H. Finch, Chairman, has secured desirable publicity on all meetings of the Institute in the leading metropolitan newspapers and in various radio magazines. Releases covering each meeting of the Institute are now being mailed monthly to over two hundred newspapers east of the Mississippi River. The 1928 Convention publicity releases are being sent to twenty-two hundred papers. Publicity as secured by the Committee is very helpful toward securing satisfactory attendance at meetings of the Institute. It also stimulates the work of the Committee on Membership in securing applications for election to the various grades of membership in the Institute.

Committee on Standardization. All four of the subcommittees of the Committee on Standardization, Messrs. R. H. Manson, L. A. Hazeltine, W. E. Holland, and H. M. Turner, Chairmen,

have held regular meetings and have prepared much material for submission to the main Committee in 1928. Three of the subcommittees have submitted preliminary drafts of reports of their respective committees. These drafts have been printed and circulated among persons interested in standardization. It is expected that a new Standardization report will be printed and issued to the membership in 1928.

Committee on Membership. The Committee on Membership, H. F. Dart, Chairman, has held nine meetings during the year. Various plans for increasing the membership in the Institute have been inaugurated. During the year applications have been secured from one thousand four hundred and eighty non-members for election to the various grades of membership. The Committee has prepared a booklet outlining the aims and activities of the Institute to be circulated to non-members.

Committee on Sections. The Committee on Sections, D. H. Gage, Chairman, has held eight meetings with an average attendance of four members. During the year new sections have been organized in Atlanta, Buffalo, Cleveland, and Detroit. Organization work in five other cities in which the requisite amount of interest seems evident has proceeded to a point where Sections will be organized in the near future. The Committee has investigated the applications for the formation of all new Sections and has made appropriate recommendations to the Board of Direction. The Committee has prepared much information relative to Section organization and management which has been useful to persons interested in Section organization.

The Sections of the Institute have been very active this year. The table below indicates the increasing interest in Section meetings. Reorganization of the San Francisco Section has been completed. Regular meetings will be resumed in January. Additional aid has been afforded all Sections both financially and in the attention to many details through the office of the Institute. Over twelve hundred dollars have been placed into Section operation by the Institute during 1927.

Section	Number of Meetings-1926	Number of Meetings-1927	Av. 1927 Attendance
Atlanta	—	6	22
Boston	—	1	75
Buffalo-Niagara	—	7	60
Canadian	7	9	73
Chicago	5	5	75
Cleveland	—	6	62
Connecticut Valley	4	5	55
Detroit	—	10	32
Los Angeles	6	6	41
Philadelphia	5	10	75
Rochester	6	6	65
San Francisco	3	1	—
Seattle	7	8	35
Washington (D.C.)	7	6	37

Meetings and Papers. The work of the Meetings and Papers Committee, R. H. Marriott, Chairman, consists mainly in arranging for papers for publication in the PROCEEDINGS. This Committee has held monthly meetings throughout the year. The Committee also arranges for speakers and papers at all regular meetings of the Institute. The high technical standard of all papers published in the PROCEEDINGS and presented at Institute meetings is due to the careful selection of the Meetings and Papers Committee.

Committee on Admissions. The Committee on Admissions, Vice-President Frank Conrad, Chairman, has held ten meetings during the year. The Committee has acted upon one hundred seventy-one applications for transfer or election to the higher grades of membership in the Institute. The recommendations of the Committee have been as follows:

Transfer to the Fellow grade.....	6
Election to the Fellow grade.....	1
Transfer to the Member grade.....	39
Election to the Member grade.....	48
	—
	94
Unfavorably Acted Upon	
Transfer to the Fellow grade.....	4
Transfer to the Member grade.....	27
Election to the Member grade.....	46
	—
	91

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Canadian	7	9	73
Chicago	5	5	75
Cleveland	—	6	62
Connecticut Valley	4	5	55
Detroit	—	10	32
Los Angeles	6	6	41
Philadelphia	5	10	75
Rochester	6	6	65
San Francisco	3	1	—
Seattle	7	8	35
Washington (D.C.)	7	6	37

The Institute through the officers of the Sections has been kept fully posted as to the activities of the Sections and has aided them in many fashions. Reports of the minutes of Section meetings are forwarded to Institute Headquarters after each meeting of the Sections.

Membership. The increase in membership, from a paid figure of 2,800 at the beginning of the year to 4,200 on December 1st, has been a steady one throughout the months of the year. The net increase during the year has been over forty-four per cent. There appears below a list of the paid membership by countries, as of December 1st, 1927. Approximately twenty per cent of the members reside outside the continental limits of the United States.

Continental United States.....	3,519
Canal Zone.....	5
Phillippine Islands.....	16
Canada.....	184
Alaska.....	3
Australia.....	14
Belgium.....	2
Bermuda.....	4
China.....	16
Cuba.....	3
Denmark.....	9
Egypt.....	2
England.....	276
France.....	9
Germany.....	10
Holland.....	6
Hungary.....	1
Ireland.....	5
Italy.....	1
Japan.....	33
Mexico.....	12
New Zealand.....	15
North Wales.....	1
Poland.....	2
Porto Rico.....	3
Portugal.....	2
Scotland.....	5
Spain.....	9
South America.....	10
South Africa.....	16
Sweden.....	4
Switzerland.....	1
British Honduras.....	1
Haiti.....	1
Russia.....	3
Dutch East Indies.....	1
Czechoslovakia.....	2
Friendly Islands.....	1
Straits Settlements.....	2
Falkland Islands.....	1
TOTAL	4,200

Institute Prizes. During the year two prizes have been awarded. The first, the Institute Medal of Honor, was awarded to Dr. L. W. Austin for his pioneer work in the quantitative measurement and correlation of factors involved in radio transmission. The 1927 award of the Morris Liebmann Memorial Prize, consisting of the sum of five hundred dollars, was made to Commander A. Hoyt Taylor for his work in connection with his study of transmission phenomena.

Publications. During the year fifty-six papers and twenty-one discussions were printed in the PROCEEDINGS. A total of one thousand and twenty-seven editorial pages were published, representing an increase of over thirty-four per cent over last year. Since the first of the year the PROCEEDINGS has been published monthly.

Five thousand copies of a one hundred and fifty two page Year Book, containing General Information concerning the Institute, the Constitution and By-Laws, a complete catalog of the membership arranged both alphabetically and geographically, and much other information of interest to the membership, were printed and sent to the membership in April.

A Fourteen Year Index to all papers appearing in the PROCEEDINGS from 1913 through 1926 was printed and sent to the members.

Three hundred copies of the Preliminary Drafts of three of the Subcommittees of the Standardization Committee were printed and circulated.

During the year much material has been added to the Institute Activities Section of the PROCEEDINGS in an effort to make this Section of general interest to all members.

Advertising. Much of the revenue for operating the Institute comes from the sale of the advertising pages in the PROCEEDINGS. During the year the average number of pages printed per issue was twenty-six. This represents an increase of two pages over last year, the pages being printed only every other month during 1926, however.

JOHN M. CLAYTON,
Assistant Secretary

REPORT OF BOARD OF DIRECTION

THE INSTITUTE OF RADIO ENGINEERS, INC.

COMPARATIVE BALANCE SHEET
December 31, 1927 and 1926

ASSETS		Dec. 31, 1927	Dec. 31, 1926	Increase Decrease	LIABILITIES AND SURPLUS	Dec. 31, 1927	Dec. 31, 1926	Increase Decrease
CASH					ACCOUNTS PAYABLE	\$3,017.83	\$ 117.12	\$2,898.71
On Deposit—Corn Exchange Bank					ACCUMULATED SALARIES PAYABLE	207.00		207.00
On Deposit—National State Bank, Newark					SUSPENSE	22.52		22.52
On Deposit—Savings Account—Nat'l State Bank, Newark					DUES, ETC., PAID IN ADVANCE			
Secretary's Imprest Fund—Corn Exchange Bank					Junior	23.00	8.16	14.84
Secretary's Imprest Fund—Currency					Associates	479.29	245.40	232.83
					Members	81.15	59.10	22.06
					Fellows	45.00	25.00	20.00
					Subscriptions to Proceedings	2,053.26	970.51	1,082.75
TOTAL CASH		15,813.13	16,405.83	592.70	TOTAL LIABILITIES	6,527.45	1,425.44	5,102.01
ACCOUNTS RECEIVABLE					MORRIS LIEBMAN MEMORIAL FUND			
Juniors		170.50	56.00	64.50	Principal	10,000.00	10,000.00	
Associates		2,316.45	668.00	1,648.45	Unexpended Income	77.87	77.87	
Members		231.21	35.00	199.21	TOTAL MORRIS LIEBMAN MEMORIAL FUND	10,077.87	10,077.87	
Fellows		35.00		35.00	SURPLUS			
Transfer Fees		22.00		22.00	Balance—January 1st	37,423.95	27,390.72	10,033.23
Advertising		1,106.67	1,070.84	35.83	Operating Profit for Year (See Exhibit "B")	10,892.93	10,033.23	859.70
TOTAL ACCOUNTS RECEIVABLE		3,834.83	1,829.84	2,004.99	Adjustment of Inventory for Prior Years	7,400.54		7,400.54
DEPOSIT FOR RENT		90.00	90.00		SURPLUS DECEMBER 31st	40,916.34	37,423.95	3,492.39
INVENTORIES								
Proceedings on Hand		3,441.02	10,567.44	7,126.42	TOTAL LIABILITIES AND SURPLUS	\$57,521.66	\$48,927.26	\$8,594.40
Paper Stock on Hand		3,321.27		3,321.27				
Binders on Hand		205.62		205.62				
INVESTMENTS		26,990.00	17,117.50	9,872.50				
FURNITURE AND FIXTURES		\$4,183.35		\$4,183.35				
Less—Reserve for Deprn.		1,212.60		1,212.60				
ACCRUED INTEREST ON INVESTMENTS		540.00	390.00	150.00				
PREPAID EXPENSES		65.04	54.36	10.68				
Unexpired Insurance Premiums		250.00	535.00	285.00				
Stationery Inventory								
TOTAL ASSETS		\$57,521.66	\$48,927.26	\$8,594.40				

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:

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

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

- 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.

- 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.

- 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 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 and 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 had 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 Member shall be promptly notified thereof by letter. The election shall be can-

celled 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 record 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 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 pro-

posed 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 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 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 calculated 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 1927

All papers published in the PROCEEDINGS prior to 1927 are listed in the Fourteen-Year Index, a copy of which may be obtained free of charge by any member upon application at the Institute office.

January

Piezo-Electric Crystal-Controlled Transmitters.—H. Crossley.
Simultaneous Production of a Fundamental and a Harmonic in a Tube Generator.—Hoy J. Walls.

Discussion on Reduction of Interference in Broadcast Reception (A. N. Goldsmith).—J. C. Van Horn.

An Automatic Fading Recorder.—T. A. Smith and G. Rodwin.

Behavior of Alkali Vapor Detector Tubes.—H. A. Brown and C. T. Knipp.

Discussion on A Method for Maximization in Circuit Calculations (Roberts).—A. C. Roos.

Influence of the Solar Eclipse.—E. C. Holtzappel.

February

Correlation of Radio Reception with Solar Activity and Terrestrial Magnetism.—G. W. Pickard.

Importance of Laboratory Measurements in the Design of Radio Receivers.—W. A. MacDonald.

A Theoretical and Experimental Investigation of Detection for Small Signals.—E. L. Channing and G. H. Browning.

Discussion on Long Distance Radio Receiving Measurements at the Bureau of Standards in 1925 (L. W. Austin).—K. Sreenivasan.

March

Vacuum-Tube Nomenclature.—E. L. Chaffee.

Influence on the Amplification of a Common Impedance in the Plate Circuit of Amplifiers.—J. E. Anderson.

Some Possibilities and Limitations in Common Frequency Broadcasting.—DeL. K. Martin, G. D. Gillett, I. S. Bemis.

The Insulation of a Guyed Mast.—H. P. Miller, Jr.

Discussion on Radiation Resistance of a Vertical Antenna (Levin and Young).—Stuart Ballantine.

Discussion on The Output Characteristics of Amplifier Tubes (Warner and Loughren).—D. F. Whiting and A. V. Loughren.

Discussion on Vacuum-Tube Nomenclature (Chaffee).—George R. Metcalfe.

April

Piezo-Electric Crystals at Radio Frequencies.—A. Meissner
Quantitative Measurements on Reception in Radio.—G. Anders.

The Frequency Checking Station at Mare Island.—G. T. Royden.

Discussion on The Output Characteristics of Amplifier Tubes (Warner and Loughren).—E. Green.

Discussion on Simplified S-L-F and S-L-W Design (O. C. Roos).—R. R. Batcher, O. C. Roos, and Paul M. Mueller.

Discussion on The Correlation of Radio Reception with Solar Activity and Terrestrial Magnetism (G. W. Pickard).—J. H. Dellinger.

Discussion on Importance of Laboratory Measurements in the Design of Radio Receivers (W. A. MacDonald).—H. D. Oakley, Norman Snyder, J. H. Dellinger, and Harold Wheeler.

Review of Current Literature (Propagation of Short Waves around the Earth).—E. Quäck).—Stuart Ballantine.

May

Loud Speaker Testing Methods.—I. Wolff and A. Ringel.

High Angle Radiation of Short Electric Waves.—S. Uda.

Notes on Radio Receiver Measurements.—T. A. Smith and G. Rodwin.

The Tuned-Grid Tuned-Plate Circuit Using Plate-Grid Capacity for Feed-Back.—J. B. Dow.

Selectivity of Tuned Radio Receiving Sets.—K. W. Jarvis.

Radio Phenomena Recorded by the University of Michigan Greenland Expedition, 1926.—P. C. Oscanyan, Jr.

Puncture Damage Through the Glass Walls of a Transmitting Vacuum Tube.—V. Kusunose.

Discussion on Field Distribution and Radiation Resistance of a Straight Vertical Unloaded Antenna Radiating at One of its Harmonics (S. A. Levin and C. J. Young).—O. C. Roos.

June

Short-Wave Commercial Long Distance Communication.—H. E. Hallborg, L. A. Briggs, and C. W. Hansell.

Some Practical Aspects of Short-Wave Operation at High Power.—H. E. Hallborg.

Maximization Methods for Functions of a Complex Variable.—W. van B. Roberts.

A Mathematical Study of Radio-Frequency Amplification.—Victor G. Smith.

Discussion on Vacuum-Tube Nomenclature (Chaffee).—M. W. Arps.

Discussion on Long Distance Receiving Measurements at the Bureau of Standards in 1925 (L. W. Austin).—Greenleaf W. Pickard.

July

Telephone Communication over Power Lines by High Frequency Currents.—C. A. Boddie.

Measurements of Radio Frequency Amplification.—Sylvan Harris.

August

A New Frequency Transformer or Frequency Changer.—Isaac Koga.

Audio Frequency Transformers.—John M. Thomson.

Notes on the Testing of Audio Frequency Amplifiers.—Edward T. Dickey.

Variations in High-Frequency Ground Wave Ranges.—A. H. Taylor.

A Suggestion of a Connection Between Radio Fading and Small Fluctuations in the Earth's Magnetic Field.—G. Breit.

Note on Piezo-Electric Generators with Small Back Action.—A. Hund.

Standard Frequency Dissemination.—M. S. Strock.

Formulas for the Calculation of the Capacity of Antennas.—Frederick W. Grover.

September

The Correlation of Radio Reception with Solar Activity and Terrestrial Magnetism. II.—Greenleaf W. Pickard.

The Testing of Audio-Frequency Transformer-Coupled Amplifiers.—H. Diamond and J. S. Webb.

Note on Detection by Grid Condenser and Leak.—W. van B. Roberts. The Torusolenoid.—Ross Gunn.

October

Long Wave Radio Measurements at the Bureau of Standards in 1926 With Some Comparisons of Solar Activity and Radio Phenomena.—L. W. Austin.

Radio Atmospheric Disturbances and Solar Activity.—L. W. Austin.

Two Contrasting Examples Wherein Radio Reception Was Affected by a Meteorological Condition.—E. H. Kincaid.

A Radio Inter-Communicating System for Railroad Train Service.—Henry C. Forbes.

November

On the Values and Effects of Stray Capacities in Resistance-Coupled Amplifiers.—Manfred von Ardenne.

Mounting Quartz Oscillator Crystals.—R. C. Hitchcock.

The Short Wave Limit of Vacuum Tube Oscillators.—C. R. Englund.

Directional Radiation with Horizontal Antennas.—A. Meissner.

Making Normal Coordinates Coincide with the Meshes of an Electrical Network.—E. A. Guillemin.

Voltage Detection Coefficient.—E. L. Chaffee.

Radio Vision.—C. Francis Jenkins.

December

Atmospherics at Watheroo, Western Australia.—J. E. I. Cairns.

Propagation of Short Waves During a Solar Eclipse.—Edwin J. Alway.

Discussion on Long Distance Receiving Measurements at the Bureau of Standards in 1925 (L. W. Austin).—K. Sreenivasan.

The Relation of Radio Reception to Sunspot Position and Area.—Greenleaf W. Pickard.

Abbreviated Method for Calculating the Inductance of Irregular Plane Polygons of Round Wire.—V. J. Bashenoff.

Piezo-Electric Resonance and Oscillatory Phenomena with Fluxural Vibrations in Quartz Plates.—J. R. Harrison.

Discussions on Telephone Communication Over High Power Lines by High Frequency Currents (C. A. Boddie).—A. D. Duncan, Jr. and Alexander Nyman.

Review of Current Literature.—Stuart Ballantine.

CATALOGUE *of* MEMBERSHIP

ARRANGED ALPHABETICALLY

and

GEOGRAPHICALLY

CATALOGUE OF MEMBERSHIP

January 1, 1928

LIST OF MEMBERS OF ALL GRADES Arranged Alphabetically

(See note on page 41)

A

ABBOTT, ROBERT F. (A'27), Stewart-Warner Corp., 1111 Commonwealth Ave., Boston, Mass. Res.: 61 Empire St., Allston, Mass.

ABBOTT, WALTER (A'27), c/o Radio Corp. of America, Kahuku, Oahu, Hawaii. Res.: P. O. Box 105, Winslow, Wash.

ABERCROMBIE, JULIUS B. (A'27) 1810 Crescent Drive, St. Joseph, Mo. Firm: Radio Station KGBX, Foster-Hall Tire Co., St. Joseph, Mo.

ABEY, ROBERT E. (A'27), 1601 Enderly Pl., Ft. Worth, Tex. Firm: Proprietor, Bob Abey—Radios, 905 W. Magnolia Ave., Ft. Worth, Tex.

ABRAHAM, F. X. J. (A'27), Radio Engineer, Broadcasting House, 39 Park Place, Cardiff, Wales, British Isles. Res.: 6 Werfa St., Roath Park, Cardiff, Wales, British Isles.

ABRAHAMS, SAMUEL L. (A'21), Electrical Engineer, General Electric Co., River Works, Lynn, Mass. Res.: 127 Fay Ave., East Lynn, Mass.

ACHATZ, RAYMOND V. (A'20), Secretary and Genl. Manager, Southern Indiana Tel. Co., Aurora, Ind. Res.: 461 Ridge Ave., Lawrenceburg, Ind.

ACKERLEY, JAMES (A'27), 116 Fairview Ave., Seattle, Wash. Firm: Telephone Engineer, The Pacific Tel. & Tel. Co., Seattle, Wash.

ACKERMAN, E. C. (J'27), 1 Yale Road, Garden City, L. I., N. Y.

ACKERMAN, EDMUND K. (A'27), Secretary and Manager—Radio Retail Stores, The Bolton Sq. Electric Co., 8903 Carnegie Ave., Cleveland Ohio, 1698 E. 90th St., Cleveland, Ohio.

ACKERMAN, MILTON J. (A'25), 103 W. Main St., St. Johnsville, N. Y. Firm: Broadest Receiver, Test Dept., General Electric Co., Schenectady, N. Y.

ACTON, EDWARD H. (A'26), Superintendent, Aluminum Co. of Canada, Ltd., Box 100, Shawinigan Falls, Quebec, Canada. Res.: 158 Maple Ave., Shawinigan Falls, Quebec, Canada.

ADACHI, WILLIAM Y. (A'26), 1569 Ocean Ave., Brooklyn, N. Y. Firm: Estimator, Brooklyn Edison Co., Pearl and Willoughby Sts., Brooklyn, N. Y.

ADAIR, SAMUEL E. (M'20), Partner, Jenkins and Adair, Engineers, 1560 N. Dearborn St., Chicago, Ill. Res.: 1036 Sheridan Road, Chicago, Ill.

ADAMS, FRANK S. (A'26), 110 Ivor Road, Sparkhill, Birmingham, England. Firm: Radio Engineer, High Power Wireless Station, Ismailia, Egypt.

ADAMS, GEORGE G. (A'27), Asst. Chief Engineer Municipal Broadcasting Station, Jacksonville, Fla. Res.: 1509 Market St., Jacksonville, Fla.

ADAMS, HARRY W. (A'27), 1720 Catalpa Road, Cleveland, Ohio. Firm: Radio Division, 16800 St. Clair Ave., Cleveland, Ohio.

ADAMS, IRA J. (A'20, M'28), Radio Corp. of America, 233 Broadway, New York City. Res.: Greenwood Lake, N. Y.

ADAMS, ROBERT G. (A'27), P. O. Box 25, Cedar City, Utah. Firm: Manager, Radio Dept., Petty Motor Co., Cedar City, Utah.

ADAMS, ROBERT M. (A'21), Patent Lawyer, c/o Pennie, Davis, Marvin & Edmonds, 165 Broadway, New York City. Firm: 6 E. 58th St., New York City.

ADAMS, STUART (A'27), 21 Hackfeld Road, Worcester, Mass.

ADAMS, WILLIAM E. (A'27), Service Engineer, Elliott Radio Sales Corp., 215 Washington St., Binghamton, N. Y. Res.: 7 Clayton Ave., Binghamton, N. Y.

ADAMSON, WILLIAM S. (A'27), 1017 North Ross St., Santa Ana, Calif. Firm: Sales Manager, Howard Radio Service, Santa Ana, Calif.

ADDEY, FREDERICK (F'20), Assistant Inspector Wireless Telegraphs, Wireless Branch, Sec'y., Office, G. P. O. North London, E. C. 1, England. Res.: "Rycroft," Chisbrook Road, Grove Park, London S. E. 12, England.

AFFEL, HERMAN A. (A'15), 232 Upper Blvd., Ridgewood, N. J. Firm: Engineer, Amer. Tel. & Tel. Co., Dept. of Development and Research, 195 Broadway, New York City.

AGATE, C. S. (A'19), Chief Engineer, The Marconi Co., Ltd., London, England. Res.: 33 Dorville Rd., S. Crotten, England.

AGNER, G. M. (A'27), 6616 Fauntleroy Ave., Seattle, Wash. Firm: Main Telephone Bldg., Seattle, Wash.

AGUSTY, JAAQUIN (A'26), P. O. Box 868, San Juan, Porto Rico. Firm: Radio Corp. of Porto Rico, San Juan, P. R.

AHRENS, JUSTIN H. (A'25), 45 Magnolia St., Hartford, Conn. Firm: Radio Service, 438 Asylum St., Hartford, Conn.

AIKEN, CHAS. B. P. (A'25), 1821 Monroe St., Madison, Wis. Firm: Mason, Slichter & Hay, Madison, Wis.

AIKENS, ANDREWS J. (A'27), 110 New Montgomery St., Room 1022, San Francisco, Calif. Firm: Engineer, Pacific Tel. & Tel. Co., 140 New Montgomery St., San Francisco, Calif.

AINSWORTH, ARCHUR L. (A'22), Vice President DeForest Radio Corp., Ltd., 245 Carlaw Ave., Toronto, Canada. Res.: 286 Strathmore Blvd., Toronto, Canada.

AITKENHEAD, JOHN, Jr. (A'26), 162 N. Portage Path, Akron, Ohio. Firm: Allen Theater B/C Station, Akron, Ohio.

AKASAKA, TOSHI (A'19), Mgr. of Loudspeakers, 49 Kasumicho, Azabuku, Tokyo, Japan.

AKIN, ROBERT M. (A'26), Ossining, N. Y. Firm: Westchester Radio Labs., Ossining, N. Y.

AKERS, DALLAS C. (A'26), 181 Greenwood Ave., E. Orange, N. J. Firm: Henderson Elec. Co., Ampere, N. J.

AKUTSU, SHIJIJI (A'27), c/o Nippon Musen Denshin Kabushiki Kaisha, Marunouchi, Tokyo, Japan. Res.: 1824 Nagasakimachi, Tokyo Fu, Japan.

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.

- ALBEE, NORMAN E. (A'16), 3338 Burnet Ave., Cincinnati, Ohio. Firm: Crosley Radio Corp., Cincinnati, Ohio.
- ALBERT, WILLIAM H. (A'26), 151 Mandeville Ave., Boonton, N. J. Firm: Laboratory Assistant, Radio Frequency Labs., Boonton, N. J.
- ALBERT, WILLIAM V. (A'15), c/o General Delivery, Reading, Pa.
- ALBIN, FREDERICK G. (A'26), 2228 Dana St., Berkeley, Calif. Firm: Vice President, Radio Sales & Service, Inc., 1264 S. Lake St., Los Angeles, Calif.
- ALBISTON, WILLIAM A. (A'25), BM/BRD4, London, W. C. 1, England. Firm: Radio and Electrical Engineer, Baily, Grundy, and Barrett, Ltd., Elec. & Radio Engrs., Cambridge, England.
- ALBRIGHT, GEORGE F. (A'27), Technical Dept., Brunswick Balke Collender Co., 708 Broadway, Cincinnati, Ohio. Res.: 3630 Reading Rd., Cincinnati, Ohio.
- ALCOTT, GEORGE B. (A'25), c/o C. T. King Co., 95 Pearl St., Hartford, Conn.
- ALCUS, ISAAC (A'26), 7445 Maple St., New Orleans, La.
- ALDERMAN, LAWRENCE T. (A'27), 1416 Nelson Ave., Bronx, New York City. Firm: Manager Park Row Radio Co., 29 Park Row, New York City.
- ALEXANDER, D. C. (A'27), Manager Radio Department, Alexander-Seewald Co., 102 W. Peachtree St., Atlanta, Ga. Res.: 896 W. End Ave., Atlanta, Ga.
- ALEXANDER, LOUIS (A'26), 1627 Univ. Ave., New York City. Firm: Sales Engineer, Aerovox Wireless Corp., 70 Washington St., Brooklyn, N. Y.
- ALEXANDERSON, E. F. W. (A'13-M'13-F'15), General Electric Co., Schenectady, N. Y.
- ALLAN, J. T. (A'26), Abington, Hockley, Essex, England.
- ALLEN, ALBERT B. (A'26), 1549 Temple Ave., Detroit, Mich. Firm: D. & L. Radio Corp., Detroit, Mich.
- ALLEN, ALBERT (A'27), 16 Wildwood St., Winchester, Mass. Firm: Atlantic Precision Co., Boston, Mass.
- ALLEN, ALVA J. (A'26), Minford, Ohio. Firm: Stockham & Payne, Portsmouth, Ohio.
- ALLEN, CHARLES G. (A'25), "Dalmeny" 36 Ripley Rd., Belvedere, Kent, England. Firm: Sales Manager Messrs. L. McMichael, Ltd., 179 Strand, London, W. C. 2, England.
- ALLEN, ERNEST J. (A'24), 8 Westfield Place, Dundee, Scotland. Firm: Sturock & Allen, Dundee, Scotland.
- ALLEN, H. CLIFFORD (A'26), Engineer, General Electric Co., Radio Eng. Dept., Schenectady, N. Y. Res.: 4 Grosvenor Sq., Schenectady, N. Y.
- ALLEN, HUGH E. (A'23), 311-5th St., Scotia, N. Y. Firm: General Electric Co., Radio Dept., Schenectady, N. Y.
- ALLEN, JOHN E. (A'23), Chief of Tests, Pennsylvania Water & Power Co., 1611 Lexington Building, Baltimore, Md. Res.: 3805 Cedardale Rd., Baltimore, Md.
- ALLEN, JUSTUS (A'27), 6232 University Ave., Chicago, Ill. Firm: Radio Operator, Great Lakes Radio Broadcasting Co., 2320 Straus Bldg., Chicago, Ill.
- ALLEN, PRESTON D. (A'27), Hotel Oakland, Oakland, Calif. Firm: Director, Broadcasting Station KLX, Tribune Pub. Co., Hotel Oakland, Oakland, Calif.
- ALLEY, KENNETH G. (J'27), 734 Lyon Ave., Carthage, Ill. Firm: Manager, Radio Shop, Carthage, Ill.
- ALLINSON, CYRIL P. (A'26), 38 Barrow Hill Road, St. John's Wood, N. W. 3, England. Firm: Radio Press, London W. C. 2, England.
- ALLNER, FREDERICK A. (A'22), General Superintendent, Pennsylvania Water & Power Co., Lexington Building, Baltimore, Md. Res.: 11 E. Chase St., Baltimore, Md.
- ALLYN, ROBERT S. (A'27), 41 Park Row, New York City, N. Y. Res.: 24 Irving Place, Brooklyn, N. Y.
- ALMES, WILLIAM E. (A'25), 3301 Wells St., Apt. 10, Milwaukee, Wis. Firm: Julius Andrae & Sons Co., Milwaukee, Wis.
- ALMQUIST, MILTON L. (A'22), Engineer, American Tel. & Tel. Co., Rm. 1540, 195 Broadway, New York City. Res.: 446 St. John's Place, Brooklyn, N. Y.
- ALONSO, JULIO (A'24), Radio Internacional, Marques del Puerto 8, Bilbao, Spain. Res.: Las Arenas, Bilbao, Spain.
- ALPERN, DWIGHT K. (A'24), Instructor in Electrical Engineering, New York University, University Heights, New York, N. Y. Res.: 3751-89th St., Jackson Heights, L. I., N. Y.
- ALSTON, VERNON CHARLES (A'27), 1122 Coplin Ave., Detroit Mich. Firm: Radio Engineering Dept., Detroit News, Detroit Mich.
- ALVERSON, JAMES G. (A'26), 744 Tularesa Drive, Los Angeles, Calif. Firm: Radio Department, H. Earle Wright, Inc., 415 E. 8th St., Los Angeles, Calif.
- ALVORD, CARL G. (A'24), 115 Litchfield St., Torrington, Conn.
- ALWAY, EDWIN J. (A'24), 38 Miles Road, Epsom, Surrey, England.
- AMBROZICH, JOHN L. (J'26), 213 W. Locust St., Chisholm, Minn.
- AMMEN, CHARLES E. (A'25), 350 Lowerline St., New Orleans, La. Firm: General Manager, Radio Shoppe, Inc., New Orleans, La.
- AMY, ERNEST V. (A'20, M'27), 235 W. 76th St., New York City. Firm: Radio Engineer, Radio Corp. of America, 66 Broad St., New York City.
- ANAZAWA, CHUHEI (A'25), 302 Tsunobazu, Yodobasi-machi, Tokyo, Japan. Firm: Dept. of Communications, Tokyo, Japan.
- ANDERSON, ADRIEN L. (A'17), 316 S. 12th St., San Jose, Calif. Firm: Standard Oil Co., San Francisco, Calif.
- ANDERSON, CHESTER H. (A'26), 905 Lowry Ave., N. E., Minneapolis, Minn. Firm: Crown Iron Works Co., Minneapolis, Minn.
- ANDERSON, CLIFFORD N. (A'19), American Tel. & Tel. Co., D. & R. Dept., 195 Broadway, New York, N. Y.
- ANDERSON, EDWARD R. (A'26), 217 N. Wilcox Ave., Bell, Calif. Firm: Radio Salesman, Eastern Outfitting, Co., 628 S. Main St., Los Angeles, Calif.
- ANDERSON, EDWIN C. (A'20), 45 E. 55th St., New York, N. Y. Firm: Radio Engineering, Radio Corp. of America, 70 Van Cortlandt Park, S., New York, N. Y.
- ANDERSON, G. J. C. (J'27), 120 Maple St., Port Clinton, Ohio. Firm: Velliquette Electric, 103 Madison St., Port Clinton, Ohio.
- ANDERSON, GORDON A. (A'26), 24 Charles St., Council Bluffs, Iowa. Firm: Chief Operator, Station KOIL, MonoMotor Oil Co., Council Bluffs, Iowa.
- ANDERSON, HAROLD W. (A'26), Asst. Professor of Electrical Engineering, University of Kansas,

- Lawrence, Kan. Res.: 940 Maine St., Lawrence, Kan.
- ANDERSON, JOHN E. (A'26), 118 Goodrich St., Astoria, L. I., N. Y.
- ANDERSON, LELAND E. (A'27), 1094 Blue Ridge Ave., N. E., Atlanta, Ga. Firm: Supervisor of Communication, Georgia Power Co., Atlanta, Ga.
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- WOODROW, WILLIAM (A'15), 904 Ogden Ave., Highbridge, New York, N. Y. Firm: Instructor, Vocational School for Boys & Evening Trade School, Board of Education, 138th St. and 5th Ave., New York, N. Y.
- WOODRUFF, ALBERT E. (A'20), 614 S. Cuyler Ave., Oak Park, Ill. Firm: Automatic Elec. Co., Inc., Chicago, Ill.
- WOODRUFF, BEN H. Box 178, Meridian, Miss.
- WOODS, MITCHELL D. (A'27), P. O. Box 65, Albion, Ill. Firm: Final Inspector, Howard Radio Mfg. Co., 451 E. Ohio St., Chicago, Ill.
- WOODWARD, BRUCE J. (A'20), Adelia, Wayne County, Pa. Firm: Radio Service, Burcher & Schiesler, Honesdale, Pa.
- WOODWARD, CLARENCE H. (A'25), 6939 S. Harvard Ave., Chicago, Ill.
- WOODWARD, G. E., Jr. (J'27), 11 Keefe Ave., Milwaukee, Wis. Firm: Clerk, Wisconsin Tel. Co., 418 Broadway St., Milwaukee, Wis.
- WOODWARD, PERCY J. (M'16), Marconi's Wireless Tel. Co., Ltd., Marconi House, Strand, London, England. Res.: "Bryn Towel," Wne-fawr, near Carnarvon, N. Wales, England.
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- WOOLF, LOUIS M. (A'27), The Erner Electric Co., 1430 W. 9th St., Cleveland, Ohio. Res.: 11517 Ohlman Ave., Cleveland, Ohio.
- WOOLNER, ELMORE G. (A'25), 34A Conway Ave., Toronto 10, Ont., Canada. Firm: Canadian General Elec. Co., Toronto, Ont., Canada.
- WOOLVERTON, ROBERT B. (A'13-M'13-F'15), Captain, Signal Corps, U. S. Army, Washington-Alaska Military Cable & Telegraph System, Seward, Alaska.
- WORDEN, RALPH P. (A'20), 14965 W. Adams Ave., Lakewood, Ohio. Firm: Radio Editor, Cleveland News, Cleveland, Ohio.
- WOREL, FRANK (A'27), Teaching Assistant, Electrical Engineering Dept., University of Michigan, Ann Arbor, Mich.
- WORRALL, ROBERT H. (A'17), 1821 Riggs Pl., N. W., Washington, D. C. Firm: Radio Engineer, U. S. Naval Research Lab., Bellevue, D. C.
- WORRALL, W. W. (A'27), Salesman, Standard Oil Co. of New Jersey, Greensboro, N. C. Res.: 1233 Harding Pl., Charlotte, N. C.
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- WORTMAN, FRANK W. (A'27), Radio Electrician, New York Division, Barge Office, Room 10, Battery Park, New York, N. Y. Res.: 55 Ham-son Pl., Brooklyn, N. Y.
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- RIGHT, J. WARREN (A'23), Radio Division, Naval Research Lab., Bellevue, Anacostia, D. C.
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Y

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Z

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ZENNECK, JONATHAN (M'13-F'14), Technische Hochschule, Munich, Germany.

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

ZIMMERMAN, GEORGE E. (A'26), Supervisor, Radio Station KPRC, Houston Post Dispatch, Houston, Tex. Res.: 1808 Wheeler, Houston, Tex.

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

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ZWAIN, NOEL (A'27), 102 Oriental Parade, Wellington, New Zealand.

ZWEIGER, OWEN (J'27), 1259 S. Harcourt Ave., Los Angeles, Calif.

CATALOGUE OF MEMBERSHIP

January 1, 1928

Arranged Geographically

UNITED STATES

ALABAMA

Auburn
Hallman, L. B., Jr. (J)
Birmingham
Bell, John C. (A)
McKissack, W. C. (A)
Mobile
David, B. Senior (A)
Montgomery
Trum, Alex D. (A)
Pratt City
Hassler, W. Dan (A)

ARIZONA

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

ARKANSAS

Conway
Cordrey, E. E. (A)
Fort Smith
Barry, Jas. A. (J)
Little Rock
Beem, Raymond L. (A)
Edwards, J. M. (J)
Heim, Rupert A. (A)
Williams, Joe (A)
Siloam Springs
Chandler, C. G. (A)

CALIFORNIA

Alameda
Lubeke, Harry R. (A)
Joost, Leslie B. (A)
Alhambra
Grimes, William F. (A)
Altadena
Johnson, Paul F. (M)
Artesia
Corcoran, Edw. M. (A)
Corcoran, George L. (J)
Azusa
Holcomb, Clyde A. (A)
Bell
Anderson, Edward R. (A)
Berkeley
Albin, Fredk. G. (A)
Beales, John T., Jr. (A)
Culley, Lester D. (A)
Davis, Daryl D. (A)
Eller, W. H. (A)
Farmer, Gordon C. (A)
Greves, George L. (A)
McNance, B. F. (A)
Meissner, Earl R. (A)
Morgan, Howard K. (A)
White, Harold D. (A)
Bishop
Parcher, Frank (A)
Wheeler, Walter R. (A)
Bolinas
Park, Charles W. (A)
Slater, F. Robert (A)

Burbank
Garretson, Oliver S. (A)
Catalina Island
Mott, Lawrence (A)
Paggi, Martin M. (A)
Coronado
Peterson, A. W. (M)
El Centro
Cook, John W. (A)
Fresno
Denny, R. C. (A)
Foin, Owen F., Jr. (J)
Gearhart, Earle J. (A)
McKay, Wm. K. (J)
Schlueter, Edward A. (A)
Wells, Frank T. (A)
Fullerton
Atherton, M. J. V. (A)
Wickersheim, L. W. (A)
Gardena
Wood, Melvin S. (A)
Glendale
Bowles, Theodore C. (A)
Eilers, John (J)
Engen, Ralph E. E. (A)
Farnsworth, Earl S. (M)
Winter, Francis H. (A)
Grass Valley
Cordell, Harry S. (A)
Hemet
Goe, Ernest W. (A)
Hollywood
Dering, Fred J. (A)
Harrington, F. H. (A)
Heinley, Paul P. (A)
Hill, Arthur P. (M)
Levinson, Nathan (M)
Rogers, Melville E. (A)
Sitar, Earl C. (A)
Van Why, F. W. (A)
Willson, Clarence L. (A)
Huntington Park
Breeding, Chas. S. (A)
Kinsall, Lowell S. (A)
Inglewood
Peters, Jay (A)
Jackson
Van Thiel, Jay (A)
La Canada
Benioff, Hugo (A)
La Crescenta
Robinson, Fredk. (A)
Livermore
Ryan, Richard (A)
Long Beach
Barton, Sydney (A)
Moore, Raymond C. (A)
Randall, Arthur G. (A)
Wallace, Donald C. (A)
Los Angeles
Alverson, James G. (A)
Brown, J. Kenneth (A)
Brown, Nicholas E. (A)

CALIFORNIA (Continued)

Los Angeles (Continued)

Bumbaugh, Harold L. (A)
 Cheney, John W. (A)
 Comyns, Wm. L. (A)
 Cunningham, Lodge (A)
 Deming, Willford, Jr. (A)
 Dewey, Fred L. (A)
 Edgcomb, A. J. (A)
 Felstead, Chas. F. (A)
 Ford, W. B. (A)
 Gayman, Chas. W., Jr. (J)
 Glasby, W. Kenneth (M)
 Guilford, E. H. (A)
 Hardy, Wm. H. (A)
 Hauser, Carroll R. (A)
 Hawkins, M. J. (A)
 Hayes, E. K. (A)
 Hendrickson, Clayton (A)
 Hopkins, Stephen (A)
 Houtz, George E. (A)
 Jakosky, John J. (M)
 Kemper, Guy A. (A)
 Kent, Oliver C. (A)
 Koch, Robt. O. (A)
 Korntved, George W. (A)
 Kuchenbaur, Edward (A)
 Lang, William A. (A)
 Langrick, Paul D. (A)
 Leighton, H. W. (A)
 Lindsay, W. W., Jr. (M)
 Madsen, Norman L. (A)
 Marshall, Cloyd, Jr. (A)
 Mason, C. W. (A)
 McCabe, Wm. E. (A)
 McCreery, M. E. (A)
 McDonough, Thos. F. (A)
 Miller, Chas. E. (A)
 Morris, James W. (J)
 Moore, Raymond M. (A)
 Morrison, L. H. (A)
 MacMurphey, F. (A)
 Nolan, A. B. (A)
 Ormiston, K. G. (A)
 Pslthorpe, Harold J. (A)
 Pearce, Harry G. (A)
 Pfeleger, Robert A. (A)
 Ramsay, A. N. (A)
 Reed, George H. (A)
 Riggs, Clare A. (A)
 Rusthol, Howard W. (A)
 Sheldon, C. C. (A)
 Smith, C. Bernard (A)
 Sohor, P. H. (A)
 Stratton, Ross A. (A)
 Stuedle, Emry C. (A)
 Tatreault, Leon E. (A)
 Taufenbach, Leslie E. (M)
 Vauchelet, B. F. (A)
 Wainwright, Stuart F. (A)
 Walling, Horace S. (A)
 Ward, Jack (A)
 Whiston, R. W. (A)
 Young, William G. (A)
 Yount, L. E. (A)
 Zweiger, Owen (J)

Manhattan Beach

Tischer, Frank A. (A)

Marshall

Reid, Irl H. (A)
 Wissmann, J. T. (A)

Mayfield

Paul, Ernest E. (A)

Monterey

Brokaw, Hal R. (A)
 Greene, Harry A. (A)

Mountain View

Winnegar, W. A. (A)

Oakland

Allen, Preston D. (A)
 Baker, Jos. W. (A)
 Brown, E. L. (A)
 Brown, James F. (A)
 Burchard, Bruce M. (A)
 Cross, Chas. H. (A)
 Engholm, Bernard A. (M)
 Kellogg, Walter D. (A)
 Madden, Roy E. (A)
 McCarthy, John M. (A)
 St. Clair, Alex. V. (A)
 Stone, Ellery W. (F)
 Wooley, Myles L. (A)

Olympia

Kaufman, A. W. (J)

Orange

Waters, John E. (A)

Oxnard

Bannister, M. W. (J)
 Newcomb, Carleton A. (A)

Pacific Grove

Wood, Stanford J. (A)

Palo Alto

Beal, R. R. (A)
 Brown, Archibald S. (A)
 Case, Nelson P. (A)
 Cattell, Gilbert W. (A)
 Cordes, Henry G. (A)
 Elliott, H. F. (M)
 Fuller, Leonard F. (F)
 Kolster, F. A. (F)
 Lewelling, Raymond (A)
 Marx, Roland G. (M)
 Miller, H. P., Jr. (M)
 Overacker, Horace E. (A)
 Ray, John N. (A)
 Royden, George T. (M)
 Scofield, P. F. (A)
 Tinney, Francis B. (A)

Pasadena

Bradshaw, Robt. C. (A)
 Brown, Howell C. (A)
 Felch, H. F. (A)
 Hopper, F. L. (A)
 Howes, Edgar T. (A)
 Macik, Frank (J)
 Nikirk, Thos. E. (A)
 Oboukhoff, Nicolai (M)
 Smith, Robert L. (A)
 Thompson, Isaac (A)
 Wright, Oliver (A)

Piedmont

Meyers, Walter M. (A)

Pine Knot

Betterley, Jack A. (A)

Pomona

Parker, Evert L. (A)

Porterville

Baker, Lewis C. (A)

Riverside

Chapman, C. W. (A)
 Kennedy, Robert W. (J)
 Norwood, Donald W. (A)
 Parker, Cecil N. (A)

Sacramento

Freiermuth, Vincent J. (A)
 Koch, Wm. F. (A)
 Melnicoe, Samuel (A)
 Messner, R. L. (A)
 O'Brien, John J., Jr. (A)
 Semoni, Anthony J. (A)
 Staats, Ernest (A)
 Weber, Glenn L. (A)

San Diego

Doig, John H. (A)
 Rogatsky, Carl H. (A)
 Stone, John Stone (F)

CALIFORNIA (Continued)

San Diego (Continued)

Wilcox, Nathan (A)
 Wisner, Fred L. (A)

San Francisco

Aikens, Andrew J. (A)
 Bear, Wm. P. (A)
 Behr, Francis (F)
 Best, Gerald M. (M)
 Bradshaw, Lynwood (A)
 Burkett, C. W. (A)
 Colburn, Herbert C. (A)
 Danforth, R. S. (A)
 Danielson, Ernest G. (A)
 Davey, Cedric (A)
 Day, Lambert E. (A)
 Fass, Sydney J. (A)
 Fenner, Paul R. (A)
 Gary, L. A. (A)
 Girsewald, Alexander V. (A)
 Graham, Lloyd E. (A)
 Halloran, Arthur H. (M)
 Hanscom, W. W. (M)
 Hart, Arthur H. (A)
 Heints, Ralph M. (M)
 Highleyman, Richard (M)
 Hoffman, Samuel O. (A)
 Huppert, Henry P. (A)
 King, Howard D. (A)
 Lambert, R. H. (A)
 Larzelere, W. R., Jr. (A)
 Linden, Bernard H. (A)
 Lovejoy, Edwin W. (M)
 Mathes, R. E. (A)
 Mauran, John (A)
 Maynard, Raymond K. (A)
 McDowell, C. S. (M)
 Moore, Paul (A)
 Nikonenko, Paul (A)
 Ogg, Glen R. (A)
 Parker, Ray H. (A)
 Patten, Stanley F. (A)
 Peterson, J. R. (A)
 Powell, Louis H. (J)
 Sachs, Harold S. (A)
 Smith, Chas. S., Jr. (A)
 Sphar, Clark H. (J)
 Squires, Harold W. (A)
 Stagnaro, John A. (A)
 Ternow, Helmut G. (A)
 Tustin, John L. (A)
 Umphreys, John L. (A)
 Wolf, Benjamin (M)
 Youngstrom, Nels C. (A)

San Gabriel

Ashbrook, Roy B. (A)
 Zint, Karl E. (A)

San Jose

Anderson, Adrien L. (A)
 Bradley, Cozzens (A)
 Engwight, Harry (A)
 Quement, Frank J. (A)
 Rathbun, Harry (A)
 Tarot, Alfred (J)

San Leandro

Kerr, Maurice, F. (A)

San Marino

Pohlman, G. Anton (A)

San Pedro

Fromer, Edward J. (A)
 Johnson V. (A)
 Skov, Jens I. (A)
 Snyder, Wm. R. (A)

San Rafael

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

Santa Ana

Adamson, Wm. S. (A)

Santa Barbara

Kempton, Walter D. (A)
 Means, Paul S. (A)
 Sawyer, Gordon E. (A)

Santa Maria

Gioga, Peter C. (A)

Santa Monica

Leavitt, V. N. H. (J)
 Murphy, E. W. (A)
 Willis, Edward N. (J)

Sherman

Smith, Wade H. (A)

Stanford University

Miles, Kirk (J)
 Ryan, Harris J. (M)
 Terman, Fredk. E. (A)

Stockton

Clarkson, Chas. N. (A)
 Harvey, Vernon L. (A)
 Schulz, Paul C. (A)

Sunnyvale

Veirup-Jensen, J. G. (A)

Tujunga

Feringer, William (A)

Van Nuys

Marsden, George K. (A)

Vallejo

Robinson, R. J. (A)

Ventura

Snow, Louis A. (A)

Whittier

Leffingwell, E. De K. (A)
 Mendock, Fred C. (A)
 Rhodes, L. G. E. (A)
 Smith, L. Elden (J)

Wilmington

Rang, George N. (A)

COLORADO

Arvada

Kelso, Rupert E. (A)

Colorado Springs

Blair, Wiley, Jr. (A)

Delta

Fulghum, Charles K. (A)

Denver

Earnhart, Glen W. (A)
 Grove, William C. (A)
 Griffiths, Chas. B., Jr. (A)
 Jensen, Sven (A)
 Mather, Cuthbert C. (A)
 Owen, Robt. H. (A)
 Painter, Chas. E. (A)
 Pyle, Wm. D. (A)
 Reynolds, W. D. (A)
 Rowe, F. S. (A)
 Segal, Paul M. (A)
 Vos, Arthur, Jr. (J)
 Williams, Howard M. (J)

Englewood

Peterson, Frank M. (A)

Fort Collins

Houge, Chas. A. (A)

Fort Lyon

Osgood, Albert S. (A)

Lajunta

Carter, Clarence D. (A)

Lamar

Baldwin, John M. (A)

Pueblo

Bowen, Clyde L. (A)

Nelson, A. L. (A)

CONNECTICUT

Bridgeport

Campbell, Charles H. (A)
Gould, Leslie A. (A)
Ham, Frank M. (A)
Kingston, C. Budwell (A)
Lyford, Elmore B. (A)
Nothnagle, George E. (A)
Tomlinson, Harry E. (A)
Weidenhammer, Carlton A. (A)

Danbury

Gillotti, Albert C. (A)

Fairfield

Hurd, Ralph G. (A)

Glastonbury

Beckley, F. Cheyney (A)

Greenwich

Minton, Ogden (A)

Groton

Fletcher, E. S. (M)

Hartford

Ahrens, J. H. (A)
Alcott, George B. (A)
Angello, A. A. (A)
Barnes, Howard N. (A)
Beckwith-Ewell, S. L. (A)
Cowles, W. G. (A)
Handy, Francis E. (A)
Harty, Louis W. (A)
Hebert, Arthur A. (M)
Hull, Ross (M)
Kiley, Edward C. (A)
Kutscher, Louis F. (A)
Maxim, Hiram Percy (A)
Page, Atwood C. (A)
Pember, Harold H. (A)
Rodimon, Clark C. (J)
Seeli, Russell G. (A)
Westman, Harold P. (A)
Young, N. Y. (A)
Radom, Robert (A)

Litchfield

Vanderpoel, 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. (F)
Harrison, Jamison R. (A)
Van Dyke, K. S. (M)

Naugatuck

Backlund, Louis R. (J)

New Britain

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

New Haven

Doolittle, Franklin M. (A)
Israel, John O. (A)
Tucker, George B. (A)
Turner, H. M. (M)
Weed, C. Bronson (A)

New London

Dillow, Arthur P. (A)

Norwich

Hubbard, Jas. L. (A)

Seymour

Dana, A. S. (A)

Sound Beach

Yates, Raymond F. (M)

Southington

Lewis, Earl B. (A)

Stamford

Cronkhite, Minton (M)
Stephenson, Martin A. (A)

Storrs

Noble, Daniel E. (A)
Pownall, Roger F. (A)
Van Heiningen, W. A. (J)

Stratford

MacIntyre, James R. (A)

Torrington

Alvord, C. G. (A)
York, Peter J. (A)

Waterbury

Bennett, Morris H. (A)
Winchell, Alfred M. (J)

West Haven

Atwood, Warren S. (J)

West Hartford

Wagner, R. P. (J)
Warner, K. B. (M)
Mueller, Paul M. (A)
Montgomery, Phillip (A)
Kruse, Robert S. (M)
Gade, Wm. H. P. (A)

Westport

Perry, Wm. A. (A)

Wethersfield

Mitchel, James A. (A)

DELAWARE

Wilmington

Casey, K. K. V. (A)
Henning, C. I. B. (A)
Mertz, John M. (A)

DISTRICT OF COLUMBIA

Anacostia

Colvin, Ruel (A)
Delworth, Leo J. (A)
Hanson, M. P. (A)
Owens, R. B. (M)
Taylor, A. Hoyt (F)
Rietzke, E. H. (A)
Wright, J. Warren (A)

Tokoma Park

Sammons, Floyd (A)

Washington

Austin, Louis W. (F)
Backus, Cyrus D. (M)
Berry, H. P. (A)
Biebel, Lawrence B. (J)
Bliss, Alonzo O., Jr. (A)
Brady, John B. (A)
Burgess, Warren B. (A)
Chromy, B. J. (A)
Chubb, Wm. M. (A)
Cohen, Louis (F)
Corbett, W. E. (A)
Corrigan, Jas. T. (A)
Crossley, Alfred (M)
Dagg, T. Ralph (A)
Dewhirat, Thornton P. (A)
Diamond, Harry (A)
Drury, Paul O. (A)
Gebhard, Louis A. (A)
Glaser, Stanley (A)
Graf, Alois W. (A)
Graham, G. W. (A)
Gross, Gerald C. (A)
Guthrie, Fredk. P. (M)
Heaton, Vincent E. (A)
Heinl, Robert D. (A)
Heron, Louis M. (M)
Hill, Guy (F)
Hineman, J. H., Jr. (A)
Hogg, Win. S., Jr. (A)
Hund, August (F)
Johnson, Albert E. (A)
Johnson, Reverdy (A)

DISTRICT OF COLUMBIA (Continued)

Washington (Continued)

Judaon, Elbert B. (A)
Kirby, Saml. S. (A)
Kriz, Jos. (A)
Kuhn, George (A)
Loomis, Mary Texanna (M)
Mauborgne, J. O. (M)
May, Albert (A)
McCandlish, B. V. (A)
Merryman, Earl A. (A)
Mickey, Leroy (A)
Mirick, Carlos B. (A)
Nowell, Lyman T. (A)
Page, Robert M. (A)
Parkinson, Taintor (A)
Pegg, W. Lynwood (A)
Powell, Edwin L. (A)
Pratt, Haraden (M)
Rohrich, George J. (A)
Shortland, Jas. W. (A)
Smith, Jas. E. (M)
Squier, George O. (F)
Stewart, Ralph B. (M)
Taylor, M. B. (A)
Terrell, Robert L. (A)
Terrell, W. D. (A)
Waldo, George V. (A)
Weber, Carl F. (A)
Wheeler, Harold A. (M)
Willoughby, John A. (A)
Worrall, Robert H. (A)
Young, Leo C. (A)

FLORIDA

Bradenton

Whitaker, Anton K. (A)

Coral Gables

Entrekkin, Carl A. (A)

Fort Pierce

Taylor, James C. (A)

Jacksonville

Adams, George G. (A)
Aymar, Erwin (A)
Cooper, John C., Jr. (A)
Preese, Richard, Jr. (A)
Reid, Robert H. (J)
Winter, E. M. (A)

Melbourne

Christensen, B. J. (A)

Miami

Evans, Jas. C. (A)
Watts, E. G. (J)

Orlando

Green, Chas. M., Jr. (A)
Hopkins, John S. (J)
Kent, Roscoe (A)

Pensacola

Hallam, John T. (A)
Scott, Carl A. (A)

Sarasota

Service, Chas. A., Jr. (A)

South Jackson

Grange, Gifford (A)

St. Augustine

McCallum, Francis L. (A)

St. Petersburg

Rosseter, E. A. (A)

Tampa

Fisher, Carroll S. (A)
Moore, Wm. P. (A)

West Palm Beach

Lelwich, E. H. (A)

Winter Park

Lee, Wm. J. (M)

GEORGIA

Atlanta

Alexander, David C. (A)
Anderson, Leland (A)
Bayliss, V. B. (A)
Brewin, Robert R. (A)
Bristol, T. R. (A)
Cochran, B. W. (A)
Cook, J. M. (A)
Daugherty, Carl F. (A)
Dendy, G. R. (A)
Dobbs, Harry F. (A)
Duncan, James A., Jr. (A)
Hamilton, Joe (J)
Hillegas, John W. (A)
Jackson, Sylvan E. (J)
Jorgenson, Wesley J. (A)
Keith, John M. (A)
Lowlynn, George (A)
Matthews, Allen A., Jr. (J)
Morris, James S. (A)
Murphy, Brower (A)
Owen, Clure H. (A)
Reid, Henry L. (A)
Thornton, Henry P. (A)
Toalon, Maurice K. (A)
Van Nostrand, Walter, Jr. (M)
Willis, Harry L. (M)

College Park

Evaris, C. W. (A)

Columbus

Stuart, John F. (A)

Macon

Rankin, George P., Jr. (A)

Royston

Berryman, Forrest G. (A)

Savannah

Rollinson, John W. (A)

Statesboro

Blicht, James D. (A)

IDAHO

Lewiston

Keyes, Edwin F. (A)

Pocatello

Davis, Glenwood (A)

Idaho Falls

Pederson, Chester D. (A)

ILLINOIS

Albion

Woods, Mitchell D. (A)

Aurora

Achats, Raymond V. (A)
Bliss, Floyd D. (A)

Batavia

Leffler, Ralph H. (A)

Belleville

Hahn, R. W. (A)

Berwyn

Engat, Norbert K. (A)
Hromada, J. C. (J)
Komm, Paul M. (A)
Swallow, Joseph (A)
Wilkinson, L. G. (A)

Bloomington

Stillhamer, Arthur G. (A)

Blue Island

Damm, George J., Jr. (A)

Canton

Ingersoll, Wm. P. (A)

Carthage

Alley, Kenneth G. (J)

Chicago

Adair, S. E. (M)
Allen, Justus (A)
Andres, Lloyd J. (A)

ILLINOIS (Continued)

Chicago (Continued)

Andres, Paul G. (A)
 Ankerson, G. W. (J)
 Armstrong, Harold W. (J)
 Ayer, Oliver G. (A)
 Beane, E. A. (M)
 Beasley, Chas., Jr. (A)
 Benjamin, Abraham S. (A)
 Bergman, G. Wiley (A)
 Bloomenthal, S. (A)
 Borgeson, Carl A. (A)
 Boji, Louis D. (A)
 Brack, G. S. (A)
 Braun, W. C. (A)
 Brenner, Joseph (A)
 Bridgman, Francis K. (A)
 Brittin, F. L. (M)
 Bronson, G. E. (A)
 Browne, L. N. (A)
 Burdett, Sam (A)
 Burglund, Wilfred P. (J)
 Burlington, Fred C. (A)
 Butler, R. H. (A)
 Butterfield, Roy O., Jr. (A)
 Byrnes, Walter C. (A)
 Callahan, James J. (A)
 Campbell, Donald O. (A)
 Campbell, Howard E. (M)
 Campbell, Robert H. (A)
 Canon, Hartman B. (J)
 Carter, A. J. (M)
 Christ, Jay F. (A)
 Chun, Herbert H. (A)
 Clark, B. H. (A)
 Clausing, L. M. E. (A)
 Clough, Kendall (A)
 Cohen, Theodore (J)
 Colwell, Fredk. E. (A)
 Conklin, Elmer H. (A)
 Corbin, H. S. (A)
 Crossett, Edward C. (A)
 Cumming, George (A)
 Davis, Jos. A. (A)
 De Forest, M. J. (A)
 Doleah, Frank J. (A)
 Douglas, James M. (A)
 Dubuclet, S. L. (A)
 Dudley, Beverley (A)
 Ebert, Burton E. (A)
 Edelman, Philip E. (A)
 Eells, M. M. (A)
 Elam, David L. (A)
 Engle, Harry H. (A)
 Epstein, Hirsch (A)
 Esmaker, John B. (A)
 Falknor, Frank B. (M)
 Farley, G. E. (A)
 Fast, John E. (A)
 Fernandez, Dan T. (A)
 Ferris, Frank (A)
 Fischer, Andrew, Jr. (A)
 Forbes, Allan C. (M)
 Foringer, Edgar C. (J)
 Forsberg, O. J. (A)
 Fortington, Wm. H. (M)
 Freeman, Ernest H. (M)
 Freimann, Frank (A)
 Friday, Wilbur L. (A)
 Fritchle, Oliver P. (A)
 Frost, Herbert H. (A)
 Gaines, Benjamin R. (A)
 Gardner, Francis S. (A)
 Gerstle, Carl (A)
 Goldman, Stanley (A)
 Golten, J. N. (A)
 Haag, Merlin W. (A)
 Hall, Edw. G. (A)
 Hansen, Clarence A. (A)
 Hansen, Leland S. (A)
 Hanson, Earl C. (A)
 Harper, W. W. (M)
 Harries, Hugh M. (A)
 Hassel, Karl E. (M)
 Hastings, Herbert (A)
 Hensley, D. F. (A)
 Hecht, Royal H. (A)
 Henry, Charles C. (A)
 Hines, Albert D. (A)
 Holmquist, Carl T. (A)
 Holroyd, Richard J. (A)
 Holst, Wendall L. (M)
 Hoppock, Allen H. (A)
 Howard, Austin A. (A)
 Howard, C. M. (A)
 Hurja, Arthur O. (A)
 Izenstark, Maurice J. (A)
 Jackowski, I. F. (J)
 Jelen, Matt J. (A)
 Jorgenson, Harold (A)
 Kamin, Vernon A. (A)
 Karcher, Edmund M. (A)
 Kehm, Clarence H. (A)
 Kelley, Harvey T. (A)
 King, H. S. (A)
 Koblitz, August P. (A)
 Koch, E. L. (A)
 Koch, Wm. A. (A)
 Kramer, Andrew W. (A)
 Kruger, Leo H. (A)
 Leidy, Wilmer J. (A)
 Leverett, George H. (A)
 Levy, Henry (A)
 Lill, Daniel F. (A)
 Lipsey, David H. (A)
 Magos, John F. (A)
 Marco, Fredk. J. (M)
 Marshall, Chas. E. (A)
 McConnell, Harold (A)
 McGregor, Arthur M. (J)
 McJilton, De Witt (A)
 McMurdo, Silver (A)
 Meinhard, Herman (A)
 Mercer, John E. (A)
 Mill, Arthur (A)
 Miller, John Harold (M)
 Mills, Elmer E. (A)
 Minnum, Byron B. (A)
 Moas, Edwin (A)
 Mooney, Raymond (A)
 Morris, John F. (A)
 Morrison, H. R. (A)
 Morrison, Montford (M)
 Mueller, Eugene L. (A)
 Nichols, Orlando (A)
 Nieman, A. Thomas (A)
 Novak, Joe J. (A)
 O'Brien, William J. (A)
 O'Byrne, Leo C. (A)
 Ostrowski, Walter R., Jr. (J)
 Oxner, Edwin K. (A)
 Palmer, Lester C. (A)
 Parisiek, Edw. E. (A)
 Parker, Leonard E. (A)
 Peel, Edward R. (A)
 Perkins, Lucius J. (A)
 Pestlin, Le Roy John (A)
 Petersen, Howard E. (A)
 Petzing, E. W. (A)
 Pow, R. K. (A)
 Pfaff, Ernest R. (A)
 Pfeifer, P. S. (A)
 Pieri, Donald (M)
 Piety, Raymond G. (A)
 Polydoroff, W. J. (M)
 Porter, G. O. (A)
 Procnier, W. R. (J)
 Reichmann, Frank (M)
 Rice, Ray (A)
 Riddel, O. A. (A)
 Rodriguez, A. E. (A)
 Rose, Joseph K. (A)
 Roes, Ira G. (A)
 Rossiter, Donald R. (J)

ILLINOIS (Continued)

Chicago (Continued)

Rowe, Thos. L. (A)
 Royal, Roscoe (A)
 Ryder, Frank A. (A)
 Schafer, Kenneth M. (A)
 Schaefer, Wm. H. (J)
 Schnell, William J. (A)
 Schoenwolf, Fred L. (A)
 Schultz, Emil H. (A)
 Shaw, Robert E. (A)
 Sherman, Wm. C. (A)
 Shotwell, Harold H. (A)
 Slauson, W. T. (A)
 Sloan, F. V. (A)
 Smith, Ernest F. (M)
 Smythe, Edwin H. (M)
 Somersalo, G. A. (A)
 Spaeth, Chas. (A)
 Stevens, Fred B. (A)
 Stewart, Arthur C. (A)
 St. James, Robert T. (M)
 Stone, Carrington H. (M)
 Stuive, Derk (A)
 Suanich, Eugene W. (A)
 Swanson, M. W. (A)
 Sykes, Fredk. W. (A)
 Tamburino, A. C. (A)
 Ten Cate, Arthur (A)
 Teach, W. L. (M)
 Trimble, Loren (A)
 Turner, G. S. (A)
 Turner, Harry E. (A)
 Tyman, Ernst (A)
 Wagner, Elmer H. (A)
 Walgren, C. A. (A)
 Wallander, Ernest, Jr. (A)
 Wang, Theodore J. (A)
 Weissmantel, C. H. (A)
 Weitzel, Leroy B. (A)
 Whan, Loren H., Jr. (A)
 White, Arthur C. (A)
 Wilcox, G. M. (M)
 Williamson, F. E. (A)
 Woodward, Clarence H. (A)
 Wunderlich, N. E. (M)
 Zaruba, Chas. (A)
 Zatorsky, E. F. (A)
 Zeithammel, Adolph J. (A)
 Cicero
 Eilers, Harold J. (J)
 Crete
 Anderson, Wm. T. (A)
 Courchene, Homer B. (A)
 Danville
 Parsons, Chas. (A)
 Decatur
 Spies, Mark C. (J)
 Deerfield
 Strock, Reeve O. (A)
 Des Plaines
 Pippenger, Harold F. (A)
 Elmhurst
 Hercher, F. J. (A)
 Iglis, A. W. (A)
 Evanston
 Burt, Andrew G. (A)
 Cline, Russell A. (J)
 Giard, E. A. (A)
 Hughes, R. E. (A)
 Pennington, Paul (A)
 Wolcott, C. F. (J)
 Forest Park
 Breitenbach, D. S. (A)
 Shaffer, Paul E. (A)
 Freeport
 Neatlerode, Boyd W. (A)
 O'Connell, Gerald (A)

Geneva

Crozier, W. D. (A)
 Kraus, Frederick W. (A)

Glencoe

Marsh, Carlton H. (J)

Harrisburg

Tate, Joseph R. (A)

Highland Park

Millard, E. L., Jr. (J)

Hillsboro

Brooks, Aaron D. (J)

Hinsdale

Hill, Frederick A. (A)

Homewood

Pappin, Richard B. (A)

Kankakee

Potter, M. L. (A)
 Wilhelmi, Julian A. (A)

Kewanee

Carlson, Leonard T. (A)

LaGrange

Hofert, Fred A. (A)

Lake Bluff

Oleson, Harold L. (M)

Lake Fork

Piatt, J. W. (A)

Lombard

Hollenbeck, A. T. (A)

Macomb

Eller, Walter H. (M)

Maywood

Burdick, Allen H. (A)
 Kranz, Herman E. (M)
 Paary, Malcolm J. (A)
 Winkel, Herbert K. (J)

Mooseheart

Shugart, Ralph A. (A)

Mt. Prospect

Gustafson, Gilbert E. (A)

Northbrook

Cole, Jirah D., Jr. (M)

North Chicago

Klock, H. A. (A)

Oak Park

Armstrong, H. M. (A)
 Augustine, R. W. (M)
 Bluzat, Claude R. (A)
 Chase, Leslie H. (A)
 Downs, Kenneth D. (A)
 Doyle, Horace F. (A)
 Drummond, Ralph S. (A)
 Manke, Arthur G. (A)
 Nangle, W. O. (A)
 Pye, Harold C. (A)
 Van Antwerp, Max C. (A)
 Westcott, Philip S. (A)
 Wilder, D. R. (A)
 Witt, Harold A. (A)
 Woodruff, A. E. (A)

Park Ridge

Carr, J. O. (A)

Peoria

Brewer, Francis T. (A)
 Shalkhauer, E. G. (A)
 Tathwell, Archie E. (A)

Quincy

Johnson, J. Robert (A)
 Ittner, Fred W. (A)

Rantoul

Arnold, Thos. E. (A)
 Richard, Chas. W. (M)

River Forest

Heald, Merwyn (A)
 Richards, George W. (J)

ILLINOIS (Continued)

Riverside
Clemons, Dale R. (M)
Greaves, Walter M. (A)
Wills, David C. (A)

Rockford
Ferdinand, Harry P. (A)
Hand, Carl A. (A)
Mitchell, Harvey H. (A)
Ward, Lloyd S. (A)

Rock Island
Foley, Jack (J)

Roscoe
Johnson, Stanley O. (A)

South Chicago
Kahn, Lamos (A)

Springfield
Holtz, Frederick C. (A)
Whannel, R. L. (A)

Stockton
Hanson, R. L. (J)

Streator
Light, Henry M. (A)
Williams, N. B. (A)

Sycamore
Boynton, F. L. (A)

Tuscola
Moulden, Roy B. (A)

Urbana
Brown, H. A. (A)
Morris, Lloyd P. (A)
Knipp, Charles (M)

Waukegan
Knaack, Frank E. (A)
Preston, Cecil W. (A)
Weeks, R. H. (A)

Western Springs
Scott, K. L. (A)

Wheaton
Taylor, Hawley O. (M)

West Liberty
Waddell, G. G. (A)

Wilmette
Martin, Neill H. (A)

Winnetka
Gregory, C. C., Miss (A)
Johnstone, George A. (A)
Mathews, Ralph H. G. (M)

Zion
Mason, C. T. (A)

INDIANA

Albion
Evans, Harry R. (A)

Anderson
Perkins, Laurence M. (A)

Angola
Coulbe, J. B. H. (A)
Brown, Orlan R. (A)

Bloomington
Ramsey, R. R. (M)
Reid, Robert L. (A)
Robinson, James (J)

Connersville
Hanes, Fred B. (A)

Crown Point
Hall, Fred F. (J)

Decatur
Brown, James W. (A)

Fort Wayne
Bohling, C. F. (A)
Cook, Edw. H. (A)
Schryver, Henry A. (A)

Fulton
Gray, Floyd E. (A)

Gary
Malony, John D. (A)

Hammond
Orf, Frank B. (J)
Sherman, Russel H. (A)

Indianapolis
Ashlock, H. D. (A)
Dutton, Charles (A)

Kokomo
Linterman, Walter F. (A)

Logansport
Vivian, Joseph A. (A)

Marion
Foster, Dudley E. (A)

Princeton
Karras, George S. (A)

Richmond
Turner, W. E. (A)

South Bend
Kennedy, James P. (A)
Portman, C. (A)
Wolf, Lester J. (A)

Valparaiso
Cummings, W. H. (J)
Leigh, Charles W. (A)
Lewis, Chester, Jr. (A)
Packman, M. E. (A)

Warsaw
Franklin, Townsend U. (A)

IOWA

Ames
Knouf, Ralph J. (A)
Smith, Earl D. (J)

Burlington
Jeffrey, Byron B. (A)

Cedar Rapids
Collins, Arthur A. (J)
Miller, Clair H. (A)
Paar, H. F. (A)

Clinton
Labatt, M. D. (A)

Council Bluffs
Anderson, Gordon A. (A)
Kelly, Earl L. (A)

Clarinda
Maxwell, Paul D. (A)

Davenport
Ehlers, Paul (A)
Elliott, Frank W. (A)
Schricker, John H. (A)
Speers, John C. (A)

Des Moines
Haigh, M. C. (A)

Dubuque
Bunting, T. R. (A)
Felthousen, A. (A)
Giellis, Ralph (A)
Goodspeed, Lynnmore S. (A)
Roedell, LeRoy W. F. (A)
Smith, C. M. (A)
Spielman, Carl (A)

Fort Dodge
Tunwall, Carl S. (A)

Iowa City
MacDougal, Drew (J)
O'Brien, Elwin J. (A)
Secrest, Charles M. (A)

LeMars
Kime, David O. (A)

Marshalltown
Center, Edgar R. (A)
Pickett, Earl L. (A)

IOWA (Continued)

Muscatine
Baker, Norman G. (A)
Wildman, Thomas S. (A)

Sabula
Kunau, Ralph L. (A)

Shenandoah
MacDonald, William E. (A)
Rydberg, Arthur E. (A)
Yarger, Cecil R.

Sioux City
Price, Carl R. (A)

Villisca
Harris, Merion C. (A)

Waterloo
Hanson, John (A)

Webster City
Daniels, Paul H. (J)

KANSAS

Atchinson
Moore, Eugene A. (A)
Robb, Joseph Scott (A)
Stein, Frederick W. (A)

Ellis
Harrison, Louis A. (A)

Emporia
Miller, R. F. (A)

Fort Leavenworth
De Remer, C. W. (M)

Independence
Elliott, Ralph W. (A)

Lawrence
Anderson, H. W. (A)
Devine, William F. (A)
Douglas, Norvel (J)
Kent, Paul M. (A)

Manhattan
Bueche, Harry S. (A)

Topeka
Cook, John W. (A)
Gordon, Herbert C. (A)
Maey, M. W. (A)

Wichita
Andrews, Elmer (A)
Byers, H. O. (A)
Crabtree, Clyde A. (A)
Marshall, George E. (A)
Mitchell, Theodore R. (A)
Riggs, A. V. (A)
Walter, L. E. (A)

Winfield
McClelland, H. W. (A)

KENTUCKY

Bypro
McGeorge, Donald H. (A)

Hardinsburg
Pyle, R. C. (J)

Hopkinsville
Harness, Sam A. (A)

Lexington
Charbonneau, Allan P. (J)

Louisville
Berry, Robert C. (A)
Graft, J. Emmett (A)
Harlow, Fred G. (A)
Magner, Sylvester L. (A)
Marshall, Albert B. (A)

Newport
Kolo, R. E. (A)

Owensboro
Field, Robert W. (A)

Weeksburry
Hines, Oscar T. (A)

LOUISIANA

Clinton
Carleton, Thomas F. (J)

Lake Charles
Lake, Thornton G. (J)

New Orleans
Alcus, Isaac (A)
Ammen, Charles E. (A)
Andres, Charles, Jr. (A)
Bastian, Louis (A)
Clemmons, W. A. (A)
Deiler, T. G. (M)
Du Treil, L. J. N. (M)
Ellingson, H. L. (A)
Gallo, Louis J. (M)
Gardberg, Joseph (A)
Gideire, Philip S. (A)
Green, W. H. (A)
Hart, N. E. (A)
Jensen, Valdemar (A)
Jones, Edward T. (M)
Lehde, Pendleton E. (F)
McCabe, Louis I. (A)
Maier, Otto T. (A)
Moore, Frank C. (A)
Nebe, H. G. (A)
O'Neil, Maurice B. (A)
Peirce, George H. (A)
Salzer, H. S. (A)
Schiele, Anton A. (A)
Stevens, William J. (A)
Sweetman, J. Marion (A)
Tominsson, John F. (A)
Whitney, Charles L. (A)

Shreveport
Claycomb, Hugh (A)
Lock, Milton K. (A)

MAINE

Belfast
Castor, A. H. (A)
Leighley, Harry M. (A)
Moore, John B. (A)

Brunswick
Little, Noel C. (A)

Houlton
Dombek, P. John (A)
Harper, A. E. (M)
Richey, Joseph L. (A)

Orono
Cloke, Paul (M)

South Portland
Upton, Harry E. (A)

Yarmouth
Wright, Louis M. (J)

MARYLAND

Annapolis
Brewington, C. W. (A)
Carboni, Anthony (A)
Giet, G. Robert. (A)
Robinson, Gordon D. (A)

Baltimore
Allen, J. E. (A)
Allner, F. A. (A)
Cooke, Gerald W. (A)
Cunningham, K. S. (A)
Emmerich, H. J. S. (A)
Fallon, G. P. (A)
Fetsch, Joseph T., Jr. (A)
Graf, Herman, Jr. (A)
Hannah, George M. (A)
Herndon, Landon C. (A)
Keofer, C. Warfield (A)
Lange, Edward H. (A)
Marshall, Albert E. (A)
McCoy, George G. (A)
Miller, J. Purnell (A)
Millhollain, Lorren E. (A)

MARYLAND (Continued)

Baltimore (Continued)

Mullen, Joseph G.
Ranff, William Q. (A)
Seitz, J. Fred (A)
Sterling, George E. (A)

Bethesda

Bush, George P. (M)

Chevy Chase

Dellinger, J. H. (F)
McClelland, H. M. (M)

Cumberland

Craig, Joseph B. (A)
Sweitzer, Guy H. (A)

Easton

Milanio, Clarence (A)

Hagerstown

Williams, G. H. (A)

Hyattsville

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

Silver Springs

Quaintance, Leland C. (A)

Westminster

Utz, William C. (A)

MASSACHUSETTS

Arlington

Rados, C. William (A)

Arlington Heights

Lamson, Horatio W. (M)
Dumble, C. R. (A)

Ashmont

Mullen, Joseph A. (A)

Atlantic

Heap, Sheldon S. (A)

Auburndale

Clapp, James K. (A)

Belmont

Dolbear, Benjamin L. (M)
Hughes, A. Morris (A)

Beverly

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

Boston

Abbott, Robert F. (A)
Beakes, William E. (M)
Blanchard, Dwight E. (A)
Cabot, George E. (A)
Campbell, Harold G. (A)
Cumming, L. Gordon (A)
Emery, R. C. (A)
Fowler, Elisha (A)
Gerber, Nathan (A)
Glendon, Harold H. (A)
Goodrich, Robert R. (J)
Gray, Alfred R. (A)
Greene, L. C. (A)
Harris, C. C. (M)
Hayes, Hammond V. (A)
Hurd, Volney D. (A)
Imlach, George (A)
Klim, J. D. (A)
Jappe, Holger (M)
Kimball, Carlton B. (A)
Michelman, Edward A. (J)
Miles, William E. (A)
Miller, Harold R. (A)
Murray, Albert F. (M)
Nolan, James J. (M)
Pennybacker, Miles (M)
Pitts, Francis D. (A)
Proctor, John J. (M)
Rines, David (A)

Rosenwald, Edwin D. (A)
Simpson, Fred H., Jr. (J)
Stone, C. W. (A)
Tanck, Henry (A)
Whittier, Ellerton W. (A)
Wigglesworth, Frank (A)

Bradford

Knowlton, Robert G. (A)

Brockton

Wright, William L. (A)

Brookline

Bowker, Winthrop H. (A)
Cabot, Sewell (M)
Corbin, Francis L. (A)
Duffy, J. A. (J)
Freman, Stephen, Jr. (A)
Hubbard, Beverly R. (A)
Nash, Russell K. (A)
Peckham, J. H. (A)
Ready, William A. (A)
Taylor, Theodore (A)
Weeks, Miles W. (A)

Buzzard Bay

Chase, Raymond S. (A)

Cambridge

Baldwin, Preston De Grauw (J)
Bauer, P. S. (A)
Brolly, A. H. (A)
Bowles, Edward L. (M)
Burke, Charles T. (M)
Chaffee, Emory L. (F)
Chinn, Howard A. (A)
Cormier, Ernest J. (A)
Eastman, Melville (F)
Fahnestock, H., Jr. (A)
Goldsmith, Lloyd T. (A)
Gordon, Everett P. (A)
Hood, Ernest R. (A)
Hull, Lewis M. (F)
Kear, Frank G. (A)
Kennelly, Arthur E. (M)
Kositzky, James C. (A)
Lane, Henry M. (A)
Le Bel, C. J. (J)
Leduc, Albert G. (A)
Le Van, James D. (A)
McElroy, P. K. (M)
Myers, Gilbert B. (A)
Owens, Richard M. (A)
Pierce, George W. (F)
Pilkington, E. J. (A)
Richmond, H. B. (M)
Phillips, H. B. (M)
Seyfert, Stanley S. (M)
Shaw, Henry S. (M)
Samuel, Arthur L. (A)
Toth, Albert F. (A)
Wildes, Karl L. (A)
Willis, F. H. (A)
Woodrow, J. A. S. (A)

Chatham

Erickson, Carl E. (A)
Starkweather, A. E. (J)

Chelsea

Goodwin, George R. (A)
Harnett, Daniel E. (A)
Murdoch, D. R. W. (A)
Snow, Albert E. (A)

Chestnut Hill

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

Chicopee Falls

Barbor, Verner H. (A)
Chapman, R. C. (A)
Laport, Edmund A. (M)

Danvers

Turenne, W. J. (A)

MASSACHUSETTS (Continued)

Dorchester

Clarke, Ralph S. (A)
O'Day, Arthur C. (A)
Pursell, Clarence V. (A)

East Boston

Limone, Joseph (A)

East Pepperell

Hills, Eugene K. (J)

East Springfield

Coulson, Everett J. (A)
Colson, James L. (J)

Fairhaven

Haydon, Waldo Emerson (J)

Fall River

Bowen, Harold C. (A)

Gloucester

Hammond, John Hays, Jr. (M)
Trenor, Albert D. (A)

Great Barrington

Barkley, Howard F. (A)

Greenfield

Bennett, R. B. (A)

Greenwood

Clement, Ivan C. (A)

Hamilton

Dane, Francis W. (M)

Haverhill

Taylor, B. H. (A)

Hingham

Davidson, Martin (A)
Pratt, Fearing (A)

Hudson

Kaulback, Harold D. (A)

Ipswich

Kelly, C. M. (A)

Jamaica Plain

Mayer, Arthur W. (A)

Longmeadow

Booth, James D. (A)
Brackett, Quincy A. (M)
Phillips, Lloyd B. (A)

Ludlow

Pettengill, G. W., Jr. (A)

Lynn

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

Malden

Millen, James (A)

Marion

Clifton, B. Stanley Yates (M)
Ganz, Arthur W. (A)

Mattapan

Weber, Harold C. (A)

Medford

Hearts, Leslie C. (A)
Powers, Harold J. (M)
Wyman, Raymond C. (A)

Melrose

Cutting, Basil F. (A)
Goodwin, A. R. (A)
Philbrick, L. S. (A)
Jepson, Warren F. (A)

Mittineague

Satern, M. G. (A)

New Bedford

Vermilya, Irving (M)

Newburyport

Hoppes, Thomas T. (A)

Newton

Wilson, Theodore C. (A)

Newton Center

Miller, W. T. (A)
Pickard, Greenleaf W. (F)

Newtonville

Stark, Eldon E. (A)

North Attleboro

Langlois, G. L. (J)

Oak Bluff

Horne, William P. (A)

Plymouth

McCarty, Laurence (A)

Randolph

Halligan, William J. (A)

Revere

Burns, Laurence (A)
Speirs, George E. (J)

Rockland

Wright, W. L. (A)

Roslindale

Hobart, Russell F. (A)
Maginot, E. J. (A)
Van Brocklin, William S. (A)

Roxbury

Canner, William (J)
Paley, Albert A. (A)

Salem

Bolan, Robert S. (A)
Hersey, Ralph H. (A)
Porter, Ralph H. (A)
Stacey, F. A. (A)

Siasconset

Holden, Harry H. (A)

Somerville

Cook, W. H. (A)
McLaughlin, William P. (A)
Mullan, John F. (A)
Root, Leland B. (M)
Trefry, Laurence D. (A)
Tysser, Howard J. (A)

Southbridge

Wells, John M. (A)

South Weymouth

Fearing, Justin L. (A)

Springfield

Batchelder, S. P. (A)
Bock, Ashley P. (A)
Coleman, John B. (A)
Cotter, William F. (A)
Cresser, Isaiah (A)
Curtis, Leslie F. (A)
Dyson, H. R. (A)
Fox, Florian J. (A)
Gilliatt, Leland W. (A)
Holt, Hillis W. (A)
Little, Donald G. (M)
Jackson, Clarence C. (M)
Neal, Chester T. (A)
Toivonen, Egon O. (J)
Vail, H. A. (A)
Wells, Daniel W. (A)

Upham's Corner

Wallace, Gordon S. (A)

Waban

Church, V. S. (A)

Watertown

Campbell, Winifred H. (A)
Fairfax, Lynn H. (A)
Field, Robert F. (A)
Spaulding, R. H. (A)

Waverley

McManus, C. F. (A)

Wellesley

McDowell, L. S. (M)
Russell, Robert D. (A)

Wellesley Farms

Hills, Charles E. (A)

MASSACHUSETTS (Continued)

Wellesley Hills
Palmer, Harry W. (A)

West Somerville
Ekstrand, Edward B. (A)
Hanson, Kermit F. (A)

Williamansett
Hill, George H. (A)

Winchester
Allen, Albert (A)
Browning, G. H. (M)
Burgoyne, Roger M. (A)
Hinners, F. A. (F)
Page, Newell C. (A)

Winthrop
Colton, Howard C. (J)

Wollaston
MacAdam, Mark L. (A)
McGrath, Joseph L. (A)
Pratt, P. W. (A)

Worcester
Adams, Stuart (A)
Gould, William B., 3rd. (A)
Newell, Hobart H. (A)
Van Wert, Clayton S. (A)
Waite, Samuel A. (A)

MICHIGAN

Ann Arbor
Beezer, Joseph E. (J)
Holland, Lewis N. (A)
Katzin, Martin (J)
Palmer, Edward D. (J)
Swain, Robert R. (A)
Underwood, O. D. (A)
Worel, Frank (A)

Battle Creek
Doty, W. E. (A)
Roof, Raymond B. (A)

Bay City
Fischler, Paul E. (A)

Benton Harbor
Miles, K. Walker (A)

Berrien Springs
Fetzer, John E. (A)

Birmingham
Stahl, Theodore H. (J)

Blanchard
Kersey, Russell (J)

Dearborn
Black, Fred L. (A)

Detroit
Allen, Albert D. (A)
Alston, Vernon C. (A)
Annett, Earl (A)
Baxter, C. E. (A)
Berry, E. M. (A)
Buchanan, A. B. (A)
Clark, George R. (A)
Clark, James E. (A)
Clark, Thomas E. (M)
Collins, F. V. (A)
Cornwall, James E. (A)
Courtis, Reginald Petre (A)
Cox, Charles H. (A)
Davis, I. C. (A)
Duston, M. (A)
Evison, Samuel J. (A)
Fisher, J. C. (A)
Gasparovitch, Stephen (A)
Germain, A. L. (A)
Goebel, Eugene S. (A)
Grunow, Oscar H. (A)
Hodder, Herbert F. (A)
Hoffman, Walter R. (A)
Hultberg, Carl A. (A)
Joy, Henry B. (A)

Joyce, Herbert A. (A)
Kinley, Clifford B. (A)
Kirby, Corley W. (A)
Lathrop, F. A. (A)
Lebow, Maurice H. (A)
Lucier, A. J. (A)
Mahl, Albert W. (A)
Malo, Charles D. (A)
Manning, Stanley R. (A)
McCaffry, James A. (A)
McNary, James C. (M)
McWood, William L. (A)
Nash, Frank S. (A)
Outzen, Andrew N. (A)
Owen, Charles W. (J)
Prange, Harry F. (A)
Putnam, Erle T. (A)
Reed, Stanley C. (A)
Robinson, P. S. (A)
Rouston, Gerald S. (A)
Schmalzriedt, T. (A)
Sederstrom, R. J. (J)
Seymour, Fred M. (A)
Simmons, O. B. (A)
Skapick, Stephen J. (A)
Smith, Walter C. (A)
Stansfield, S. (J)
Taylor, Harold E. (A)
Thomas, Walter J. (A)
Trittenbach, J. M. P. (A)
Trowbridge, O. H. (A)
Waynick, Arthur H. (A)
Wilber, Delbert J. (A)

East Lansing
Ball, I. Dale (A)
Osborn, Burr K. (A)

Fenton
Dobbs, F. W. (A)

Flint
Fallain, Frank D. (A)
Forbey, William D. (A)
Morgan, Ernest W. (A)
Stalker, T. L. (A)
Wood, J. Melvin (A)

Grand Rapids
Ringold, H. Russell (A)

Grosse Point Park
Scanlan, Richard J. (A)

Hartford
Devore, William D. (A)

Highland Park
Chen, C. Mayo (A)
Glatzel, Earle D. (A)
Gould, Howard S. (A)

Jackson
Fecholke, Fred (A)
Thorson, Wilbur R. (A)
Ward, Donald H. (A)

Lansing
Willis, E. D. (A)

Menominee
Westervelt, H. P. (A)

Mt. Clemens
Moore, J. Burton (A)
Osborne, Robert L. (A)

Muskegon
Richardson, A. G. (A)
Yoder, Raymond S. (A)

Muskegon Heights
Wolf, Louis (A)

Osseo
Lapham, Olin J. (J)

Port Huron
Brown, Kenneth L. (A)

Royal Oak
Miller, Robert L. (A)
Mogridge, J. Nairn (A)

MICHIGAN (Continued)

Saginaw
Heflin, Arnold P. (A)
Morse, Louis R. (A)
Piaszek, Frank (J)
Thomas, William A. (M)
Troup, Everett O. (J)

Trenton
Williamson, C. G. (A)

Wyandotte
Morris, Carleton D. (M)

MINNESOTA

Baudette
Gjelhaug, J. A. (A)

Carver
Olsen, Marvin S. (A)

Chisholm
Ambrozich, John L. (J)

Duluth
Conrad, Norman L. (J)
Ross, K. H. (A)

Edgerton
Rust, Leslie W. (A)

Elysian
Jarstad, E. O. (A)

Faribault
Carney, P. G. (A)

Hopkins
Fuxa, A. E. (A)

Lakefield
Tkach, George (A)

Mankato
Gordon, E. B. (A)

Minneapolis
Anderson, Chester H. (A)
Comb, David M. (A)
Young, Sumner B. (A)
Volkenant, Gordon W. (J)
Sweeney, Claude D. (A)
Stevens, C. T. (A)
Smeby, Lynne C. (A)
Schnell, Louis J. (A)
Jansky, C. M., Jr. (M)
Hume, A. A. (A)
Hilliard, John K. (A)
Hawn, Robert C. (A)
Hawley, Douglas (A)
Cottam, Dean F. (A)
Edwards, Henry W. (A)
Feldman, Carl B. (A)

Northfield
Culver, Charles A. (M)
Tholstrup, H. (A)

Sleepy Eye
Berkner, L. V. (A)

South Minneapolis
Cosandey, C. J. (A)

St. Paul
Braaten, Arthur M. (A)
Harstad, Harold A. (A)
Janes, Clinton W. (J)
Rankine, James C. (A)

Virginia
Hauts, Theodore (J)

Waseca
Johnson, Edgar F. (A)

Winnebago
Klein, Glen A. (J)

MISSISSIPPI

Meridian
Woodruff, B. H. (A)

Greenville
Scully, J. Pat. (A)

MISSOURI

Cape Girardeau
Hirsch, Oscar C. (A)

Columbia
Lewis, Earl W. (A)

HiggenSVille
Temple, Charles T. (A)

Independence
Barron, Roy C. (A)
Church, Arthur B. (A)
Moler, A. R. (A)

Jefferson
Rawson, Harold R. (A)

Kansas City
Bielenberg, J. F. G. (A)
Bradbury, G. V. (A)
Cook, Ellis C. (A)
Davis, Dudley J. (A)
Goldenberg, H. E. (A)
Groendycke, Richard W. (A)
Kent, James M. (A)
MacDowell, E. B. (A)
Nelson, Axel (A)
Schilling, John T. (A)
Wheat, William G. (A)
Williams, Palmer H. (A)
Young, W. M. K. (A)

Kirksville
Henry, Franklin M. (A)

Lamar
Hoselton, Frank B. (A)

Lutesville
Clark, H. A., Jr. (J)

Rolla
Frame, F. H. (A)

St. Joseph
Abercrombie, Julius B. (A)
Watts, Harold F. (A)

St. Louis
Browning, Roy H. (A)
Corwin, Willis P. (A)
Croxtan, Galen B. (A)
Echrich, H. J. (J)
Fill, John V. (J)
Fillmore, F. A. (J)
Fowler, D. W. (A)
Glasgow, Roy S. (M)
McDaniel, Otto S. (A)
Nugent, Thomas (A)
Pingree, S. J. (A)
Quimby, P. H. (A)
Settle, Herbert B. (J)
Siebothem, L. W. (A)
Van Sickle, George W. (A)
West, William H. (A)
Whitlock, Fred (A)
Zehr, Nicholas J. (A)

MONTANA

Anaconda
Horsfall, James R. (A)

Bozeman
Murray, William A. (A)
Crouter, Leslie E. (A)

Havre
Johnson, Carl A. (A)

Troy
Prince, Frank W. (A)

NEBRASKA

Aurora
Spencer, Albert H. (A)

Clay Center
Johnson, J. L. (A)
Kotera, William J. (A)
Platz, J. H. (J)

NEBRASKA (Continued)

Grand Island
Chamberlain, R. D. (J)

Lincoln
Jensen, John C. (M)
Thatcher, Everett W. (A)
Weldon, J. O. (A)

Omaha
Budgerow, Bert E. (J)
Chansky, L. W. (A)
Crawford, J. B. (A)
Eaton, Waldo W. (J)
Franke, Charles A. (A)
Fetterman, D. M. (J)
Henry, Gordon I. (J)
Hughes, S. B. (A)
McIntosh, Frank H. (J)
Phillips, Elmo W. (A)
Rimermen, Clyde O. (A)
Shirk, K. C. (J)
Stults, E. P. (J)
Thompson, Harry E. (A)

Wayne
Shum, J. Merrill (A)

NEW HAMPSHIRE

Portsmouth
Martin, Julius (M)

Gorham
Dodge, J. B. (A)

Tilton
Booth, Howard M. (A)

Hanover
White, Elliott A. (A)

Manchester
Ryan, M. John (A)

Sunapee
Graves, W. S. (A)

NEW JERSEY

Allenhurst
Seifried, A. E. (A)
Lewis, Harold M. (M)

Ampers
Powers, W. P. (M)

Arlington
Edwards, Joseph B. (A)

Asbury Park
Blatterman, Albert S. (M)
Larson, John M. (A)
Straussman, Arnold D. (J)
Wisner, Victor (A)

Atlantic City
Flett, William F. (A)
Riser, Morris (A)

Audubon
Fisher, Norman (A)

Bayonne
Dillenbeck, Preston D. (A)
Rogers, George White (A)

Belleville
Clegg, Edward B. (A)

Bloomfield
Bernhard, Frederick S. (A)
Born, W. Theodore (A)
Donovan, Daniel R. (A)
Freeman, H. M. (A)
Holborn, Frederick (M)
Kannenstine, F. M. (A)
Koechel, W. P. (A)
Mitchell, C. D. (M)
Peck, Gordon V. (A)
Schoene, Russell L. (A)
Taber, William T. (A)
Tingley, Freeman T. (A)
Weeks, Paul T. (A)
Widell, E. Gideon (M)

Boonton

Albert, William H. (A)
Drake, Frederick H. (A)
Ferris, Malcolm (A)
Haas, John G. (A)
Seabury, R. W. (M)
Snow, H. A. (A)

Bound Brook
Hagmann, Nicklaus (A)
Lindstrom, Arthur J. (A)
Stair, Daniel N. (A)

Bridgeton
Marts, Leon W. (A)

Caldwell
Cole, Arthur B. (M)
Eberhard, Lawrence E. (A)
Stanley, Howard L. (A)

Camden
Darlington, Edgar T. (A)
Gray, J. Calvin (A)

Chatham
De Coutouly, G. C. (A)

Clifton
Phelps, Walter A. (A)
Pearl, Eugene S. (M)
Watts, Ivor B. (J)

Cliffwood
Baumann, Harold C. (A)
Lowry, Lewis R. (A)
Mutch, W. W. (A)

Coytesville
Vecchio, Ferdinand (A)

Deal
Eberhardt, George M. (A)
Ferrell, E. B. (A)
Litton, Charles V. (A)
Rose, Charles F. P. (A)
Schlaack, Norman F. (A)

Denville
Harlan, Edwin W. (A)

East Orange
Akers, D. C. (A)
Brach, Leon S. (A)
Brigham, Cyril A. (A)
Corwin, Alfred H. (A)
Crom, George C., Jr. (M)
Curtis, Austen M. (M)
Derrick, William M. (A)
Duncan, R. D., Jr. (M)
Field, W. Thayer (A)
Gawler, Henry C. (M)
Harris, S. S. (M)
McClary, James P. (A)
O'Donohue, James P. (A)
Perry, Irving D. (A)
Roesch, Robert E. (A)
Rows, Charles R. (M)
Rubin, H. E. (A)
Rudebeck, Everett L. (A)
Shackelford, Benjamin E. (M)
Spencer, Millard C. (A)
Stanwick, Charles A. (A)
Townner, Orrin W. (A)
Velasco, Jose M. (A)

Elizabeth
Brick, Frank R., Jr. (M)
Crowley, David A. (A)
Gundrum, Edward (A)
Hohner, John (A)
Horning, Louis P., Jr. (A)
Jatlow, J. L. (A)
Kellam, C. J. (A)
Morris, Robert M. (A)
Schiff, Frank (A)
Sery, Lester (A)
Tucker, John, Jr. (A)
Walsh, Lincoln (A)
White, Charles P. (A)

NEW JERSEY (Continued)

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

Fanwood
Hall, Clifford A. (A)
Todd, Harold C. (A)

Fort Monmouth
Black, Garland C. (A)

Franklin
Tillson, Benjamin F. (M)

Freehold
Englund, Carl R. (A)

Glen Ridge
Dart, Harry F. (M)

Glen Rock
Bailey, Ralph G. (A)
Clark, Louis E. (A)

Haabrouck Heights
Beach, Chester L. (A)
Scarr, Henry F. (A)

Hillsdale
De Lime, Thomas L. (A)

Hillside
McCauley, John H. (A)

Hoboken
Cunts, John H. (M)
Gorton, R. E. (A)
Hazeltine, Louis A. (F)
Lillenthal, Frederick C. (A)
Roters, Herbert C. (A)
Stempel, Waldemar M. (A)

Irvington
Fread, Harold (A)
Metzger, Henry G. (A)
Mommoo, Ernest J. (A)
Mortimer, Harry H. (A)
Wien, Hans A. (A)

Jersey City
Bremer, Frank V. (A)
Bremer, Harry A. (A)
Brews, Ernest (J)
Edelbach, Ralph L. (A)
Edgar, J. Clifton (A)
Goodwin, Robert F. (A)
Goustin, Joseph (A)
Hanks, Alfred J. (A)
Hartman, Herbert (A)
Holmes, George R. (A)
Johnson, Kenneth S. (M)
Odenbach, Joseph F. (A)
Oliver, George E. (M)
Shimshak, Samuel J. (A)
Walker, C. Robert (A)

Kearny
McCrea, M. Walter (A)

Lakewood
Holman, Lewis H. (J)

Leonia
Erickson, Herman E. (A)
Mustermann, H. G. A. (A)

Little Silver
Ohl, Russell S. (M)

Long Branch
Reinhart, S. M. (A)

Lyndhurst
Gamblin, Seth (A)
Kannenbers, Walter F. (A)
MacDowell, Theron W. (A)

Madison
Manning, Charles T. (A)

Maplewood
Bohn, William C. (A)
Cunningham, F. W. (M)

Osmun, John H. (A)
Pellissier, Marcel R. (A)
Strassner, Frank J. (A)
Trube, C. E. (A)

Maywood
Stantley, J. J. (M)

McKee City
Read, George T. (A)

Merchantville
Patterson, Edward B. (A)

Midland Park
Hogencamp, Harold C. (A)

Milburn
Cassedy, William F. (A)
Schauler, Vincent A. (A)

Montclair
Bogardus, Henry L. (M)
Craig, Palmer H. (A)
De Long, O. A., Jr. (A)
Fraser, William H. (M)
Hervey, John P. (A)
Llewellyn, Frederick B. (A)
Rettenmeyer, Francis X. (A)

Morristown
Poolo, Robert J. (A)

Mountain Lakes
Asserson, Raymond (M)
Flannagan, Coke (M)

Mt. Holly
Coles, C. B., Jr. (A)

Newark
Bennett, Robert W., Jr. (A)
Carle, N. A. (A)
Collins, John (J)
Glauber, John J. (A)
Goodwin, W. Nelson, Jr. (A)
Hall, Norman C. (A)
Hoot, Harold T. (A)
Hooven, M. D. (A)
Kahn, Frederick J. (M)
Larsen, Olrick S. (A)
Lewis, George H. (M)
Lubinsky, Herman (A)
Olmstead, Noel C. (A)
McGall, James G., Jr. (A)
Rypinski, Maurice C. (A)
Schermerhorn, J. L. (A)
Schiffenhaus, Daniel H. (A)
Schmidt, Joseph H. (A)
Scholz, Carl E. (M)
Scott, Walter F. (A)
Sels, Hollis K. (A)
Valentine, Russell D. (A)

New Brunswick
Cumming, Kenneth N. (A)
Freedman, William H. (A)
Ruckle, Ernest G. (A)

Nutley
Broch, Edwin W. (A)
Herbert, A. Aubin (J)

Oceanport
Corderman, W. P. (A)
Murphy, William H. (M)
Pressley, J. H. (A)

Oradell
Brackett, H. H. (A)

Orange
Hardwick, Ambrose H. (A)
Powell, Ralph C., Jr. (A)

Passaic
Berger, Henry C. (A)
Fenimore, Robert S. (A)
Hoffman, Henry J. (A)
Holloway, Gilbert O. (A)
Scott, Herbert J. (A)
Weinberg, Isaac (A)

NEW JERSEY (Continued)

Paterson
Sommer, Emmitt H. (A)
Coddington, R. L. (A)
Kennedy, Arthur (A)
Gold, Herman (A)
Prince, Edward (A)
Thompson, Harold J. (A)

Pequanock
Fenton, William C. (A)

Plainfield
Barbulesco, C. D. (M)
Nielsen, H. V. (A)

Princeton
Morse, Philip M. (A)
Roberts, W. Van B. (A)

Rahway
Gibson, Robert D. (A)

Red Bank
Applegate, William M. (A)
Bruce, Edmond (A)
Fairchild, F. Earl (A)
Trozier, Lucien J., Jr. (A)

Ridgewood
Affel, Herman A. (A)
Boyce, William R., Jr. (A)
Felix, Edgar (M)
Gordon, George (A)
Obrig, James H. (J)
Smith, Theodore A. (A)

Riverdale
Underhill, Charles R., Jr. (A)

River Edge
Higson, Albert J. (A)

Riverton
Ehle, Francis R. (A)

Rockaway
Wilby, Howard M. (M)

Roselle
Guber, Fred H. (A)

Roselle Park
Berger, Maurice (M)
Hornung, Robert H. (A)
McNicol, Donald (F)
Steiner, Melvin C. (A)

Rumson
Frits, H. T. (M)

Rutherford
Carrougher, V. Attwood (A)
Gage, David H. (M)
Hild, George E. (A)
Jackson, B. B. (A)
Moorhead, George H. (A)
Sargent, Charles E. (A)

Secaucus
Smith, Elmer A. (A)

South Orange
Hartley, R. V. L. (M)
Leeb, Henry L. (M)
Rodman, I. P. (M)
Snook, H. Clyde (M)

Teaneck
Rybner, Joergen C. F. (A)

Tenafly
Mallory, Edward B. (M)

Trenton
Frost, H. B. (A)
Kale, Samuel S. (A)
Kelso, J. R., Jr. (A)
Knowles, Edward P. (A)
Raser, Edward G. (A)
Wentzel, Amandus, Jr. (A)

Union City
Erhard, John A. (A)
Schaefer, M. L. (A)

Ventnor City
Sharkey, William J. (A)

Vineland
Himes, Walter L. (A)
Seid, Frederick C., Jr. (J)

Weehawken
Gruenberg, Edwin L. (A)
Smith, Arthur E. (A)

Westfield
Phillips, Leo E. (A)

West New York
Herbst, John A. (A)
Machiorietti, Louis (A)

West Orange
Evans, P. H. (M)
Nelson, Thomas F. (A)

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

Whippany
Keefe, Oscar A. (A)

Woodcliff
Schoonfeld, K. (A)

Woodcliffe-on-Hudson
King, W. L. (A)
Walsh, A. L. (A)

NEW MEXICO

State College
Goddard, Ralph W. (M)
Kiernan, Earl F. (A)

Tucumcari
Todd, William F. (A)

NEW YORK

Albany
Corey, James H. (A)
Kaiser, Fred J. (A)
Mallette, Willis C. (A)
Mesger, George (A)
Pozelsky, Leonard (A)
Skinkle, Myron H., Jr. (A)
Thomas, Joseph D. (A)

Albion
Yahnko, William J. (A)

Ardaley
Boise, Everett B. (A)

Arverne, L. I.
Gradinger, Archie (A)

Astoria, L. I.
Busch, Hugo W. (A)
Ellis, Charles H. (A)
Martin, Louis (A)
Nagy, A. Wheeler (J)
Anderson, John E. (A)
Greene, George J. (J)
Greene, Harry A. (A)
Gritsner, Fred A. (A)
Guntner, Frank A. (A)
Schramm, William (A)
Reynolds, John L. (A)
Toepel, Walter A. (A)

Babylon, L. I.
Smith, J. O. (M)

Ballston Lake
East, Lawrence A. W. (A)

Bayside, L. I.
Bostad, John (A)

Bellaire, L. I.
Brennan, John B., Jr. (A)

Bellerose, L. I.
Speicher, John D. (A)

Bellmore, L. I.
Brown, William A. R. (A)

NEW YORK (Continued)

Binghamton
Adams, William E. (A)

Brewster
Van Horn, A. S. (A)

Brightwaters, L. I.
Camp, V. F. (A)

Brooklyn
Adachi, William Y. (A)
Ashworth, R. H. (A)
Bartnofsky, Harry (A)
Baum, Sydney H. (A)
Baunach, Edward L. (J)
Bayles, Joseph (A)
Bazley, Paul B. (A)
Bernard, Herman (A)
Borislavsky, Michael A. (A)
Boskowitz, B. D. (J)
Brandt, Kristian (A)
Braverman, Rubin R. (A)
Brimberg, Isaac (A)
Bristow, F. R. (A)
Brown, Gilbert G. (A)
Browne, Walram S. (A)
Bullock, Walter (A)
Burdick, A. B. (A)
Byron, Herman W. (A)
Callahan, John L. (A)
Calligheris, John S. (A)
Canavacioli, Frank E. (A)
Carroll, James H. (A)
Coburn, Reuben M. (A)
Coe, Alfred (A)
Cole, Fred S. (A)
Coles, Arthur (A)
Cook, Arthur L. (A)
De Mann, William (J)
De Martino, Michael W. (A)
Densham, Robert S. (A)
Dickman, Carl T. (A)
Disser, William G. (J)
Dolid, Abraham (A)
Domes, Morris M. (A)
Dunn, Lawrence J. (M)
Duryea, Earle K. (A)
Fay, Clifford E. (A)
Ferrota, Joseph L. (A)
Fiala, Anthony Jr. (A)
Fogel, Mortimer H. (J)
Fried, John B. (J)
Fultz, M. E. (A)
Funk, Harold H. (A)
Galburt, Samuel (A)
Garity, William E. (M)
Geloso, John (A)
Gerel, Alexander (A)
Glaser, Edward M. (A)
Goddard, Frederick M. (A)
Goldberg, Emanuel (A)
Grade, Frank E. (A)
Gruetke, C. P. E. (A)
Hadden, Weston (A)
Hakam, Samuel (J)
Hall, William C. (A)
Halligan, Clair W. (A)
Harris, Leonard F. (A)
Hart, Frank A. (A)
Hauemann, Erich (M)
Hemberger, E. F., Jr. (A)
Herman, Joseph M. (A)
Hewlett, O. H., Jr. (A)
Heymann, Joseph (A)
Hillebrand, Henry G. (A)
Hiller, H. E. (A)
Hoefler, H. L. (A)
Hughes, William P., Jr. (A)
Inskip, L. S. (A)
Isaacson, Herbert M. (A)
Jipp, John (J)
Kaplan, Hyman H. (A)
Kasner, Henry P. (A)

Kent, C. Wesley, Jr. (A)
Knight, Harold E. H. (A)
Kriwan, Fred A. (A)
Lefferts, B. (A)
Le Queene, Charles A. (A)
Leuteritz, H. C. (A)
Lifschitz, Julius L. (A)
Lorenz, Paul C. (A)
Loscazo, Peter A. (A)
Lusaier, E. A. (A)
Maher, James F. J. (M)
Mahoney, Joseph N. (M)
Marriott, Robert H. (F)
Marsten, Jesse (M)
Maxfield, Lewis S. (A)
McDermott, Francis J. (A)
McLaughlin, C. E. (A)
Meyer, Herman (A)
Mickelson, C. D. (A)
Miller, Le Roy J. (A)
Moore, Henry H. (A)
Morehouse, Raymond L. (A)
Moxon, Alfred W. (A)
O'Connor, Mort F. (A)
Mullio, William A. (A)
Ostrove, William (A)
Parker, Oliver B. (A)
Paulson, C. S. (A)
Pearson, Herbert B. (A)
Pease, Reginald M. (M)
Perry, H. D. (A)
Pillsbury, E. B. (A)
Rabwelsky, Philip (J)
Redfern, Forest P. (A)
Rieg, F. G. (A)
Ringel, Abraham (M)
Rosenbaum, Jacob (J)
Ross, U. B. (M)
Salzman, David (A)
Schlosberg, Morris (A)
Schranm, Fred W. (A)
Schwartz, Robert (A)
Schwarzaupt, Paul J. (M)
Shaffer, Irving R. (J)
Siofield, Robert W. (A)
Svestacovsky, John (A)
Siegel, Ralph (A)
Silver, B. L. (A)
Sinsheimer, Arthur (A)
Slater, Saul I. (A)
Slepian, Edward (A)
Smith, Franklin S. (A)
Starrett, John S. (A)
Steinberger, Louis (M)
Talley, David (A)
Tangen, Reidar (J)
Toole, John L. (A)
Trott, B. (A)
Tuckerman, L. P. (A)
Uzmann, George J. (M)
Wardwell, Arthur S. (A)
Weber, Paul (A)
Webster, Frank E. (A)
Weingaast, S. M. (A)
Werner, Pierre R. (A)
White, Milton (A)
White, Philip S. (A)
Woodcock, Norman A. (A)
Young, Harold H. (A)

Buffalo
Baker, Neil M. (A)
Barker, C. R. (A)
Barker, H. T. (A)
Bentler, Sherwood J. (A)
Brown, Stanley W. (A)
Cavilleer, Robert P. (A)
Clark, Charles W. (A)
Dickinson, Alfred H. (A)
Donlon, J. B. (A)
Eichman, John, Jr. (A)
Englan, George B. (A)
Fox, Leon J. (A)

NEW YORK (Continued)

Buffalo (Continued)

Fox, Reginald A. (A)
 Gallagher, Edward M. (A)
 Gensler, Edward J. (A)
 Goetz, Otto (A)
 Hayslett, L. A. (A)
 Hector, L. Grant (A)
 Hedtke, Edward (A)
 Hoffman, Joseph (J)
 Horle, Lawrence C. F. (F)
 Horton, Clarence J. (A)
 Huntzinger, F. J. (A)
 Hyman, Irving (J)
 Johnson, James A. (A)
 Jones, Walter R. (A)
 Knowlton, Eugene W. (A)
 Kisker, Lawrence J. (A)
 Lanmon, Maurice C. (A)
 Lawrence, Anthony P. (A)
 March, Philip S. (A)
 Miller, Henry A. (A)
 Miller, John C. G. (A)
 Miller, Theodore W. (A)
 Million, John W., Jr. (M)
 Moore, Charles G. (A)
 Morley, William L. (A)
 Mullett, Charles B. (A)
 Nichols, Raymond D. (A)
 Noel, Lionel S. (A)
 Nowak, Victor V. (A)
 Olson, Carl (A)
 Patey, Harold W. (A)
 Peters, Albert (A)
 Pickett, Glenn H. (A)
 Porter, C. J. (A)
 Racke, Clarence (A)
 Rattle, Clarence H. (A)
 Ritchie, Walter G. (A)
 Schwedt, Milton C. (A)
 Simpson, Burton T. (A)
 Smith, Howard J. (A)
 Stanko, Edward (A)
 Stone, G. Edgar (A)
 Syracuse, Charles (A)
 Voorhaar, Frederick R. (A)

Canandaigua

Long, John J., Jr. (A)

Canton

Priest, Ward C. (A)

Carmel

Light, Frank B. (A)

Cedarhurst, L. I.

Haas, Ira G. (J)

Central Valley

Raynolds, Edward F. (A)

Coney Island

Uchida, Satoshi (A)

Corning

Gage, E. Phelps (A)

Corona, L. I.

Solari, Frank (J)

Croton-on-Hudson

Lecarboursa, A. C. (M)

Douglas Manor, L. I.

Weagant, Roy A. (F)

East Marion, L. I.

Brown, Jesse E. (M)

East Rochester

Lucia, Raymond H. (A)

Elmhurst, L. I.

Eckweiler, George A. (A)
 Eckweiler, Warren M., Jr. (A)

Elmira

Dow, M. Thornton (A)

Far Rockaway, L. I.

Sharp, W. W. (A)

Floral Park, L. I.

Goldsmith, Lloyd T. (A)

Flushing, L. I.

Brandt, Louis H. (A)
 Flory, Carl L. (A)
 Harvey, Clyde C. (A)

Forest Hills, L. I.

Bonanno, Joseph L. (A)
 Goodwin, W. Carlyle (A)
 Underhill, Charles R. (A)
 Waring, Alfred (A)

Freeport, L. I.

O'Neill, John J. (A)

Garden City, L. I.

Ackerman, E. C. (J)
 Henney, Julian K. (M)
 Lynch, Arthur (M)
 Wing, Willis K. (M)

Geneva

Biles, Frank V. (A)

Glen Cove, L. I.

Coles, Robert R. (J)
 Husted, Donald R. (A)

Grasmere, S. I.

Grimes, David (A)

Great Neck, L. I.

Rigney, Douglas (A)

Hamburg

Hartloff, Gordon S. (A)

Hamilton

Dowd, Alfred (J)

Hempstead, L. I.

Kent, Stephen F. (A)
 Smith, H. F. (A)

Hollis, L. I.

Caputo, Nicholas J. (A)
 Coxhead, Henry B. (M)
 Diehl, William F. (A)
 Ehlert, F. C. (A)
 Hotopp, Alfred H., Jr. (A)
 Ma Dan, Edwin M. (M)
 Srebroff, Charles M. (M)

Huntington Station

Flathman, Edward (J)

Hurley

Warren, William A. (A)

Ithaca

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

Jackson Heights, L. I.

Gennaro, Michael (A)

Jamaica, L. I.

Batcher, Ralph R. (M)
 Berel, Milton (A)
 McCord, Orison (A)
 Phelps, Boyd (A)
 Scanlon, Dale L. (A)
 Schwartz, Nathan (A)
 Steinberger, Arthur W. (A)
 Sterns, Morton W. (M)
 Voigt, George (J)
 Styles, T. J. (A)

Kenmore, L. I.

Cox, George C. (A)
 Eckel, Charles B. (A)
 Henderson, K. L. (A)
 Welsher, Carl E. (A)
 Wullenweber, Milton O. (A)

Kingston

Follette, Lester C. (A)

Larchmont

Nilson, Arthur R. (M)

NEW YORK (Continued)

Liberty

Mauer, William V. (J)

Little Neck, L. I.

Di Blasi, John (M)
 MacDonald, William A. (M)

Lockport

Lounsbury, I. R., Jr. (M)

Long Island City, L. I.

Farrand, C. L. (M)
 Geise, Harold (A)
 Hanson, Oscar B. (M)
 Harrison, Perry (A)
 Clement, Lewis (F)
 Leutz, Charles R. (A)
 Newall, Benjamin E. (A)
 Tuttle, C. W. (A)

Lynbrook, L. I.

Fedotoff, Nicholas V. (A)

Mamaroneck

Annuci, Louis M. (A)
 Boucheron, Pierre (M)
 Jarabin, Frank G. (A)

Maspeeth, L. I.

Bennett, Jack (A)

Middletown

Callender, E. R. (A)
 Fish, Edward H. (A)

Mt. Vernon

Dickley, Fred C. (A)
 McGuirk, F. W. (A)
 Muleman, M. L. (A)
 Saunders, Alfred W. (A)
 Houck, Harry W. (M)
 Stone, Clarence G., Jr. (A)

New Brighton, S. I.

Simons, C. Dewar, 3rd (A)

New Rochelle

Dubilier, William (M)

New York City

Adams, Ira J. (M)
 Adams, Robert M. (A)
 Alderman Lawrence T. (A)
 Alexander, Louis (A)
 Allyn, R. S. (A)
 Almqvist, Milton L. (A)
 Alpern, Dwight K. (A)
 Amy, Ernest V. (M)
 Anderson, Clifford N. (A)
 Anderson, Edwin C. (A)
 Anderson, J. E. (A)
 Anderson Pierson A. (M)
 Anderson, S. E. (A)
 Andrews, Joseph F. (M)
 Armstrong, Edwin H. (F)
 Arps, Mervin W. (M)
 Asch, Moe (A)
 Ashbaugh, Edwin C. (A)
 Aull, Wilson, Jr. (M)
 Ausch, Gus A. (A)
 Bailey, A. B. (A)
 Bailey, Austin (M)
 Balagur, Emanuel (J)
 Barnes, John L. (A)
 Batcheller, Arthur (M)
 Baukat, Henry W. (A)
 Behme, H. O. (M)
 Behner, H. C. (M)
 Beltrani, Americo (A)
 Bemis, Edwin W. (A)
 Berman, Harold (A)
 Bernstein, P. (J)
 Berry, James J. (A)
 Betts, Philander H. (A)
 Beverage, Harold H. (M)
 Binns, John R. (A)
 Bischoff, Charles F. (A)
 Bishop, Nathaniel (A)
 Black, Oliver M. (A)
 Blackmar, Abel E., Jr. (A)
 Blackwell, Otto B. (M)
 Blair, R. S. (A)
 Blenheim, William J. (A)
 Bonell, Ralph K. (A)
 Bonett, David J. (A)
 Bouck, Zeh (M)
 Boughton, F. W., Jr. (A)
 Bowen, Arnold E. (A)
 Bown, Ralph (F)
 Braden, Rene A. (A)
 Brill, Jack (A)
 Brown, Charles J. (A)
 Brown, D. S. (A)
 Brunet, Meade (M)
 Bruno, Theodore P. (A)
 Bucher, E. E. (M)
 Buckley, B. E. (A)
 Burchard, John C. (A'25, M'28)
 Burghard, G. E. (M)
 Burns, G. Austin (A)
 Burrows, Charles R. (A)
 Butterfield, Charles E. (A)
 Buttner, Harold H. (M)
 Campbell, John A. (A)
 Carson, John R. (M)
 Cassell, Wesley L. (A)
 Chaffee, Joseph G. (A)
 Chernow, Morris (A)
 Chin, Wang Shou (A)
 Clausen, H. P. (A)
 Cochran, Eugene C. (A)
 Cockaday, Laurence M. (A)
 Coggeshall, Ivan S. (A)
 Cohen, Samuel (M)
 Colpitta, E. H. (F)
 Cooper, Orville T. (A)
 Corwin, Charles I. (A)
 Cousins, Van M. (A)
 Craft, E. B. (F)
 Critsky, M. N. (A)
 Crocker, Stuart M. (A)
 Crosby, George L. (M)
 Csernick, Stephen F. (A)
 C. r. ningham, H. C. (A)
 Carry, Walter A. (A)
 Curtis, Everett N. (A)
 Cutting, Fulton (F)
 Dannals, Earl W. (M)
 Danziger, Harold I. (A)
 Davis, R. K. (A)
 Dean, Samuel W. (M)
 Della Corte, J. P. (A)
 De Mello, William (A)
 Demarest, Charles S. (M)
 Desnoes, Arnold B. (A)
 De Sousa, George S. (M)
 Dickey, Edward T. (M)
 Dietrich, Frederick (A)
 Dietze, Eginhard (A)
 Di Giacomo, Aniello (A)
 Dreher, Carl (M)
 Drew, Charles E. (M)
 Duncan, R. L. (M)
 Dunham, John S. (A)
 Dunlap, Orrin E., Jr. (M)
 Dunn, Gano (F)
 Dustin, E. J. (A)
 Eichberg, Robert L. (A)
 Eldredge, Frank E. (M)
 Emerson, C. W., Jr. (A)
 Enders, Charles E. (A)
 Engel, Francis H. (A)
 Espenschied, Lloyd (F)
 Everett, L. C. (M)
 Facey, John W. (A)
 Franaworth, Philip (F)
 Farrington, John F. (A)
 Fernald, Paul R. (A)
 Finch, James L. (M)
 Finch, W. G. H. (M)

NEW YORK (Continued)

New York City (Continued)

Finlay, Robert C. (A)
 Fisher, Herbert B. (A)
 Fisher, Joseph J. (A)
 Flomenbaum, Hyman (J)
 Forbes, E. D. (F)
 Fox, John P. (A)
 Frank, K. G. (M)
 Freed, Joseph D. R. (F)
 Freericks, Lambert (A)
 Frey, Robert H. (A)
 Frimmerman, Frank (A)
 Furia, John J. (A)
 Furness, G. C. (M)
 Fusco, Alphonse A. (A)
 Gabriellini, W. (A)
 Gary, McCall L. (A)
 Giese, Raymond C. (A)
 Gifford, D. K. (A)
 Gilbert, John J. (A)
 Glenn, Earl R. (A)
 Glenn, Percy R. (A)
 Goggins, W. B. (A)
 Goldsmith, Alfred N. (F)
 Goulden, Stanley W. (M)
 Grabar, John (A)
 Graham, Frank H. (A)
 Graham, William A. (M)
 Granata, Anthony (A)
 Gratzner, Raymond I. (A)
 Green, Ashbel (A)
 Green, Estill I. (A)
 Greig, John (A)
 Griffiths, Clarence M. (A)
 Grinnan, John F. (M)
 Guild, Baldwin (M)
 Guy, R. F. (A)
 Hadden, Harold L. (J)
 Halfpap, Bert A. (A)
 Halpin, William A. (A)
 Hanley, John F. (A)
 Hansen, Edmund H. (M)
 Hartzell, C. C. (A)
 Harkness, Kenneth (M)
 Harley, John B. (A)
 Hart, Roy H. (M)
 Haynes, A. J. (A)
 Heberlein, Arthur A. (A)
 Heising, Raymond A. (F)
 Helm, Carl H. (A)
 Henline, Henry H. (A)
 Herber, John C. (A)
 Herbert, Harold R. (M)
 Herts, Jacques H. (A)
 Hertzberg, Robert (A)
 Heuschkel, Paul J. (A)
 Hills, Barclay E. (A)
 Hincine, Harris D. (M)
 Hogan, John V. L. (F)
 Holcombe, Henry W. (M)
 Hollingsworth, R. L. (A)
 Holloway, Jack (A)
 Holm, Henry R. (J)
 Honanen, R. Karl (A)
 Horneij, Henry J. (M)
 Hornung, Julius I. (A)
 Horowitz, Saul (A)
 Horton, J. W. (A)
 Hough, C. W. (A)
 Howell, Clifford A. (A)
 Howell, Walter J. (M)
 Hubbard, Frank A. (A)
 Hunt, Henry T. (A)
 Hurlbut, Ronald (A)
 Isle, H. A. (A)
 Israel, John J. (A)
 Jablon, William W. (A)
 Janross, Rudolph (A)
 Janke, Alfred H. (M)
 Jensen, Axel G. (M)

Jewett, F. B. (F)
 Johnson, John K. (A)
 Jones, Lester L. (F)
 Jones, Philip C. (A)
 Kahant, Charles G. (A)
 Kambourian, Haig (J)
 Kane, James E. (A)
 Kane, James M. (A)
 Kaster, Alvin (A)
 Kayster, Herbert (A)
 Kelley, Leo A. (A)
 Kelly, Mervin J. (M)
 Kendall, John A. (A)
 Kendall, R. M. (A)
 Kennedy, T. R., Jr. (A)
 Kennedy, William A. (J)
 Kenny, Mathew (A)
 Kilbourne, C. G. (A)
 Kilmer, T. W., Jr. (A)
 King, Frank (A)
 Kispough, Arthur Wells (A)
 Kissel, Alfred L. (A)
 Kitchin, H. W. (M)
 Kleist, Alfred H. (A)
 Klosner, Morris (A)
 Knapp, Joseph F. (A)
 Knettl, Harry R. (A)
 Knight, Octavius (A)
 Knopp, Ernest (A)
 Kroger, F. H. (M)
 Kuhn, Alfred S. (A)
 Lacault, Robert E. (A)
 Lack, Frederick R. (A)
 Lamarque, James W. (A)
 Lane, Frederick A. (A)
 Latimer, C. W. (A)
 Layng, Grant (A)
 Lazarovich-Hrebelianovich, D. (A)
 Leach, Harvey B. (A)
 Lee, Emery H. I. (M)
 Lee, Fat Chang (A)
 Leibe, Frank A. (A)
 Lemmon, Walter S. (A)
 Lenz, Charles S. (A)
 Leroy, Frank S. (A)
 Leslie, Fred D. (A)
 Levy, Mortimer N. (A)
 Lewis, Elmer H. (A)
 Lindmark, Elmer S. (A)
 Lindsay, Russell H. (A)
 Lloyd, T. M. (A)
 Loftin, Edward H. (M)
 Long, Maurice B. (A)
 Logan, Mason A. (A)
 Loynes, Owen H. (A)
 Lundahl, Karl T. (A)
 Lush, William G. (M)
 MacConnach, L. (A)
 MacDonnell, James M. (M)
 MacDougall, Arthur (A)
 MacElyan, Karl M. (A)
 MacKay, W. A. (A)
 Maddox, C. H. (M)
 Magness, Scott A. (J)
 Manderfeld, E. C. (A)
 Marron, George P. (A)
 Marshall, Cesar B. (A)
 Martin, De Loss K. (M)
 McConnell, A. F. (J)
 McCutchen, B. S. (M)
 McFarlane, M. L. D. (A)
 McLagan, Donald R. (A)
 McLean, Philip S. (A)
 McMin, Stanley P. (A)
 McNally, James O. (A)
 Melhuish, Harold T. (A)
 Mellor, William N. (A)
 Meyer, Henry W. (A)
 Meyer, Louis F. (A)
 Miller, Leonard H. (A)
 Miller, Marvin L. (A)
 Millikin, Donald D. (A)

NEW YORK (Continued)

New York City (Continued)

Mills, John (M)
 Millstein, Irving (A)
 Milnor, J. Willard (M)
 Molzen, Charles F. (A)
 Montcalm, S. R. (A)
 Morecroft, J. H. (F)
 Morehouse, Terry B. (A)
 Morse, Arthur H. (M)
 Muller, Herbert W. (A)
 Nason, Charles H. (A)
 Nein, H. R. (A)
 Nelson, E. R. (M)
 Nelson, James R. (A)
 Newman, Alfred C. (A)
 Nicely, Ralph N. (A)
 Nicholides, E. (J)
 Nichols, Leroy C. (A)
 Nicholai, Erwin W. (A)
 Nielsen, Johannes E. (A)
 Nisley, Paul H. (A)
 Nixon, L. A. (A)
 Norberg, Clifford M. (A)
 Nordahl, John G. (A)
 Nymann, Alexander (M)
 Oikle, O. A. (A)
 Osborne, H. S. (A)
 Ocasanyan, Paul C., Jr. (A)
 Osgood, Victor L. (A)
 Oswald, A. A. (F)
 Pacent, Louis G. (F)
 Parker, R. D. (A)
 Pate, Carlton O. (A)
 Pegram, George B. (A)
 Peterson, Cornelius (A)
 Peterson, L. C. (A)
 Phillips, Joseph H., Jr. (A)
 Pierce, Franklin W. (A)
 Pischanz, Hans E. (A)
 Polkinghorn, Frank A. (A)
 Ports, Carl G. (A)
 Potter, Ralph K. (M)
 Potts, John H. (A)
 Price, H. Stewart (M)
 Powley, Allan T. (A)
 Pristas, John E. (J)
 Proffer, John W. (A)
 Pumphrey, Walter H. (M)
 Pupin, M. I. (F)
 Purdy, Fred R. (A)
 Ranger, Richard H. (M)
 Reb, Frank F. (A)
 Reber, Samuel (F)
 Reeber, Herman E. (A)
 Reeves, J. Russell (A)
 Regottaz, Joseph M. (A)
 Reoch, Alexander E. (F)
 Rhodes, T. B. (A)
 Rieger, William (A)
 Ridgeway, James L. (A)
 Riley, Conrad D. (A)
 Ritz, Charles C. (A)
 Robins, J. Francis (A)
 Rodgers, E. J. (J)
 Rodwin, George (A)
 Roos, Oscar C. (F)
 Rose, Arthur F. (M)
 Rosenberg, Irving (J)
 Rossi, R. J. T. (A)
 Rossmassler, Edward C. (A)
 Roth, Jesse E. (A)
 Rothman, Abraham (A)
 Ruben, Alvin S. (A)
 Ryan, Francis M. (M)
 Sacia, C. F. (A)
 Salzberg, Bernard (J)
 Sandalls, George T., Jr. (A)
 Sarnoff, David (F)
 Schechter, Jack (A)
 Schaffstall, R. F. (A)
 Scharp, Wesley W. S. (A)

Schelleng, J. C. (F)
 Schenke, Kurtiss P. (A)
 Schmit, Dominic F. (A)
 Schmitt, F. Edwin (A)
 Schneek, Harry L. (A)
 Schneider, Samuel (A)
 Schnoll, Nathan (A)
 Scholle, Frederick (A)
 Schultes, Martin F. (A)
 Searing, Hudson R. (A)
 Sackel, William (A)
 Sector, Harry W. (A)
 Seidler, Abraham (A)
 Shannon, James E. (A)
 Shannon, Joseph H. (M)
 Shine, L. J. (A)
 Shore, Henry (A)
 Shumard, Charles C. (M)
 Shute, Emmett R. (M)
 Sigety, Louis (J)
 Silent, Harold C. (A)
 Simon, Emil J. (F)
 Singer, Emanuel (A)
 Sinerich, Nathan (A)
 Sivian, Leon J. (A)
 Skirrow, John F. (M)
 Small, P. L. (A)
 Smith, John W. (A)
 Smith, S. B. (A)
 Snee, Thomas H. (A)
 Snow, William B. (A)
 Solow, Abraham (M)
 Sonkin, David (M)
 Southworth, C. G. (M)
 Spence, P. W. (A)
 Spencer, Roy C. (A)
 Spigelthal, Edwin (A)
 Spielman, H. Max (A)
 Sprague, Clarence A. (M)
 Stansel, Frank R. (A)
 Sterba, E. J. (A)
 Stern, Bernard M. (A)
 Stern, Irving (A)
 Stevens, A. M. (M)
 Tannen, Sydney S. (A)
 Taussig, Charles W. (A)
 Taylor, Charles H. (F)
 Taylor, Edmund R. (A)
 Taylor, Jay L. (A)
 Taylor, S. Gordon (A)
 Teeter, Albert A. (A)
 Taylor, W. H. (M)
 Terry, Lambert M. (A)
 Terwilliger, Donald J. (A)
 Thielen, E. J. (A)
 Thomas, W. M. (A)
 Thompson, Albert C. (A)
 Thompson, R. E. (M)
 Thurston, George (A)
 Tierney, Walter L. (M)
 Truax, John (A)
 Tureki, Arthur Z. (A)
 Turner, Alva (A)
 Uehling, E. A. (A)
 Vaill, Edward W. (A)
 Van Blaricom, Millard (A)
 Van Wyck, W. P. (A)
 Volney, S. C. (A)
 Vreeland, Frederick K. (F)
 Wans, Albert (A)
 Wald, David (A)
 Wallace, M. U. (A)
 Washington, Bowden (F)
 Waterman, F. N. (M)
 Weeden, W. N. (A)
 Weinberger, J. (F)
 Wellman, William R. (A)
 Whitehead, Jesse C. (A)
 Whittmore, Laurens E. (F)
 Wiegand, John W. (A)
 Wilbur, Edwin C. (A)
 Wilcox, Henry L. (A)

NEW YORK (Continued)

New York City (Continued)

Willhoff, F. O. (A)
 Willis, Frederick C. (A)
 Wilson, Leon T. (M)
 Wilson, William (F)
 Winner, Lewis (A)
 Winterbottom, W. A. (A)
 Wintringham, W. T. (A)
 Wise, Roger M. (A)
 Wolff, Irving (A)
 Woodrow, William (A)
 Wortman, Frank W. (A)
 Wright, C. F. (A)
 Wright, Harry M. (A)
 Wright, Marshall C. (A)
 Wunderlich, H. A. F., Jr. (J)
 Young, Owen D. (M)
 Zeamans, Harold R. (A)
 Yule, Leslie W. (A)

Niagara Falls

Lidbury, F. A. (A)
 White, J. A. (A)

North Tonawanda

Belling, G. C. C. (A)
 Freck, R. H. (A)
 Schurr, William (A)
 Wesselman, Eugene (A)
 Woods, A. A. (A)

Oakdale Station, L. I.

Whildin, T. N. (A)

Oneonta

Fitch, Ephraim S. (J)

Ossining

Akin, R. M., Jr. (A)
 Christy, D. P. T. (A)

Ossining-on-Hudson

Gowan, Robert F. (M)

Ozone Park, L. I.

Weilminster, Charles (A)

Pelham

Kolb, Walter R. (A)

Port Jefferson, L. I.

Misenheimer, Harvey N. (A)
 White, Laurence S. (A)

Port Jefferson Station, L. I.

Thrush, Paul W. (A)

Port Washington, L. I.

Hafner, Gilbert (A)
 Whiting, Donald F. (M)

Poughkeepsie

Hughes, E. J. (A)

Richmond Hill, L. I.

Ellis, George D. (A)
 Grebe, Alfred H. (F)
 Heins, Henry F. (A)
 Ley, William D. (A)
 Oram, Donald K. (A)
 Rosewater, Edward (A)
 Schafer, J. Peter (A)
 Weinwurm, Robert (A)

Ridgewood, L. I.

Hoehn, George W. (A)

Riverdale-on-Hudson

High, John M. Jr. (A)

Riverhead, L. I.

Ashmore, J. W. (A)
 Canfield, N. A. (A)
 Colvin, R. S. (A)
 Crosby, Murray G. (A)
 Keary, Hugh F. (A)
 Matthews, Walter I. (A)
 Peterson, Harold O. (A)
 Pfauts, Christian E. (A)
 Rundquist, E. C. (A)

Rochester

Bachofer, C. L. (A)
 Balling, Alfred W. (A)
 Bellor, William F. (J)
 Bobrovsky, Igor S. (M)
 Brown, Gordon P. (A)
 Brown, Howard A. (A)
 Chamberlain, Adolph B. (A)
 Clark, Maurice H. (A)
 Conover, John A. (A)
 Dean, John R. (A)
 Dengler, Clarence E. (A)
 De Witt, William H. (J)
 Dodson, George W. (A)
 Dye, L. A. (A)
 Erhart, Victor J. (A)
 Friedler, Dewey P. (A)
 Gordon, H. E. (A)
 Graham, V. M. (M)
 Greenman, Roger B. (A)
 Hanover, Edward A. (A)
 Haas, Paul (J)
 Hendricks, P. S. (A)
 Hitchcock, Joseph F. (A)
 Huntington, M. P. (A)
 Karker, E. C. (A)
 Klumb, Harvey J. (A)
 Knudsen, Casper P. (A)
 Longworth, Arthur W. (A)
 Loucks, Ivan H. (A)
 Manson, Ray H. (M)
 Martin, V. G. (A)
 McCanne, Lee (A)
 McCanne, W. Roy (M)
 Moore, Eric J. T. (M)
 Moot, F. A. (A)
 Nelson, Edward J. (J)
 Reynolds, F. W. (A)
 Roeder, Edward A. (A)
 Schneider, Mendell (A)
 Schoen, Arthur L. (A)
 Scoville, George A. (A)
 Sigl, A. J. (A)
 Simpson, A. K. (A)
 Soderholm, Arthur E. (A)
 Studier, Walter A. (J)
 Sutton, Lewis H. (A)
 White, W. W. (A)
 Wood, M. A. (A)

Rockaway Beach, L. I.

Greiff, Victor (M)

Rockville Center, L. I.

Cardwell, Allen D. (A)
 Costello, Joseph C. (A)
 Hart, Lester B. (J)
 Schudt, William A., Jr. (A)
 Weeks, Norman E. (A)

Rocky Point, L. I.

Hall, Alfred W. (A)
 Hansell, C. W. (A)
 Henderson, Roy A. (A)
 McKesson, L. J. (A)
 Usselman, G. L. (A)

Saranac Lake

Williams, T. E. (A)

Scarsdale

Appel, Joseph H., Jr. (A)
 Higgins, Alfred K. (A)
 Kingsley, Carl (M)

Schenectady

Alexanderson, E. F. W. (F)
 Allen, Clifford H. (A)
 Andrews, Paul D. (A)
 Austin, Edward (A)
 Ayer, Raymond B. (A)
 Bailey, Lester W. (A)
 Baker, W. R. G. (A)
 Ballentine, E. C. (A)
 Berg, Ernest J. (A)
 Berjkoff, A. P. (A)

NEW YORK (Continued)

Schenectady (Continued)

Beshgetoor, Roy V. (A)
 Bradbury, Burke (A)
 Brinkma, L. M. (A)
 Brockman, Francis C. (A)
 Brokaw, Charles A. (A)
 Brown, W. W. (M)
 Burrill, C. M. (A)
 Byrnes, Irving F. (A)
 Carlson, Wendell L. (A)
 Carpenter, Glenn W. (A)
 Carter, E. Finlay (A)
 Coombs, Clyde F. (A)
 Grippen, Eugene C. (A)
 Cummings, B. Ray (M)
 Currier, Guy, Jr. (A)
 Darlington, Eugene S. (A)
 David, W. R. (A)
 Davis, Robert J. (A)
 De Haven, Thomas V. (A)
 DeHaud, Albert J. (A)
 Dome, Robert B. (A)
 Douthitt, M. L. (A)
 Dunning, Orville M. (A)
 Edwards, E. P. (M)
 Engstrom, Elmer W. (A)
 Fitch, William (J)
 Ford, Warren A. (A)
 Fortin, P. R. (A)
 French, Henry G. (A)
 Grover, Frederick W. (M)
 Gunther, Clarence A. (A)
 Hargrave, William A. (A)
 Hartman, Frank C. (A)
 Hauck, Vernon D. (A)
 Hauschild, John P. (A)
 Henyan, George W. (A)
 Holmes, R. S. (A)
 Hoxie, Charles A. (A)
 Huikrants, John G. (A)
 Jackson, Henry W. (M)
 Jones, L. F., 3rd. (A)
 Jones, N. K. (A)
 Kaar, Ira J. (A)
 Kendall, J. M. (A)
 Kinney, Ely M. (A)
 Kober, Paul A. (A)
 Langmuir, Irving (F)
 Leibing, J. K. (A)
 Loughren, Arthur V. (A)
 Love, J. Edwin, Jr. (A)
 Lyndon, William L. (A)
 McCullough, Maurice B. (A)
 Mead, Milton S., Jr. (A)
 Mosher, J. H. (A)
 Mullaney, Dudley A. (A)
 Nolte, Henry J. (A)
 Junken, L. H. (A)
 Patterson, Franklin G. (A)
 Pike, Otis W. (A)
 Priest, Conan A. (A)
 Pulley, Albert A. (A)
 Rice, Chester W. (M)
 Richmond, L. P. (A)
 Ring, Andrew D. (A)
 Rochford, John (A)
 Rockwood, Alan C. (A)
 Roys, H. E. (A)
 Rumble, Alfred R. (A)
 Sadenwater, Harry (M)
 Scheldorf, Marvel W. (A)
 Sherman, Kenneth S. (A)
 Simonds, D. T. (A)
 Singleton, Harold C. (A)
 Snyder Norman (A)
 Stanton, Clair F. (A)
 Steen, Jerome R. (A)
 Stein, Adam, Jr. (F)
 Taylor, L. A. (A)
 Taylor, R. B. (A)

Tittle, Hulburt C. (A)
 Vose, Charles H. (A)
 Walker, C. L. (A)
 Warner, John C. (M)
 Watts, D. E. (A)
 Weir, I. R. (A)
 Weston, John L. (A)
 Whelan, Dow O. (A)
 White, William C. (M)
 Wilson, Donald (A)

Scotia

Allen, Hugh E. (A)
 Arizt, Maurice (A)
 Austin, Kirby B. (A)
 Butler, H. R. (A)
 Chittick, K. A. (A)
 Cook, E. D. (A)
 Fick, Clifford G. (A)
 Fritachel, Eugene (A)
 Palmer, Harry L. (A)
 Richardson, L. W. (A)
 Rockwell, Ronald J. (A)

Southampton, L. I.

Pollard, Leon G. (A)

South Ozone Park, L. I.

Freericks, Bernard, Jr. (A)

Springfield Gardens, L. I.

Bicak, Edward T. (A)

Spuyten Duyvil

De Forest, Lee (F)

Stafford

Sheffer, Olan N. (A)

Stapleton, S. I.

West, Clarence H. (A)
 McArdell, Wesley E. (A)
 Wilby, Edward W. (A)

Staten Island

Hagan, Edward J. (A)
 Younger, Charles (J)

Stewart Manor, L. I.

Clayton, John M. (M)

St. Albans, L. I.

Spicer, Floyd O. (A)

St. George, S. I.

Hines, Joseph (A)

St. Hollis, L. I.

Aubrey, Pierce J. (A)

St. Johnsville

Ackerman, Milton J. (A)

Suffern

Ennis, Fred E. (A)

Sunnyside, L. I.

Carter, Frank L. (A)

Syracuse

Blaich, J. R. (A)
 Davidson, M. H. (J)
 Meredith, Clive B. (A)
 Nicholson, E. J. (A)
 Porter, R. A. (A)
 Potter, Melville R. (A)
 Randall, D. P. (A)
 Topp, Robert J. (A)
 Wolverton, Byron C. (A)

Tarrytown

Dinga, Emil (A)

Troy

Bador, John W. (A)

Tuckahoe

Whitaker, James N. (A)

Utica

Maxwell, George G. (A)
 Peck, E. P. (A)
 Terrill, William N. (A)

Van Hornesville

Young, Charles J. (A)

NEW YORK (Continued)

Water Mill, L. I.
Corwith, H. P. (M)

Waterville
Montross, James G. (A)

Watkins Glen
Pomeroy, R. C. (A)

West Brighton, S. I.
Fletcher, Earle S. (M)

West Point
Crawford, D. M. (A)
Wenstrom, W. H. (A)

White Plains
Griggs, Elmer V. (A)
Halstead, William S. (A)
Lant, E. B. (A)
Maloff, Ioury G. (M)
Minton, John (F)
Sipp, Frederick C. (A)

Williamsville
Hopkins, Nelson S. (A)
Trago, Robert A. (A)

Winfield, L. I.
Barone, Salvatore A. (A)

Woodmere, L. I.
Birkhahn, Robert C. (A)
Ziegler, Frederick J. (A)

Woodside, L. I.
Bell, Leroy J. (A)
Corcoran, Leo F. (A)
Lundie, E. S. (J)
Reuman, William H. (A)

Yonkers
Balsley, James R. (A)
Craig, Albert C. (A)
Grand, Jacob (A)
Runyon, C. R., Jr. (A)
Van Dyck, Arthur F. (F)

NORTH CAROLINA

Asheville
Kent, Harold D. (M)

Biltmore
Moore, George H. (A)

Charlotte
Gluck, E. J. (A)

Durham
Seeley, Walter J. (A)

Greensboro
Worrall, W. W. (A)

Wilmington
Gorsy, Herbert G. (M)

NORTH DAKOTA

Grand Forks
Garad, Earl A. (A)
Grove, George A. (A)
Jenkins, D. R. (A)

Bismarck
Lucas, Stanley M. (A)

Fargo
Swisher, C. L. (A)

OHIO

Akron
Aitkenhead, John, Jr. (A)
Curtis, James O. (A)
Hoffman, Donald A. (A)
Mintz, John W. (A)
Palmer, Roland F. (A)
Starr, Troy S. (A)
Townsend, S. W. (A)
Weaver, Rayman E. (A)
Werham, Alfred B. (A)

Alliance

Dinger, Harold E. (A)
McFall, Theodore C. (A)
Morgan, O. K. (A)

Ashland

Fox, Robert A. (A)

Ashtabula

Collins, J. A. (A)

Avon Lake

Harris, John (A)

Belle Fontaine

Hostetler, Amos C. (A)

Belmont

Greene, Charles E. (A)

Bryan

McEvoy, Paul T. (A)

Canton

Boger, Clair E. (A)
Cattrall, John B. (A)
Herbruck, William M. (A)
Weckel, William E. (A)

Chardon

Canfield, Ira A. (A)

Cincinnati

Albee, Norman E. (A)
Albright, G. F. (A)
Baker, Donald F. (A)
Bussard, E. J. H. (A)
Chambers, E. L. (A)
Crosley, Powell, Jr. (M)
Dixon, C. C. (A)
Fogg, W. C. (J)
Gray, George J. (A)
Greene, Paul A. (M)
Israel, Dorman D. (A)
Jarvis, Kenneth W. (M)
Kellogg, Leonard A. (A)
Lampkin, Guy F. (A)
Langley, Ralph H. (M)
Lehnhoff, Raymond G. (A)
Loof Bourow, J. R. (A)
Marzulli, Angelo M. (A)
Meyrose, Hubert S. (A)
Ogden, Perry V. (A)
Osterbrook, W. C. (C)
Schroeder, B. P. (A)
Spilman, Charles M. (A)
Walker, Frank (A)
Wanstrath, W. Theodore (A)
Youngs, Howard E. (A)

Cleveland

Ackerman, E. K. (A)
Adams, Harry W. (A)
Anderson, R. T. (A)
Baldwin, L. G. (A)
Beasley, Ira E. (A)
Black, A. J. (A)
Bowditch, Fred T. (A)
Browne, Theodore C. (M)
Burtch, Joel A. (A)
Butler, Roy (A)
Calkins, William G. (A)
Candy, Don (A)
Carleton, R. A. (A)
Covert, C. B. (A)
Diabrow, John D. (A)
Dokas, Konstantinos B. (A)
Dodds, Lee L. (A)
Domizi, Danto (A)
Donaldson, Robert O. (A)
Dorn, Harry P. (A)
Durante, Jean Andre (A)
Eberle, Willbert H. (A)
Edwards, Max H. (A)
Ermttinger, Alex E. (A)
Erwin, R. W. (A)
Fouse, Harold (A)
Gardner, Howard S. (A)
Hamman, G. B. (A)

OHIO (Continued)

Cleveland (Continued)

Harrington, J. G. (A)
Henry, Allen W. (A)
Herke, O. L. (A)
Hillis, H. J. (A)
Hunt, Louis W. (A)
Jenkins, Myron Z. (A)
Kachni, F. J. (A)
Kintner, Deanie S. (A)
Klein, Israel (A)
Martin, John R. (M)
McCollister, Donald (A)
MacGregor, Robert (A)
McIlvaine, H. A. (M)
McIlvaine, O. T. (M)
McMahon, Alvin (A)
McMullen, F. C. (A)
Morris, Clarence R. (A)
Newman, Joseph S. (A)
O'Connor, Albert J. (A)
Peoples, A. G. (A)
Robertson, Frank E. (A)
Schneeberger, G. B. (A)
Schraegardus, Dirk (A)
Scott, Ernest P. (A)
Scott, Hoyt S. (A)
Seitz, Valentine (A)
Smith, Sereno E. (A)
Snyder, Robert B. (A)
Sturtevant, Mark (A)
Talkes, Louis N. (A)
Thomas, William W. (A)
Tummonds, Harry A. (A)
Victoreen, C. J. (A)
Victoreen, E. (A)
Victoreen, John A. (M)
Wait, Howard G. (A)
Weide, Frank W. (A)
Wells, Leland E. (M)
Whaley, Howard R. (A)
Wise, Willard B. (A)
Woolf, Louis M. (A)
Yurgionas, John A. (J)

Cleveland Heights

Baier, Arthur H. (A)
Baier, Henry J. (A)
David, Bruce W. (M)
Farnham, Ralph E. (A)
Pruitt, Wilbur C. (A)
Wall, John (A)

Clyde

Ellsworth, William C. (A)

Columbus

Bidlack, Cecil S. (A)
Cole, Alfred D. (A)
Everitt, William L. (A)
Higgy, Robert C. (A)
Krumm, Louis R. (M)
Mercer, Alva (A)
Newby, R. W. (A)
Reynolds, F. D. (A)
Lecka, Warren C. (A)

Dayton

Bickel, Howard I. (A)
Copp, R. S. (A)
Flewelling, Edmund T. (A)
Glendening, D. B. (J)
Hendricks, Lester A. (A)
Hopkins, A. R. (A)
Knott, William M. (A)
Kopf, M. George (A)
Linxweiler, Carl J.
Loftis, Homer J. (A)
Lohmann, R. Sidney (A)
Roberts, Haydn P. (M)

East Cleveland

Gimmy, Norman H. (A)
Leonard, S. Edwin (A)
Lyman, Lawrence L. (A)

Oetting, O. W. A. (M)
Shipman, Charles H. (A)
Siddall, Richard (A)

Elyria

Schwab, Charles B. (A)

Harrison

Whitehouse, Joseph E. (A)

Lakewood

Van Voorhis, M. G. (A)
Covey, Gerald G. (A)
King, M. V., Jr. (A)
Little, D. S. (A)
Marsal, P. A. (A)
Pichon, Richard S. (J)
Satterthwaite, William F. (A)
Sturevant, J. W. (A)
Thorburn, James M. (M)
Worden, Ralph P. (A)
Wright, Charles A. (A)

Marietta

Manley, Edward (A)

Minford

Allen, Alva J. (A)

Mt. Healthy

Kilgour, Charles E. (A)

New Concord

Martin, Paul E. (A)

Niles

Coleman, Robert M. (A)

Norwood

Blair, R. M. (A)

Peckham

Brown, Edwin C. (A)

Port Clinton

Anderson, G. J. C. (J)

Salem

Strawn, J. D. (A)

Sandusky

Vought, Richard J. (A)

Springfield

Randall, Harry K. (A)
Riud, T. A. (A)
Schaefer, Carl A., Jr. (A)

Toledo

Dietsch, Carl G. (A)
Foley, J. W. B. (A)
Metzinger, Herbert (A)

Uhrichsville

Mong, John R. (A)

Warren

Fleming, Edward E. (A)

Wooster

Van Niman, R. T. (J)

Wyoming

Boes, W. W. (A)
Romedio, Dominic (A)

OKLAHOMA

Chelsea
Jones, V. L. (A)

Fort Sill

Sawbridge, Ben M. (A)

Oklahoma City

Challenger, Ansel (A)
Cole, Roy H. (A)
Conce, E. B. (A)
Gilkey, Jay E. (A)
Gordon, Earl P. (A)
Phillips, James H. (A)
Wallace, David R. (A)

Shawnee

Montgomery, L. E. (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, Leo L. (A)

Portland
Clark, G. W. (A)
Dacy, Arthur O. (A)
Johnson, I. W. (A)
Last, George O. (A)

PENNSYLVANIA

Adelia
Woodward, Bruce J. (A)

Aldan
Earle, Ralph P. (A)

Allentown
Claus, Fred W. (A)
Hardner, Francis J. (A)

Altoona
Aughenbaugh, William K. (A)
Douglas, Earl C. (A)

Ardmore
Hayes, R. S. (A)
Lackland, Ernest T. (A)
Wilkinson, Gordon O. (A)
Worrell, Howard S. (A)

Avalon
Todd, William O. (A)

Dala-Cynwyd
Croft, Samuel H. (A)

Bellevue
Donbar, C. Floyd (A)
O'Shea, Joseph G. (J)

Berwyn
Secley, S. W. (A)
Friend, Halton H. (A)

Bethlehem
Leasig, Linwood G. (A)
Maylott, Carleton F. (A)
Shuhart, John H. (A)
Webb, J. S. (A)

Boyetown
Venske, Herbert F. (A)

Bradford
Francis, Thomas C. (A)

Bryn Mawr
Tuttle, William N. (A)

Charleroi
Kelso, Herbert F. (A)

Chester
Rapagnani, Peter A. (A)

Connellsville
Cooper, R. S. (A)
Craig, Jack (J)
Sly, Edward E. (A)

Cresson
Meckley, Raymond C. (A)

Curwensville
Bennington, R. F. (A)

Darby
Knight, W. W. (A)

Drexel Hill
Willard, Joseph M. (A)

Easton
Laughlin, John J. (A)

East Pittsburgh
Beers, G. Lisle (A)
Chubb, L. Warrington (M)
Conrad, Frank (F)
Kidd, J. William (A)

Kintner, S. M. (F)
Landon, Vernon D. (A)
Sutherland, Leo (A)

East Plymouth
Budenkaye, Anthony (A)

Edgewood
Burnside, Carrol J. (A)
Haak, A. H. (A)
Lewis, L. V. (A)
McCullough, F. S. (M)

Emporium
Rishell, George L. (A)

Erie
Richardson, A. H. (A)
Clark, Edward L. (A)

Etna Br.
Johnstone, R. S. (A)

Germantown
Ballantine, Stuart (F)
Bromley, John E., Jr. (A)
Pitts, C. D. (A)

Gettysburg
Baker, H. W. (A)
Duttera, William S. (J)

Glassport
Hertz, Stanton S. (A)

Glenside
Griffith, Charles H. (A)
Whitaker, John C. (A)

Greensburg
Hawk, William K. (A)

Harrisburg
Beachley, Vance E. (A)
Gardner, W. L., Jr. (A)
Grim, Clair R. (A)
Mummert, Russell E. (J)
Novinger, Earl M. (A)
Peffer, Ralph M. (A)
Sawyer, Charles N. (A)
Schwanger, Robert M. (A)
Sours, M. D. (A)
Steiger, Charles H. (A)
Stromfels, S. H. (A)
Walanka, M. R. (A)

Hazleton
Cornwell, L. B. (A)

Johnstown
Hanson, Herbert (A)
Reid, A. J. (A)

Kingston
Brown, Ralph M. (A)

Lancaster
Feagley, Charles W., Jr. (A)
Gaitner, J. R. (A)
Heseltun, Charles C. (A)
Mathiot, J. E. (A)
Stauffer, J. Luke (A)

Lansdowne
Kimball, G. W. (A)

Lehighton
Butler, Harry F. (A)

Leater
Causse, Roger D. (J)

Manheim
Hess, Ralph L. (J)

Matamoras
Willers, Theodore H., Sr. (A)

Media
Delbert, Simon, Jr. (A)

Meirose Park
Drueding, Albert J. (A)

Millvale
Ballantine, Richard T. (J)

PENNSYLVANIA (Continued)

Monessen
Churcrka, Charles (A)

Mt. Carmel
Gross, Benjamin F. (A)

Nanticoke
Brader, Norwood H. (A)

Narberth
Kaerber, Clarence R. (A)
Rafferty, F. A. (M)

New Castle
Martin, Norman A. (A)

New Kensington
Clowes, Robert T. (J)

Norristown
Hausmann, Ernest O. (J)
Place, Samuel W. (A)
Rue, William F. (A)
Sands, William F. (A)

North Wales
Hendricks, Clarence B. (A)

Oil City
Hahn, Samuel L. (A)

Overbrook
Closson, H. B., Jr. (A)

Parnassus
Armstrong, R. M. (A)
McKinley, J. G. (A)

Philadelphia
Apker, Charles L. (A)
Arnold, John P. (A)
Babeock, Levis C. (A)
Bartlet, Millard C. (A)
Benner, Harold S. (A)
Benson, Thomas W. (A)
Brandt, William A. (A)
Brown, Henry J. (A)
Brown, H. Wilber (A)
Brown, William L. (A)
Bruck, Samuel (J)
Burgess, Edward R. (A)
Burnside, D. G. (A)
Cain, Robert E. (A)
Compton, Robin D. (J)
Deal, Harmon B. (A)
Doyle, E. D. (A)
Dreyer, John F., Jr. (A)
Eaton, George W., Jr. (A)
Eby, H. H. (A)
Eby, John B. (A)
Eckert, Edward J. (A)
Ehret, Cornelius D. (F)
Ellis, William G. (M)
Etkin, Harry (A)
Fenton, Almon N. (A)
Fisher, Roy S. (A)
Fithian, William S. (A)
Fossott, Fred E. (A)
Freedman, H. J. (A)
Frigar, John, 3rd. (A)
Gengenbach, Albert W. (J)
Godsho, Albert P. (A)
Griffith, M. H. (A)
Gruendstein, Philip (A)
Holland, Walter E. (M)
Holtziser, Ralph (A)
Hutchinson, S. J., Jr. (A)
Karcher, Donald (J)
Kearney, William A. (J)
Keast, Philip M. (A)
Keller, Paul A. (A)
Kenrick, Gleason W. (A)
Kloss, F. W. (A)
MacFadden, Willford C. (A)
MacNabb, Vernon C. (A)
MacHugh, William L. (A)
Mageoch, Yale (A)
Mayers, Harvey F. (J)

Mazik, John, Jr. (A)
McClain, Russell (A)
McDowell, Albert P., Jr. (A)
McIver, William R. (A)
Merkel, Henry F. (A)
Mevius, John C. (J)
Miller, Charles C. (A)
Miller, John M. (F)
Mouradian, H. (A)
Murri, Joseph (A)
Nadig, Stanton E. (A)
Neutra, Benjamin B. (A)
Nichols, J. J. (A)
Peyton, Charles J. (J)
Reeb, Alfred (A)
Saunders, William P. (A)
Schulmerich, G. J. (A)
Schumacher, J. G. (A)
Seaman, John C. M. (A)
Sirms, Wiswald J. (A)
Snyder, Richard L. (A)
Stewart, George (A)
Stoudt, John P. (A)
Tarsian, Sarkes (A)
Thompson, Roland F. (A)
Tindel, Charles G. (A)
Traugott, Paul (A)
Trinkle, W. S. (A)
Trump, William H. (A)
Tuska, C. D. (A)
Tuttle, E. B. (A)
Van Horn, J. C. (M)
Van Housen, C. H. (A)
Weyl, Charles N. (M)
Wilson, Alexander T. (A)
Wockey, Peter F. (J)
Wolf, Clarence (J)
Woodling, C. E. (A)

Phoenixville
Babeock, Wallace C. (A)

Pittsburgh
Armor, James C. (A)
Baumgardner, Frank A. (A)
Braford, Charles P. (A)
Buehl, Louis H. (A)
Buzsard, A. Joel (A)
Carothers, W. D. M. (A)
Chambers, J. O. (A)
Clark, Clarence M. (A)
Cruikshank, Omar T. (A)
Davis, R. L. (A)
Dill, George C. (A)
Forbes, Henry C. (A)
Forstall, Edward L. (A)
Gorham, Robert C. (A)
Anderson, Thure C. (A)
Greenlade, G. R. (A)
Griffith, R. T. (A)
Johnston Allen T. (A)
Joller, Casper R. (A)
Lasich, Branko (A)
McElroy, W. R. (A)
Molk, F. T. (A)
Prager, Joseph W. (J)
Pulley, Lester A. (A)
Shafer, William L. (A)
Shepherd, E. L. (A)
Sparr, Harry J. (A)
Shuey, Paul F. (A)
Staego, Stephen A. (A)
Terven, Lewis A. (M)
Thomas, William K. (A)
Underhill, Chester H. (A)
Wensley, Roy J. (A)
Westervelt, Frederick B. (A)
Wiesmann, Edward T. (J)
Wiggin, Parker E. (A)

Prompton
Stephens, William H. (J)

Punxsutawney
Bowser, Jacob W. (A)

PENNSYLVANIA (Continued)

Reading
Albert, William V. (A)
Kissinger, J. Herbert (A)
Stoudt, Harold A. (J)

Royersford
Freed, R. E. (A)

Scranton
Dolph, Stanley E. (A)
Graf, Joseph J. (M)
Gager, F. Malcolm (A)
Irving, Ira M. (A)
Stevens, Wilbur C. (A)
Witkowski, Joseph F. (A)

Sharon
Rankin, Samuel A. (A)

Sharon Hill
Irean, A. E. (A)

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

Springdale
Stanier, Donald M. (A)

State College
Goodie, Kenneth H. (A)

Stonehurst
Borkow, A. L., Jr. (A)

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

Sunbury
Smith, Guy (J)

Swarthmore
Fussell, Lewis (A)

Swatara
Cassady, P. H. (A)

Swissvale
Hewitt, C. Tefft (A)
Marshall, James J. (A)
Nicholson, F. H. (A)
Roess, Harold (M)

Temple
Stanton, R. E. (A)

Upper Darby
Dudley, D. Clinton (A)
Frazier, Howard S. (A)
Shafer, Albert G. (A)
Sharpless, A. Roberts (A)
Chamberlain, N. M. (A)

Warren
Gruninger, John E. (J)

Washington
May, Samuel (A)
Spriggs, Lucian A. (A)

Waynesburg
Kappes, Albert J. (A)

West Philadelphia
Stover, Wilmer A. (A)
Knoll, Lloyd M. (M)
Logan, William S. (A)

Wilkes Barre
Paessler, Robert T. (A)
Shuster, E. F. (J)
Stenger, J. H. (A)
Warner, Barney H. (J)

Wilkesburg
Barnes, T. Dana (A)
Batsel, M. C. (F)
Kolsch, Elmer G. (A)
Boddie, Clarence A. (A)
Brindley, William E. (A)
Cunningham, Thomas D. (A)
Dalzell, C. W. (A)
Ellert, Charles A. (A)
Gries, W. Karl (A)

Horn, Charles W. (A)
Irving, Herbert W. (A)
Johns, F. J. (A)
Koch, W. R. (A)
Mag, Anthony (A)
McCall, Keith E. (A)
Treuant, Virgil E. (A)
Thompson, Max F. (A)

Williamsport
Dickert, James E. (A)

Willow Grove
Robinson, Harris A. (J)

York
Gemmill, Wilbur E. (A)
Lever, P. R. E. (A)
Gottlieb, Morris (A)
Overmiller, Clair M. (A)
Stewart, James W. (A)
Weigel, Richard C. (A)

Yeadon
MacNicholl, Arthur J. (J)

Zellenople
Bassler, Sherman G. (J)

RHODE ISLAND

Auburn
Davis, Charles E. (A)

Eden Park
Cumerford, Arthur S. (A)

Edgewood
Massie, Walter W. (M)

Kingston
Turner, Rufus P. (J)

Wakefield
Dow, Harold C. (A)

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

Providence
Cote, Omer E. (A)
MacNaughton, A. K. (A)
Putnam, J. P. (A)
St. Laurent, Herbert (A)
Shaw, Frederick (A)

Thornton
Grain, Everard B. (A)

Woonsocket
Teachman, Alfred E. (A)

SOUTH CAROLINA

Anderson
Mitchell, John A. (A)

Charleston
Zeigler, T. W. (A)

Clemson College
Garrison, Paul J. (A)

Greenville
Bangs, Philip C. (A)

SOUTH DAKOTA

Brookings
Crothers, H. M. (A)

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

Vermillion
Brackett, Richard T. (A)

TENNESSEE

Chattanooga
George, E. E. (A)
Thomas, Norman A. (A)

Dayton
Moss, W. Hall (A)

TENNESSEE (Continued)

La Grange
Sims, James W. (A)

Nashville
Montgomery, L. H., Jr. (A)
Parkes, T. L. (A)

TEXAS

Albany
Codrington, Jerome H. (J)
Jones, F. Burton (J)

Angleton
Sweeney, Carey P. (A)

Bastrop
Barrow, Lemuel T. (A)

Beaumont
Johnson, Charles A. (A)
Trevy, C. B. (A)

Beeville
Hall, H. W. (A)

Brownsville
De Bardeleben, John F. (A)

Cedar Hill
Wilson, D. V. (A)

College Station
Yates, Clarence C. (A)

Dallas
Braden, Loise O. (A)
Corry, Hal F. (A)
Crabtree, Alfred E. (A)
Freickert, Carl A. (A)
Flynn, Roy M. (A)
Gaines, James B. (A)
Glass, Robert Z. (A)
Honnell, Pierre Marcel (J)
Hull, B. D. (A)
Lawther, H. P., Jr. (A)
Lewis, William S. (A)
Parker, Ray D. (A)
Sheffield, H. M. (A)
Smith, Thomas F. (A)
Sternberg, F. B. (A)
Weedfall, William W. (A)
White, Newell N. (A)

Delcon
Nance, Maurice L. (J)

Denton
Fain, Edgar A. (A)

Eagle Pass
Dockendorf, Joseph P. (J)

El Paso
Kitchens, William F. (A)
Morris, George W. (A)

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

Galveston
Dickey, J. W. (A)
Hughes, K. E. (A)

Greenville
Tull, Milton G. (A)

Harper
Hopf, Max H. (A)

Houston
Austin, Francis M. (A)
Chinski, G. R. (A)
Dupree, E. M. (M)
Hoskins, Laban A. (A)
McDermott, Eugene (A)
Patchen, N. A. (A)
Ricker, Norman H. (A)
Ritzau, K. (A)
Wheeler, H. (J)
Zimmerman, G. E. (A)

Laredo
Otal, Carlos, Jr. (J)

Lubbock
Cathy, Roby Lee (A)

Lufkin
Hackney, V. C. (A)

Mercedes
Schmitter, Roy M. (A)

Palm
Machotka, Miroslav (J)

Pampa
Groves, Wayland M. (A)
Thurmond, Vester H. (J)

Plano
Hayes, Howard D. (A)

Ranger
Stone, C. D. (A)

Rockland
Wilson, S. Earle (A)

Rowena
Machotka, Slavomir (J)

San Antonio
Bridge, Robert B. (A)
Cunningham, E. H. (A)
Kush, Fred W. (A)
McShane, Joe B. (A)
Rayburn, Geoffrey, D. (A)
Teague, T. T. (M)
Wall, Leavell D. (A)

San Benito
Graver, Fred E. (A)

South San Antonio
Doehne, Eugene C. (J)

Tyler
Daniel, Roy G. (A)
Doane, E. M. (A)

Waco
Jackson, Frank P. (A)

UTAH

Cedar City
Adams, Robert C. (A)

Eureka
Manson, Donald L. (A)

Murray
Smith, Edwin W. (A)

Salt Lake City
Johnson, Art (A)
Lasky, Philip G. (J)
Yeates, E. Leroy (A)

VERMONT

Northfield
Howes, Douglas E. (A)

Waitsfield
Farr, Alton E. (A)

VIRGINIA

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

Blacksburg
Martin, C. O. (A)

Cape Henry
Remmlin, C. D. (J)

Clarendon
Looney, Don B. (A)

Dahlgren
Chamberlin, Robert R. (A)

Danville
Clarke, Allen S. (A)

Hampton
Fairbanks, Edmund U. (A)
Culver, C. C. (M)

VIRGINIA (Continued)

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

Petersburg
Carr, Raymond (A)

Portsmouth
Baart, J. C. (A)

Richmond
Selph, Orris M. (A)

Roanoke
Maddox, Francis E. (A)

WASHINGTON

Auburn
Nagata, Charles N. (A)

Bremerton
Bousson, Herbert H. (M)
Rowe, V. G. (A)
Wilson, George F. (A)

Camp Lewis
Shaw, Robert M. (A)

Centralia
Jenkins, L. A. (J)

College Place
Kretchmar, G. G. (A)

Everett
Sands, Leo G. (J)

Gig Harbor
Berkheimer, R. H. (A)

Longview
Trotter, Clarence A. (A)

Puget Sound
Robinson, S. S. (F)

Pullman
Sloan, David H. (A)

Richmond Highlands
Melang, Bjorn L. (A)
Walker, Robert M. (A)

Seattle
Ackerley, James (A)
Agner, George M. (A)
Bach, Roy O. (A)
Blom, Reuben J. (A)
Bolstead, Archie L. (A)
Burleigh, John A. (A)
Deardorff, Ralph W. (A)
Demuth, Orin A. (A)
Dow, Jennings B. (M)
Eastman, Austin V. (A)
Eager, Robert H. (A)
Hill, John H. (A)
Hurwitz, S. B. (A)
Iverson, I. Vee (A)
Kleist, Walter A. (A)
Kraft, Vincent I. (A)
Mackay, Warren S. (A)
Mason, Howard F. (A)
Renfro, H. E. (A)
Rowak, C. T. (A)
Simpson, Frederick G. (F)
Tolmie, J. R. (A)
Williams, Charles E. (M)
Willson, Abner H. (A)
Wilson, Robert B. (A)
Wynne, W. M. A. (A)

Spokane
Drobig, Leo (A)
Eberly, Austin B. (A)
MacLean, T. Wendell (A)
Paulson, Clarence I. (A)
Wimmer, Joseph (A)

Tacoma
Evans, Leon R. (A)
Haymond, Carl E. (A)
Miller, George C. (A)

Reiss, David M. (A)
White, Kenneth E. (J)

Wenatchee
Lanphere, Merle (A)

Yakima
Hegen, B. W. R. (A)

WISCONSIN

Antigo
Matthias, Lynn H. (A)

Black River Falls
Gebhardt, Paul B. (A)

Coloma
Curran, G. W. (A)

Dodgeville
McCallem, A. M. (A)

Fond du Lac
Kessler, P. W. (A)

Hortonville
Ponto, A. E. (A)

La Crosse
Leoman, Alvin (J)
Trumble, L. A. (A)
Van Loan, Cullen G. (A)

Lodi
Evert, W. E. (A)

Madison
Aiken, Charles B. P. (A)
Austin, Otto C. (A)
Bennett, Edward (F)
Evans, Herbert P. (A)
Hoffman, W. Hollis (A)
Holman, Henry (J)
Koehler, Glenn (A)
Martin, T. J. (A)
Miller, Burton F. (A)
Peters, Leo J. (A)
Schnell, Fred H. (M)
Terry, Earle M. (M)
Wetzel, Joseph A. (A)
Zurian, P. D. (A)

Manitowoc
Frish, B. F. (J)

Milwaukee
Almes, William E. (A)
Bogenberger, John, Jr. (A)
Carter, Otis H. (J)
Cobb, Everett (J)
Cordeas, E. L. (A)
Davis, Chester L. (M)
Do Land, Robert E. (A)
Gabriel, Arnold C. (A)
Gainer, William P. (J)
Hanson, Bernard P. (A)
Heim, Carl (A)
Hillegas-Baird, L. S. (A)
Hiller, Nicolai H., Jr. (A)
Holst, Ernst W. (A)
Hovgaard, Olo M. (M)
Kaetel, Herbert C. (J)
Kasmierowski, J. J. (A)
Kelly, D. S. W. (A)
Kuenne, K. R. (A)
Lawton, Harvey B. (A)
Lighty, Russell D. (A)
Luecker, Fred W., Jr. (A)
Manney, G. C. (A)
Meyer, John M. (J)
Neu, Sidney (A)
Pfeifer, Joseph W. (A)
Richardson, M. S. (A)
Ritter, Ralph B. (A)
Russell, Murray (A)
Scholten, Charles H. (J)
Seibel, Donald E. (A)
Simon, Arthur (A)
Snead, Sam (A)
Stockle, Erwin R. (M)

WISCONSIN (Continued)

Milwaukee (Continued)
Thomas, Morris W. (A)
Toplinski, Leo J. (A)
Vaughn, F. A. (A)
Wareing, Herbert F. (A)
Welch, Clifford (J)
Woodward, G. E., Jr. (J)

Oshkosh
Shambeau, W. R. (A)

Port Washington
Boerner, T. J. (A)

Potosi
Roser, Clarence O. (J)

Racine
Foster, R. C. (A)
Host, Raymond H. (A)
Perry, William N. (A)

Sheboygan
Pfeiler, L. F. (A)

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

Superior
Bridges, W. C. (A)

Waukesha
Rohwer, Paul C. (A)

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

West Allis
Schunck, F. D. (A)

WEST VIRGINIA

Charleston
Morgan, J. T. (A)

Chester
Faudree, R. F. (A)

Clarksburg
Chorpening, George B. (A)

Morgantown
Colwell, Robert C. (A)

Wheeling
Pence, Samuel Edward (A)
Stroebel, John C., Jr. (M)
Weimer, Earl W. (A)

WYOMING

Casper
Hood, Norman R. (A)
Martin, Donald E. (A)

Laramie
Walker, G. De Forest (A)

ALASKA

Stephens, Fred H. (A)
Hannon, John P. (A)
Woolverton, R. B. (F)
Maki, George J. (A)

CANAL ZONE

Bullock, G. D. (A)
Karr, Henry P. (A)
Lyman, Reginald P. (M)
Young, John W. (A)
Potest, Daniel P. (A)

HAWAII

Abbott, Walter (A)
Balch, J. H. (M)
Borthwick, James H. (A)
Finter, C. V. (A)
Frederecks, John E. (A)
Janitschke, E. O. (A)
Schaefer, Carl T. (A)
White, Edwin Leo (A)

PHILIPPINE ISLANDS

Bender, Louis B. (M)
Hall, Harry I. (A)
Lara, Albino (A)
Nance, Curtis H. (M)
Novotney, H. J. (A)
Olivares, J. E. (A)
Rau, David S. (A)
Smith, J. H. (A)

PORTO RICO

Agusty, J. (A)
Mayer, Everett W. (A)
Schell, Richard, Jr. (A)

CANADA

ALBERTA
Laurie, William L. (A)
Rice, G. (A)

BRITISH COLUMBIA
Bartholomew, F. J. (A)
Barclay, Hugh N. (A)
Benson, John P. (A)
Claringbull, D. (A)
Deacon, Alan I. (A)
Edwards, Ernest P. (A)
Filtness, A. W. (A)
Gilbert, George (A)
Hawkins, Leslie S. (M)
Hilton, F. B. C. (A)
Irvine, B. (A)
Irving, Emmanuel (J)
Lapham, James P. (A)
Marriott, John S. (A)
Sawford, Frank, Jr. (A)
Way, Charles W. (A)
West, Horace E. (J)

MANITOBA

Bishop, E. F. (A)
Leitch, D. J. H. (J)
Mills, Gilbert H. (A)
Salton, Lynn V. (M)

NEW BRUNSWICK

McCormack, E. F. (A)
Mason, Arthur Wellesley (A)
Wright, F. Gordon (M)
Vaughan, Frank P. (A)

NORTHWEST TERRITORY

Cluff, H. D. (A)
Hastings, R. S. (A)

NOVA SCOTIA

Cusack, Sidney C. (A)
Starr, C. H. (A)
Sutherland, Alexander (A)
Wood, William (A)

ONTARIO

Ainsworth, A. L. (A)
Barber, Walter G. (A)
Baldon, Warren E. (A)
Baldwin, G. (A)
Baldwin, Arthur V. (A)
Barrow, Frederick A. (A)
Bayly, B. De F. (A)
Brown, Harry S. (A)
Brown, Wilford H. (A)
Burke, Joseph L. (A)
Carment, James M. (A)
Caton, William A. (A)
Chapman, Edmund V. (A)
Choat, William F. (A)
Cooper, Ashton B. (A)
Dalton, F. K. (M)
De Grave, Claude (A)
Dresser, Carl C. (A)
Edwards, C. P. (F)
Emes, Karl C. (A)
Ferguson, Arthur F. (A)
Fowler, Walter D. (A)

ONTARIO (Continued)

Gaby, Frederick A. (A)
Galbraith, R. A. H. (A)
Geldert, G. M. (A)
Gowan, Frank S. (A)
Gowan, Hubert S. (A)
Grant, Eric A. (J)
Hackbusch, Ralph A. (A)
Habel, Charles T. (A)
Henderson, J. P. (M)
Hepburn, Dugald (M)
Heywood, John L. (A)
Hodsoll, Martin (A)
Hughes, Peter (A)
Hunter, Alexander (J)
Hutton, George (A)
Jeasop, F. R. (A)
Jones, Stephen M. (A)
Kelterborn, W. H. (A)
Knapman, Jack (J)
Langford, C. H. (A)
Lee, S. A. (A)
Leslie, John M. (A)
Linnell, Alfred P. (A)
Lowry, Charles A. (A)
MacKeen, R. T. (A)
Marconi, F. William (A)
Matheson, Norman J. (A)
McAleney, Henry V. (A)
McClain, Gordon W. (A)
McCullagh, Karl G. (A)
McMillan, Donald B. (J)
McMurtry, Cyril A. W. (A)
McWatters, John J. (A)
McWatters, Robert S. (A)
Meredith, C. C. (A)
Mills, Thomas A. (A)
Mitchell, L. W. (J)
Montagnes, H. (J)
Moale, R. F. (A)
Mott, Harold E. (A)
Nash, James C. (A)
Northover, Harold W. (A)
Olding, Norman R. (A)
Oxley, Allan B. (A)
Paisley, Stewart R. (A)
Parsons, J. B. (A)
Patience, A. Melbourne (M)
Pipe, Gordon E. (A)
Potter, Robert C. (J)
Pounnett, F. H. R. (A)
Price, Roland J. C. (J)
Relyea, John D. (M)
Rice, Maurice G. (A)
Richardson, Charles L. (M)
Robertson, J. J. C. (A)
Rogers, Edward S. (M)
Rose, Sidney (A)
Rosebrugh, Thomas R. (A)
Rothera, W. F. (J)
Ruse, Arthur (A)
Rush, W. A. (F)
Russell, A. H. K. (A)
Scott, Arthur L. (A)
Smith, Arthur (A)
Smith, Frederick F. (A)
Smith, Victor G. (A)
Soucy, Chester I. (A)
Steel, W. Arthur (M)
Taber, Harold E. (A)
Thompson, Milton L. (A)
Thomson, J. M. (A)
Wallace, J. M. (A)
Walsh, H. E. (A)
Weaver, William E. (A)
Whitmore, Walter R. (A)
Wilkinson, Allan E. (A)
Williams, John C. (A)
Wilson, F. Clinton (A)
Woolner, Elmore G. (A)
Young, Gordon N. (A)
Young, Hugh A. (A)

QUEBEC

Acton, Edward H. (A)
Blais, Alphy L. (A)
Conroy, Joseph M. (A)
Cooper, Samuel J. (A)
Fenwick, James R. (A)
Forward, Willis (J)
Goldin, Hyman C. (A)
Hodgson, Edward (A)
Moore, William H. (J)
Mauro, Oswald G. (M)
McWilliam, E. A. (A)
Mead, Ernest J. (A)
Mullin, James W. (M)
Nelles, D. H. (A)
North, J. Terry (A)
Payne, L. Stanley (M)
Ratchford, William J. (A)
Robb, Robert J. (A)
Rogers, Harold A. (A)
Runciman, Arthur S. (A)
Short, H. M. (M)
Smith, F. A. (A)
Southam, W. G. (J)
Spencer, L. (M)
Thompson, John H. (A)
Yennes, H. J. (M)
Wade, David (J)
Wilson, Clifford A. (A)
Zahn, Gilbert L. (A)

SASKATCHEWAN

Hooper, A. W. (A)
McKinnon, Clifford J. (J)
Paine, Harold L. (A)
Parker, Samuel R. (A)

YUKON

Underwood, Clifford (A)

BRITISH ISLES

ENGLAND

Addey, Frederick (F)
Adams, Frank S. (A)
Agate, C. S. (A)
Albiston, W. A. (A)
Allen, C. G. (A)
Allen, J. T. (A)
Allinson, C. P. (A)
Alway, Edwin J. (A)
Andrews, W. A. (M)
Appleton, Edward V. (A)
Appleton, William A. (M)
Ashwin, C. W. H. (A)
Atkinson, C. Creawick (M)
Atkinson, C. T. (A)
Axten, Bernard J. (A)
Bagshaw, George W. (A)
Bailey, Walter H. (M)
Bainbridge-Bell, L. H. (A)
Baird, Frederick (A)
Baker, George E. (A)
Baker, T. Thorne (M)
Banner, E. H. W. (A)
Barber, John W. (A)
Barber, William E. (M)
Barnett, M. A. F. (A)
Barrrell, W. Sydney (A)
Barrington, R. N. (M)
Bates, Cyril H. (A)
Benn, Harold L. (A)
Bever, A. J. M. (A)
Binyon, Basil (M)
Bond, A. E. (A)
Bowen, Harry L. (A)
Boyce, F. A. (A)
Boyle, Charles W. (M)
Brady, Edward (A)
Brown, Walter J. (M)
Bulgin, A. F. (M)
Burnham, W. W. (F)
Burrows, F. E. (A)
Carpenter, Rupert E. H. (M)

ENGLAND (Continued)

Carter, F. C. (A)
Casperd, Christopher C. (A)
Castagnoli, Gordon (A)
Caswell, Herbert (M)
Cater, Cyril E. (A)
Catt, James E. (M)
Chandler, Charles K. (A)
Clapp, B. T. (A)
Clarke, George E. (A)
Cohen, Isaac J. (A)
Cooper, J. A. J. (M)
Cooper, Walter F. (M)
Coursey, Philip R. (A)
Courtenay-Price, George (A)
Cox, C. F. (A)
Crampton, W. J. (M)
Crawford, C. G. (A)
Crewe, W. J. Turberville (M)
Curtis, Francis C. (A)
Dack, J. H. A. (A)
Dack, Allan J. S. (A)
Davis, W. H. F. (A)
Dawson, A. W. (A)
Diggle, A. J. (A)
Ditchman, William T. (M)
De Burgh, D. H. (M)
De Wardt, Robert G. (M)
Diver, Frederick G. (A)
Dowsett, H. M. (M)
Drake, George P. (J)
Duke, William H. (A)
Durrant, Reginald F. (M)
Eckeraley, P. P. (F)
Edwards, Norman F. (M)
Elwell, Cyril F. (F)
Evans, Y. W. P. (M)
Everest, A. R. (A)
Everett, Lionel E. B. (M)
Faulkner, Harry (M)
Featherstone, W. A. E. (A)
Field, H. T. F. (A)
Flagg, L. Bland (A)
Flintham, Herbert (A)
Foord, H. D. G. (M)
Forrester, Horace (A)
Gambrell, Horace W. (A)
Gee, H. T. P. (A)
Gill, A. J. (M)
Glendinning, William (A)
Glossop, Arthur C. (A)
Glover, P. F. (M)
Gray, Richard E. (A)
Green, Ernest (A)
Griffiths, W. H. F. (M)
Hall, Albert (M)
Hall, Norman (A)
Hambling, A. W. (A)
Hampson, Charles B. (A)
Hansford, R. V. (M)
Hardy, Harold (A)
Harmer, Leslie B. (A)
Harris, A. L. (M)
Harris, Percy W. (M)
Harvey, Herbert J. (A)
Hawkins, J. H. (A)
Healey, Oliver (A)
Henderson, F. A. (A)
Herd, James F. (M)
Hibberd, Reginald J. (M)
Highfield, Harold C. (A)
Hillier, John W. R. (J)
Hines, C. C. A. (A)
Hinks, G. D. (A)
Hinks, Henry J. (A)
Hinton, Norman P. (M)
Holbeach, William M. (A)
Hotine, Leslie (M)
Howse, H. A. G. (M)
Hudson, William E. B. (A)
Hughes, D. W. (A)

Hughes, Lionel J. (A)
Hull, W. J. H. (A)
Ingham, Frank (A)
Irving, Donald H. (A)
Ison, W. (A)
James, William (A)
Jarrett, Cyril E. (A)
Jeffery, Jack H. (A)
Johnston, George A. (J)
Jones, A. B. (A)
Jones, Clifford (A)
Jones, F. E. B. (A)
Joseph, J. (M)
Kier, John (M)
King, Harrio J. (M)
Kirke, H. L. (M)
Klein, R. H. (M)
Knight, Sidney G. (A)
Kynaston, B. H. J. (A)
Ladner, A. W. (A)
Lamb, William H. (A)
Lance, Thomas M. C. (A)
Lane, Reginald C. (A)
Lassman, H. H. (A)
Leathes, W. H. B. De M. (A)
Lee, A. G. (M)
Lemon, Cecil G. (A)
Lequeux, William (M)
Litchfield, Gordon A. (A)
Littledale, A. F. (A)
Lovett, Alfred M. (A)
Lyle, Herbert B. (A)
Lyons, C. L. (M)
MacKenzie, D. G. (J)
Maddocks, W. Arthur (A)
Male, Samuel C. (A)
Mansell, L. H. (M)
Mansfield, Laurence (A)
Mareoni, G. (F)
Marshall, J. A. (A)
Matthews, Leslie A. (A)
McDonald, G. F. H. (A)
McLean, Francis C. (A)
McLeod, J. Stuart (A)
McMichael, Leslie (F)
Mendows, Cyril (A)
Mills, W. F. (A)
Minter, Robert W. (A)
Mirk, D. Blair (A)
Mockford, F. S. (A)
Morris, R. (A)
Moullin, E. B. (M)
Nancarrow, F. E. (M)
Nelson, James (M)
Newnham, Leonard E. (A)
Noden, Joseph (A)
Oates, Herbert L. (A)
O'Shaughnessy, J. J. F. (M)
Owner, John S. (A)
Pannakis, Harry (J)
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)
Pound, E. J. (A)
Rae, William T. (A)
Randall, William J. (A)
Rattee, Stanley G. (M)
Redshaw, Crispin C. (A)
Rees, David (A)
Reyner, John H. (M)
Rickard, C. E. (M)
Riddiough, John W. (A)
Ripley, Henry P. (A)

ENGLAND (Continued)

Robb, William I. (A)
 Robinson, F. H. (A)
 Rodgers, Charles (A)
 Rolla, Colin (A)
 Rowland, Edgar S. (A)
 Saltmarsh, Beatrice (A)
 Scott-Taggart, John (A)
 Shaughnessy, E. H. (M)
 Shore, Anak (A)
 Simmonds, E. J. (M)
 Simpson, A. V. (M)
 Smart, S. H. (A)
 Smith, James H. (A)
 Smith, Sidney B. (M)
 Smurtwaite, F. W. (A)
 Storry, Thomas G. (A)
 Strong, Charles E. (M)
 Sutton, W. (A)
 Swinton, A. A. C. (M)
 Tanton, J. H. (A)
 Taylor, Alfred O. (A)
 Thompson, Alfred E. (M)
 Thomas, Einion (A)
 Tiltman, R. F. (A)
 Tingey, Robert (M)
 Tomlinson, Frank (A)
 Towers, Robert (A)
 Townsend, K. D. F. (A)
 Townsland, F. T. G. (M)
 Trippier, Francis J. (A)
 Turle, Edgar H. (M)
 Turner, L. B. (A)
 Turner, Philip K. (M)
 Ullrich, E. H. (M)
 Vernon, Basil H. (A)
 Walker, Harold S. (A)
 Wallace, Alexander T. (A)
 Watson, George H. (A)
 Webb, James H. (A)
 Webb, Reginald J. (A)
 Weight, H. Aubrey (A)
 White, Herbert G. (A)
 Wicks, Frank W. (A)
 Wicks, Reginald P. (A)
 Wilkinson, Henry E. (M)
 Williams, Cecil G. (A)
 Williams, Eric (A)
 Wilson, Norman J. (A)
 Wilson, William P. (A)
 Wood, C. E. (A)
 Wood, Roy C. (A)
 Wood, Robert Henry (M)
 Woodward, P. J. (M)
 Wright, Sidney R. (A)
 Wroughton, Thomas H. (A)

IRELAND

Dunphy, Thomas O. (A)
 Ferguson, John D. (M)
 Farrell, Henry J. (A)
 Kitchen, James P. (A)
 McVeigh, James P. (A)
 Neill, Frank R. (A)

SCOTLAND

Allan, Ernest J. (A)
 Bonong, Edward (A)
 Dinadale, Alfred (A)
 Dunbar, James (A)
 Jamieson, W. E. (A)
 Knowles, J. G. (A)
 McLennan, John (A)
 Mitchell, J. Wier (A)
 Ramsay, John F. (J)
 Watt, Lewis (A)
 Wheeler, E. F. (A)

WALES

Abraham, F. X. J. (A)
 Carson, J. M. (A)
 Whale, Gordon S. (A)

AFRICA

BELGIAN CONGO

Serviou, Cecil H. (A)

EGYPT

Baroudi, Kamel S. (A)

KENYA COLONY

Ball, George F. (A)

SOUTH AFRICA

Barnett, Eric E. (A)
 Bennett, W. E. D. (A)
 Borthwick, R. J. (A)
 Chenik, Aaron (A)
 Cumming, N. D. (A)
 Dunton, Ernest W. (M)
 Jacobs, Alwyn J. (A)
 Knight, Arthur W. (A)
 Kos, S. F. (M)
 Perrow, F. A. P. (M)
 Rogers, A. H. E. (M)
 Swart, J. G. (M)
 Van der Bijl, H. J. (M)

SUDAN

Edgeworth, Kenneth E. (M)
 Williams, R. T. (M)

ASIA

BRITISH NORTH BORNEO

Wade, C. F. Newton (M)

CHINA

Chen, Shujen (A)
 Chang, Ting Chin (M)
 Chu, K. T. (A)
 Eng, David J. (A)
 Fong, George T. W. (A)
 Gee, Walter C. (A)
 Hsu, Philip H. (A)
 Kinase, M. (M)
 Lee, S. M. (A)
 Maeda, M. (A)
 Nee, Sangta (A)
 Saitow, K. (A)
 Suez, Robert K. W. (J)
 Yu, Chia Chang (A)
 Zee, Liang (A)

FEDERATED MALAY STATES

Carson, Andrew H. (A)
 Peck, G. T. (A)
 Wilkinson, Bernard (A)

INDIA

Chapman, T. J. (A)
 Cobb, Frederick A. (M)
 Harper, Edgar (M)
 Hawes, R. Nesbitt (M)
 Kantabet, S. R. (A)
 Lea, George (A)
 Sellick, A. M. (A)

JAPAN

Akutsu, Shiuji (A)
 Anazawa, Chuhei (A)
 Atsuthi, Kimpara (A)
 Hashimoto, S. (A)
 Horiguchi, Jiro (A)
 Akasaka, Toshi (A)
 Arakawa, Daitaro (A)
 Tsushima, Yonekichi (A)
 Inada, Sannosuke (M)
 Inanomi, Sueo (A)
 Ishikawa, S. (A)
 Itow, Yutaka (A)
 Kato, Y. (A)
 Kawahara, Takewo (A)
 Kuramochi, Shaju (A)
 Kusunose, Y. (A)
 Marumo, Noboru (A)
 Marumoto, Kenji (A)
 Mitsuishi, Hyde K. (A)
 Moriwaki, K. (A)
 Nakagami, T. (M)
 Nakamura, H. (A)

ASIA (Continued)

Japan (Continued)

Namba, Y. (A)
 Niwa, Y. (A)
 Sasaki, T. (A)
 Sayeki, Mitsuru (F)
 Takebayashi, K. (A)
 Terahata, Matsuuro (A)
 Ueno, Shuzo (A)
 Yagi, Hidetsugu (F)
 Yokoyama, Eitaro (M)
 Yoshida, Y. (A)
 Yoshiro, Kuroda (A)

STRAITS SETTLEMENT

George, Philip H. F. (A)

CENTRAL AMERICA

COSTA RICA

Carranza, J. J. (M)
 Bond, Joseph (A)

NICARAGUA

Bourchier, Leonard H. (M)

EUROPE

BELGIUM

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

CZECHOSLOVAKIA

Kafka, H. (A)
 Svoboda, Jaromir (M)
 Strnad, Joseph (A)

DENMARK

Christensen, Jens P. (A)
 Hellstrom, G. (A)
 Jarnak, Paul (A)
 Nyholm, Christian (A)
 Hoegard, F. (A)
 Pedersen, Martin P. (A)
 Pedersen, Peder Oluf (F)
 Poulsen, Valdemar (F)
 Schon, Carl (A)

FRANCE

Behm, Ludwig F. (A)
 Bethenod, J. F. J. (A)
 Deakin, Gerald (A)
 De Bellescize, H. J. M. (M)
 Deloraine, E. M. (M)
 De Bozas, Guy Du Bourg (A)
 Ferrie, General (F)
 Hewlett, Palmer B. (A)
 Levy, Lucien (M)
 Roosevelt, H. L. (M)

GERMANY

Barkhausen, H. (A)
 Ghoah, S. C. (A)
 Hamm, Arthur (A)
 Hausdorff, Max M. (A)
 Hofmann, A. Clemens (M)
 McClatchie, S. (A)
 Meisner, Alexander (F)
 Seibt, George (M)
 Tykociner, J. T. (M)
 Von Ardenne, M. (A)
 Wagner, Karl W. (A)
 Zenneck, J. (F)

HOLLAND

De Graaff, A. (A)
 Liebert, W. (M)
 Van der Pol, B. (M)
 Moree, W. (A)
 Rietveld, G. H. (A)
 Roorda, J., Jr. (A)
 Van der Bilt, C. L. (A)

HUNGARY

Detshy, C. F. (A)

ITALY

Raven-Hart, R. J. M. (M)

POLAND

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

PORTUGAL

Dennis, Frank L. (A)
 Tissshaw, Henry S. (M)

SPAIN

Alonso, Julio (A)
 Crespo, Jose (M)
 Cuervo, Luis S. (A)
 De Urgoiti, Ricardo M. (A)
 Escolano, Manuel (M)
 Matres, Trinidad (M)
 Moya, Miguel (A)
 Wendell, E. N. (A)
 Riu, Austin M. (A)

SWEDEN

Fransson, F. (A)
 Lemoine, A. S. (A)
 Sterky, Hakon K. A. (A)
 Velander, Edy (A)

SWITZERLAND

Anselmi, S. C. (A)

U. S. S. R. (RUSSIA)

Bashenoff, Valerian (M)
 Grzybowski, W. (A)
 Kacourine, Serge N. (A)

MEXICO

Domensain, Salvador F. (A)
 Escrich, James P. (A)
 Fernandez, M. Angel (A)
 Green, William G. (A)
 Reutha, Gustav (M)
 Sardaneta, Raymundo (A)
 Veramendi, M. (A)
 Cordova, F. B. (A)
 Ceto, Pedro N. (A)
 Cross, Harry (A)

OCEANIA

AUSTRALIA

Bearup, T. W. (M)
 Bardin, William F. (A)
 Bain, J. L. (M)
 Fisk, Ernest T. (F)
 Grace, A. (A)
 Hayman, W. G. (A)
 Jackson, Alfred C. (A)
 MacLuracan, Charles D. (A)
 McCulloch, George R. (J)
 McDonald, Arthur S. (M)
 Neve, Gordon H. (A)
 Malong, James J. (M)
 Southwell, Clifford L. (A)
 Sutherland, G. B. (A)
 Sweeney, Walter M. (M)
 Thompson, Cecil (A)

DUTCH EAST INDIES

Verdam, N. H. (M)

FRIENDLY ISLANDS

Land, J. Rodney (M)

NEW ZEALAND

Bingham, John M. (A)
 Burrell, Robert F. D. (A)
 Brent, Herbert C. (M)
 Cunningham, John (A)
 Dawson, Willfred M. (A)
 Dickson, L. R. (A)
 Ewen, L. K. (A)
 Grant, R. L. C. (J)
 Harrison, W. L. (A)
 Rees, David (A)
 Russell, Cecil R. (M)
 Salt, Gordon McB. (M)

OCEANIA (Continued)

New Zealand (Continued)
 Sangster, Ralph L. (A)
 Swain, Noel (A)
 Taylor, Conway (M)
 Tyler, George E. (A)
 Wilde, S. F. M. (A)
 Wyles, David G. (M)

SOUTH AMERICA

ARGENTINA

Hayes, George W. (A)

BRAZIL

Barreto, M. De Barros (F)
 Lacombe, Carlos G. (A)
 Santos, Anthony S. (A)
 Weeden, Edward H. (A)

CHILE

Brito, Alberto R. (M)
 Daley, Francis T. (A)

COLOMBIA

Shire, Leo E. (A)

VENEZUELA

Lugo, Francisco A. (A)

FALKLAND ISLANDS

Nethercoate, J. K. (A)

WEST INDIES

BAHAMAS

Salter, David (A)

BERMUDA

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

DOMINICAN REPUBLIC

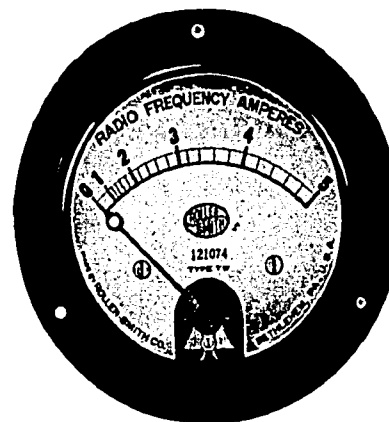
Fenty, William C. (A)

HAITI

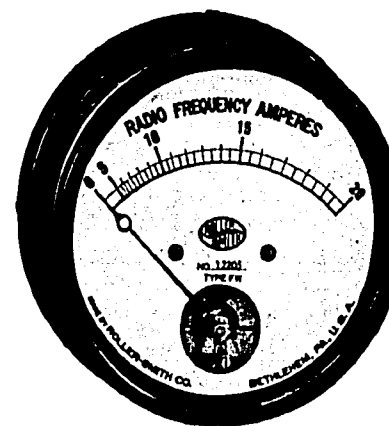
Eiler, E. E. (M)
 Mizell, M. H. (A)

CUBA

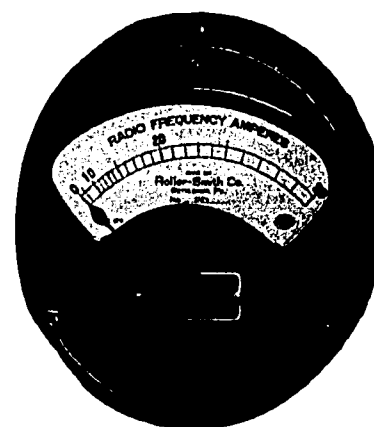
Bullard, W. R. (A)
 Hill, Earle E. (A)
 Jones, Frank H. (A)
 Lara' Jose (A)



3 1/2"



4"



7 1/2"

Roller-Smith and Radio

From the early days of radio development Roller-Smith has been one of the principal sources of supply for instruments for radio work. That broad background of experience is at your disposal. Roller-Smith has an instrument for every radio need. Send for Catalog.



*"Over thirty years' experience is
back of Roller-Smith."*



ROLLER-SMITH CO.

2134 Woolworth Bldg.

NEW YORK CITY

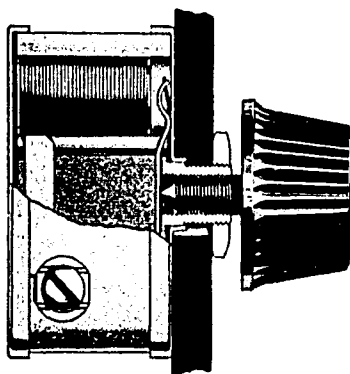
Perfect Resistors

for B-Eliminator Manufacturers

Bradleyohm-E

PERFECT VARIABLE RESISTOR

Because of its unusually wide range and accuracy of control, the Bradleyohm-E is extensively used by B-eliminator manufacturers. The resistance of the scientifically-treated discs is not affected by use or atmospheric conditions. It does not vary in service. When once the correct value is selected, it remains fixed.



Bradleyunit-A

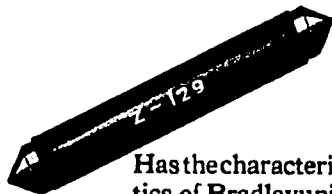
PERFECT FIXED RESISTOR



This molded resistor is baked under high pressure, and then accurately calibrated. Bradleyunits are guaranteed to be accurate within 5% of their ratings. Unaffected by temperature, moisture or age.

Bradleyunit-B

PERFECT FIXED RESISTOR



Has the characteristics of Bradleyunit-A, but is made especially for manufacturers. Made in an extremely wide range of accurately calibrated resistance values.

Write for data and prices

ALLEN-BRADLEY COMPANY
282 Greenfield Avenue, Milwaukee, Wisconsin

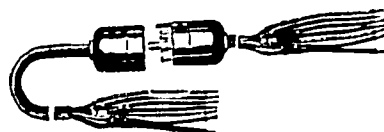
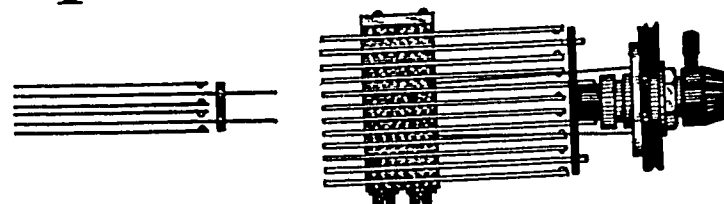
Allen-Bradley

PERFECT RADIO RESISTORS

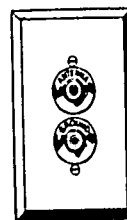
YAXLEY

APPROVED RADIO PRODUCTS

Special Switches



An unusually well made and handsome Cable Connector and Plug, for the quick and accurate connecting or disconnecting of the set and battery leads.



Radio Convenience Outlets for Battery, Ground and Antenna and Loud Speaker Connections. Fit standard switch boxes. Single plates or in several gang combinations.



Automatic Power Control switches either or both trickle charger and B eliminator. Automatic, Positive, Durable and Reliable.

Nearly every builder of radio equipment is confronted at some time or other with the need of special switches to take care of some particular requirement.

With this in view, Yaxley Switches were designed with the purpose of filling practically every radio need. With the Bracket Type Switch, shown above, most any spring arrangement from a double pole, double throw switch with six springs to a four pole, double throw switch with twelve springs is possible. Furnished as a two-position or a three-position switch as desired, either locking or non-locking.

In writing for prices on special switches, please give as much information as possible, together with sketch of spring arrangement wanted and thickness of panel.

YAXLEY MFG. CO.

9 South Clinton Street
Chicago, Illinois

Radio - Is - BETTER - With - Dry - Battery - Power



made to run
the *full* race!

ANY horse can make a good start But it takes real stamina to *finish!* ¶So it is with batteries. *Staying* power is the quality to look for—unfailing power over a long period of service. Millions prefer Burgess *Chrome* Batteries for just this reason. They hold up They *last.* ¶Next time, buy black and white striped Burgess *Chrome* Batteries. You are certain to get longer and better service for your money.

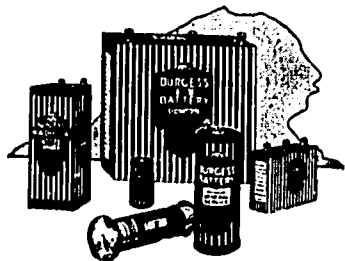
Chrome —the preserving element used in leather, metals, paints and other materials subject to wear, is also used in Burgess Batteries. It gives them unusual *staying* power. Burgess *Chrome* Batteries are patented.

Ask Any Radio Engineer

BURGESS BATTERY COMPANY

General Sales Office: CHICAGO

Canadian Factories and Offices: Niagara Falls and Winnipeg



BURGESS BATTERIES

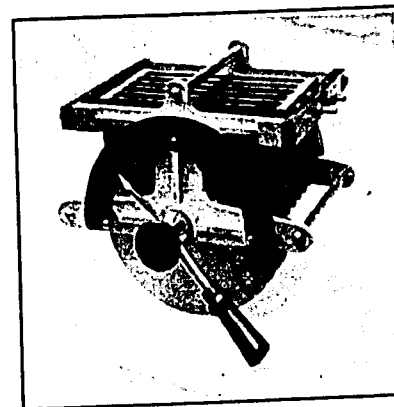
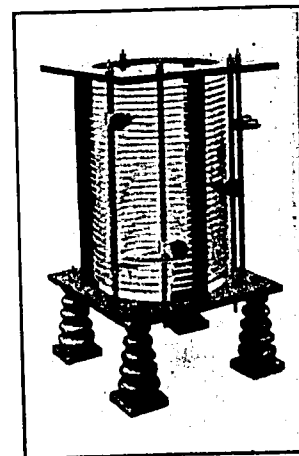
IV

To the Engineer

looking for GOOD transmitting apparatus

THE E. F. Johnson Company has furnished much equipment for broadcast and other transmitters, ranging from the smallest individual items to complete installations.

At the right is our new broadcast type inductance. Four completely adjustable contacts are available, besides connections to end turns. May be mounted vertically or horizontally on porcelain pillars supplied. SILVER PLATED for maximum R.F. conductivity. Inductance of type illustrated, 100 microhenries.



We have supplied large numbers of what we believe are the finest high voltage variable condensers made. Type B (illustrated) has 6" diameter rotor plates, type A 10"; for 8000, 12000 and 16000 volts in any reasonable capacity. Refinements include ball bearings, counterweight, locking device, handle and pointer, etched scale, etc.

We distribute at wholesale the products of many of the foremost manufacturers, including Acme (of Cambridge), Allen-Bradley, Belden, DeForest, Formica, Jewell, National Co., Thordarson, Ward-Leonard, Weston, Wireless Specialty, etc. Your inquiries and requests for quotations on regular or special apparatus will be given prompt attention.

E. F. JOHNSON COMPANY

Waseca, Minnesota

v

The Newest AmerTran Achievement

THE AMERTRAN Push-Pull Amplifier is a new completely assembled two-stage unit, containing a first stage AmerTran DeLuxe followed by AmerTran Input and Output Transformers for Power Tubes. When operated from a power source supplying sufficient voltage, (such as the new AmerTran A B C Hi-Power Box) the input to the speaker is almost perfect, and fidelity of reproduction is limited only by the ability of the speaker. Distortion, from tube harmonics and A C hum, is reduced to a minimum. The energy output to the speaker is increased, especially at the lower musical frequencies. This means greater clarity of tone at low or high volume.

The amplifier is easily connected to the detector of any good receiver, replacing its audio amplifier. It is equipped with four sockets, two for power tubes, and a four-prong and a five-prong socket in the first stage for either a standard amplifying tube of the UX-201 A type, or a UY-227 A C tube. Using the latter tube, the amplifier can be entirely A C operated.

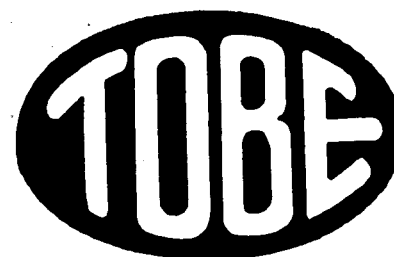
AmerTran Push-Pull Amplifier as a complete unit is licensed under patents owned or controlled by the Radio Corporation of America and must be sold complete with tubes. It is built in several types, depending on the type of power tubes preferred. Type 2 AP-10 is designed for 210 tubes and type 2 AP-71 for 171 tubes. The difference is only in the Push-Pull output transformers. List price \$60.00 without tubes.

This completely wired licensed AmerTran Push-Pull Amplifier is on display and demonstration at stores displaying the sign "Authorized AmerTran Dealer." Send for complete literature on this new AmerTran Unit.

AMERICAN TRANSFORMER COMPANY

178 Emmet Street Newark, N. J.

"Transformer Builders for over 26 Years"



**Condensers
B-Blocks
Veritas Resistors
Tipon Leaks**

*for Manufacturers of
A. C. Sets and Power Units*

Fixed condensers and resistors of permanent and scientific design and construction, made of best materials—and at reasonable prices—are required by every A. C. Radio Set and Power Unit.

Tobe Apparatus meets these requirements.

The TOBE trademark, nationally known, is a guarantee to Set and Power Unit customers, of condenser and resistor satisfaction.

Ask us for quotations.

Tobe Deutschmann Co.
Cambridge, Mass.

Control!



Radio technique is largely a matter of accurate and positive control. And the Clarostat—the standard variable resistor—has contributed its share to the forward march of radio. It has brought together the *reliability* of fixed resistance with the *convenience* of variable resistance. For that reason, the Clarostat is the accepted variable resistor in all leading radio power units, as well as in many receivers. And here are just a few suggestions:

Reception: Use the Volume Control Clarostat for controlling the plate voltage in r.f. and detector circuits. Also for obtaining micrometric control of regeneration and stabilization of r.f. circuits. Can be used as a tone control, by shunting across transformer secondary or amplifier coupling.

Power Unit: Use the Standard Clarostat for control of voltage taps, and the Heavy-Duty Clarostat for line-voltage regulation in primary circuit of power transformer. The Power Clarostat is used in A-B-C and heavy-duty power units, particularly in controlling series filaments and line voltage.

Transmission: Use the Power Clarostat for gain control and also for variable grid leak for transmitting tubes, as well as in various forms of resistance and impedance-coupled amplifiers employing real power. It can also be used in controlling voltages in various transmitting and amplifying circuits.

But be sure you get Clarostats. As the standard of variable resistance, the Clarostat is being widely copied in appearance, but hardly in performance. You can recognize the genuine Clarostat by the name stamped on the shell. Accept none other. Don't be fooled!

Write us for engineering data on various types and ranges of Clarostats. Do not hesitate to place your resistance problems before us.

American Mechanical Laboratories, Inc.

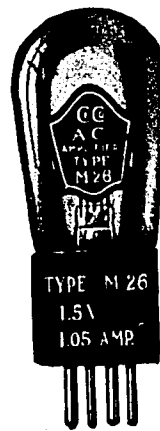


Specialists in Variable Resistors

285-7 N. Sixth St. :: Brooklyn, N. Y.

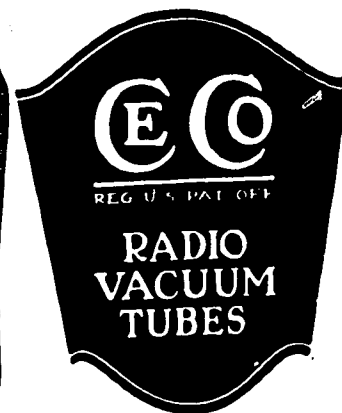
CLAROSTAT
REG. U. S. PAT. OFF.

VIII



Amplifier
Type M-26
(226)

Fil. Volts1.5
Fil. Amps.1.05
Plate Volts 90-135
Not to exceed...180
List Price\$3.00



A. C. Tubes Alternating Current

The new M-26 and N-27 tubes are tubes using raw A. C. on the Filament or Heater and can be used in any set specifying these types.

The M-26 is used in the radio and audio frequency stages and has a standard base.

The N-27, of the separate heater type is used as a detector or amplifier and has a five prong base. These tubes will give superior results and maximum useful life in any set designed to use A. C. Tubes of this type.

C. E. MFG. CO. Inc.
Providence, R. I., U.S.A.

Write our Engineering Dept.
for any information desired.



"R-81"
(281)

"CeCo" type "R-81" corresponds to UX-281 and is a half wave rectifier of high emission and long life for use in A, B or C Eliminators or Power-Packs. Made with a special process filament.

Fil. Volts7.5
Fil. Amps.1.25
A. C. Volts.....750
D. C. M/A.....110
List Price\$7.50



Detector
Type N-27
(227)

Heater Volts ...2.5
Heater Amps. ...1.75
PLATE VOLTS
As Detector.....45
As Amplifier 90-135
Not to exceed 180
List Price\$6.00



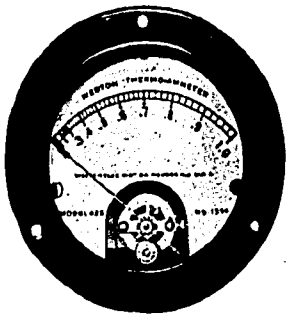
"R-80"
(280)

"CeCo" type "R-80" corresponds to UX-280 and is a full wave rectifier of high emission and long life. For use in A, B or C Eliminators or Power-Packs. Made with a special process filament.

Fil. Volts5.
Fil. Amps.2.
A. C. Volts....300
D. C. M/A.....125
List Price\$5.00

IX

Quality versus Imitation

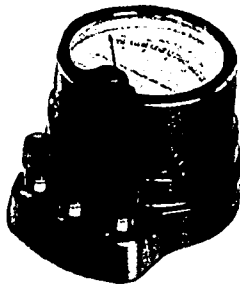


THE favorite practice of imitators is to duplicate the *appearance* of original instruments. But to duplicate their construction and performance is quite another matter. The nicety of design and workmanship of Weston Instruments is well known to radio amateurs, and it is these refinements—the hall-mark of Weston quality—which have always defied serious imitation.

The small portable and panel instruments which comprise the Weston 3¼" and 2" diameter lines furnish innumerable examples of an unparalleled experience and craftsmanship. A detailed comparison of these models with other makes reveals the inimitable construction and assembly methods which Weston employs. The long years of pioneering have brought their ultimate reward in providing the means of manufacture of the smallest instruments, of highest quality and performance, known to science.

The highest self-contained resistance, the most liberal over-load capacity, the degree of sensitivity, sustained accuracy, responsiveness, damping, protective features, etc., fully warrant and explain the universal confidence in these designs.

Furthermore, Weston methods of production provide for the sale of these instruments at moderate prices. For complete descriptions and engineering data write for Circular J.



WESTON - ELECTRICAL - INSTRUMENT - CORPORATION
589 Frelinghuysen Ave. Newark, N. J.

WESTON RADIO INSTRUMENTS

X

A resistor is known by the company it keeps

Ask any one of the companies listed below what they think of Harfield Resistors. They are but a few of the more prominent corporations who have turned to Harfield Resistors during the past year.

Stromberg-Carlson Telephone
Mfg. Co.
Crosley Radio Corporation
American Transformer Co.
Fansteel Products Co., Inc.
Martin Copeland Co., Inc.
Pacent Electric Co.
Electrical Research Laboratories

Splitdorf Elect. Co.
Western Union Telegraph Co.
Sonora Phonograph Co., Inc.
Conner-Crouse Corp.
Magnavox Corporation
Jordan-Carisch Company
Samson Electric Company

Harfield Resistors can be supplied to you as accurate as plus or minus 1 per cent—*five times more accurate* than the average resistor.

Tell us about the resistor you want and let us make up a sample for you with prices. Tapped resistors may be obtained to meet your individual need and specifications. Write us.

HARDWICK, FIELD, INC.

Builders of

Sales Dept.
100 Fifth Ave.
New York



Factory
215 Emmett St.
Newark, N. J.

XI

*"Perhaps the Best Radio Book that
ever came to this desk."*

These were the words used by the reviewer of QST, the official magazine of the American Radio Relay League, in referring to the previous Edition (the 6th) of

Robison's "Manual of Radio Telegraphy and Telephony"

It has just been revised (7th Edition), and brought up to date by Commander S. C. Hooper, U.S.N., late Radio Officer of the United States Fleet. This is the standard Navy book on radio and has been successful for twenty years; the original edition was prepared by Lieutenant (last year Admiral and Commander-in-Chief, U. S. Fleet) S. S. Robison.

Price present Edition (7th) \$5.50, postpaid.

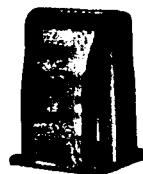
Address: SECRETARY-TREASURER, U. S. NAVAL
INSTITUTE, ANNAPOLIS, MARYLAND, U. S. A.

Every member of the Institute of Radio Engineers should read the U. S. Naval Institute PROCEEDINGS, a beautifully illustrated monthly magazine, the subscription price of which is \$5.00 per year. It has been the Navy's Forum for over half a century.

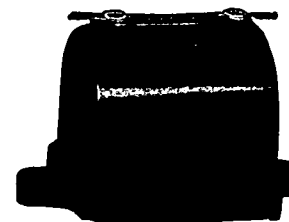
If you are "interested in the objects of the Naval Institute," founded in 1873 by Admiral David Dixon Porter, you may become an associate member and receive the magazine for a total of \$3.00, annual dues.

For further information address:

SECRETARY-TREASURER
UNITED STATES NAVAL INSTITUTE
ANNAPOLIS, MARYLAND, U. S. A.



A superior alloy-steel core Audio Frequency Transformer.



Unique R.F. Choke having but 3 or 4 u u f capacitance within the working range.

AUDIO FREQUENCY AMPLIFICATION

A complete line of transformers and chokes for broadcast transmission and reception.

POWER SUPPLY

A complete line of power transformers and chokes for "A," "B" and "C" supply to both the battery type and AC type of tubes.

RADIO FREQUENCY UNITS

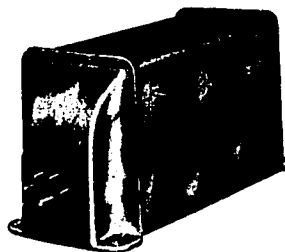
Universal Coil Forms, wound coils, and radio frequency chokes.

We solicit special problems in power supply or audio amplification.

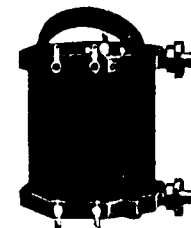
Samson Electric Co.

MANUFACTURERS SINCE 1802

Canton, Mass.

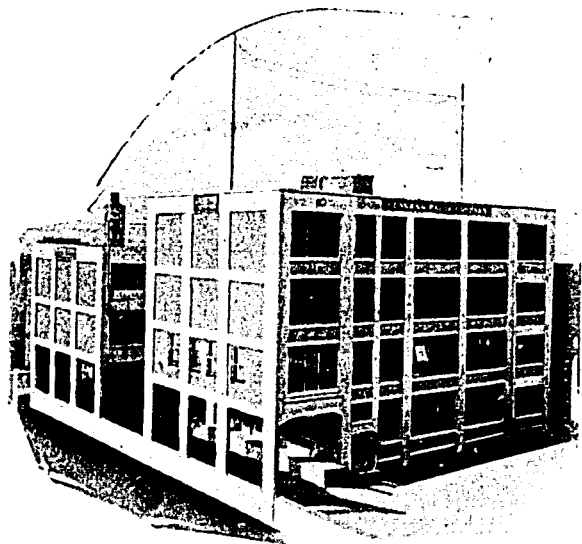


Completely encased and absolutely safe A, B and C power units in fourteen types.



Universal coil forms adaptable to tuned circuits—also for plug mounting.

FACILITIES



THE MANUFACTURE of measuring instruments and specialties requires a particular type of plant and organization. The present facilities of the General Radio Company are the result of twelve years growth and experience in the manufacture of this sort of equipment.

The modern plant, entirely new since 1924, was designed to meet the manufacturing requirements of instrument making. During the period of plant growth an engineering organization of competency and experience has also been built up.

Your problems are solicited.

Standard Instruments include: Bridges, Vacuum Tube Oscillators, Piezo Oscillators, Resistance Boxes, Transformers, Thermo Couples, Galvanometers, Attenuation Networks, Variable Capacitors, Inductors, and Resistors and Standards.

GENERAL RADIO COMPANY
Cambridge, Massachusetts

AN UNUSUAL SERVICE



The radio industry recognizes the Scovill organization as a group of skilled craftsmen offering intelligent co-operation on specific problems.

Scovill has worked with several nationally known radio set manufacturers to produce radio condensers to meet their requirements.

Our manufacturing departments have the equipment and the capacity to turn out quantities of condensers constructed and tested to meet the specifications set up.

Why not let Scovill work with you on your next condenser problem?

PRODUCTS

Made To Order
Radio Condensers—Variable and Variable Vernier
Radio Condenser Plates
Metal Stampings
Screw Machine Products
Special Machine Screws
Decorated Metal Panels
Dry Battery Nuts, Switches
Special Goods from Brass,
Bronze, Steel, Nickel Silver,
Aluminum and other metals.

Carried In Stock
Brass, Bronze and Nickel Silver
Sheet, Rod, Wire and Tubing
Standard Cap and Machine Screws
High Speed Brass Rod for Automatic Screw Machines
Etching Brass.

SCOVILL

Scovill is the name of a broad service to industry. It places acres of factories, forests of machinery, hosts of skilled workmen, metallurgists, modern laboratories and trained representatives at the disposal of those who require parts or finished products of metal. Why not see how Scovill can serve you? Call our nearest office.

SCOVILL MANUFACTURING CO.—Waterbury, Connecticut

NEW YORK BOSTON CHICAGO PROVIDENCE PHILADELPHIA CLEVELAND
SAN FRANCISCO LOS ANGELES ATLANTA CINCINNATI DETROIT
European Sales Office: 13 Korte Voorhout, THE HAGUE, HOLLAND



The Coils the thing! that makes Radio

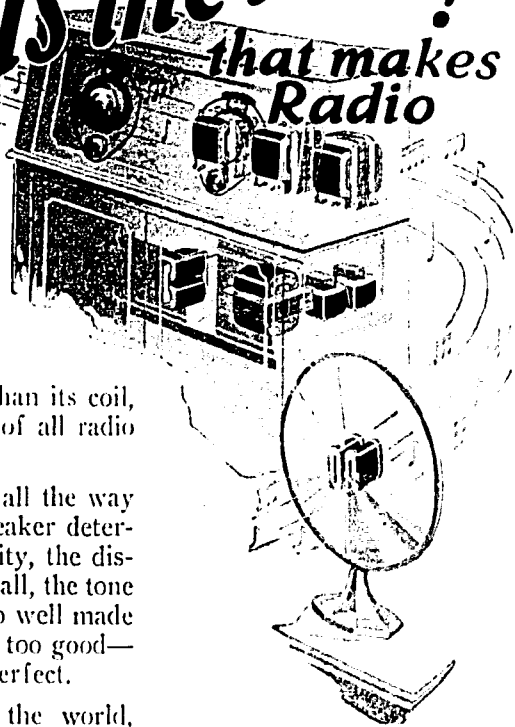
From Microphone to Loud Speaker

No radio unit is any better than its coil, for the coil is the vital part of all radio apparatus.

Coils in the microphone and all the way down the line to the loud speaker determine the volume, the selectivity, the distance, and, most important of all, the tone qualities. Coils cannot be too well made—the wire in them cannot be too good—the insulation cannot be too perfect.

The best radio apparatus in the world, made by the most successful radio manufacturers, is equipped with Dudlo layer wound coils. These manufacturers know from experience that it is *unprofitable* to attempt to wind their own coils and *unwise* to experiment on doubtful sources of supply for parts so highly specialized and so important as their coils.

By standardizing on Dudlo wire and coils, you can avoid all worry as far as these units are concerned.



Dudlo coils are wound to manufacturers' specifications. The Dudlo Engineering Laboratories are at the service of any radio manufacturer to assist in designing the proper coil for certain purposes—samples submitted without obligation.

DUDLO

DUDLO MANUFACTURING CO., FORT WAYNE, INDIANA

Division of the General Cable Corporation

56 Earl Street NEWARK, N. J. 160 North La Salle St. CHICAGO, ILL. 4153 Bingham Ave. ST. LOUIS, MO. 274 Brannan St. SAN FRANCISCO, CALIF.

XVI

Q U A R T Z

We are the only concern in Europe specializing in the production of piezo-electric quartz.

Quotation gladly sent on receipt of following information:

- A) Limits between which the frequency of the crystal must lie.
- B) Impedance of valve, and circuit diagram of proposed installation.

Quartz Oscillators, Ltd.

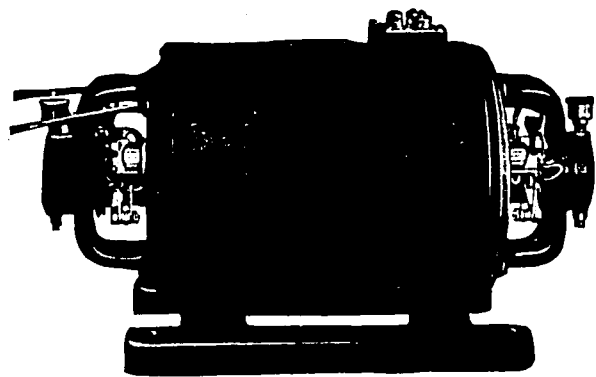
1, Lechmere Road
London, N. W. 2
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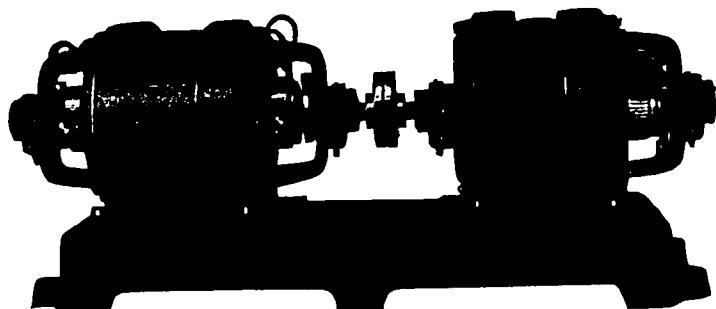
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XVII

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"ESCO" Maximum miles per watt
Power supplies for transmission.



"ESCO" has developed a line of over 100 standard 2-bearing Motor-generators for plate or filament. These include D.C., A.C., single phase and polyphase motors.



"ESCO" two and three unit sets have become the accepted standards for transmission. The "ESCO" line consists of over 200 combinations. These are covered by Bulletin 237D.

Our engineers are always willing to cooperate in the development of special sets.

"ESCO" is the pioneer in designing, developing and producing Generators, Motor-Generators, Dynamotors and Rotary Converters for all Radio purposes.

How can "ESCO" Serve You?

ELECTRIC SPECIALTY COMPANY

TRADE "ESCO" MARK

300 South Street

Stamford, Conn.

XVIII

For 1928

YOUR engineers have been working for some time on new circuits and products which you will present to the public during the next radio season.

Although it will be some time before the question of material to be purchased is settled, may we offer our services *now* to aid in the solution of problems involving resistors and rheostats.

Ward Leonard wants to work with your engineering and purchasing departments not only to make certain that you get the proper value of resistance and load capacity but also to see that you get these products in a form which will cost least and which will fit best into your production scheme.

We both will be aided materially by this plan. Your costs, production objectives and advertising schedule can then be straightened away for a truly prosperous season.

WARD LEONARD ELECTRIC CO.
 MOUNT VERNON, N. Y.

Resistor Specialists for more than 35 years

XIX

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"GREBE"

*the hall-mark of
radio excellence*

GREBE'S reputation has been earned through consistently superior construction during the past eighteen years. Each part of a Grebe set is made in the Grebe factory—slowly—carefully. So Grebe construction is sound—enduring—accurate.

The performance of the Synchrophase Seven is thus in line with Grebe's history—its superior tone, selectivity, ease of tuning are the direct result of long experience in building only quality radio apparatus.

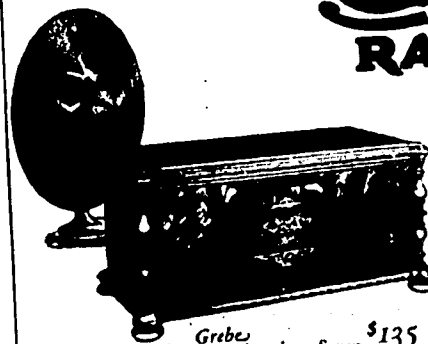
Full description of the many Grebe developments incorporated in this set will be sent on request. Or examine it at a Grebe dealer's.

A. H. Grebe & Company, Inc.
109 West 57th Street, New York City
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*Makers of
quality radio
since 1909*

*Grebe
Natural
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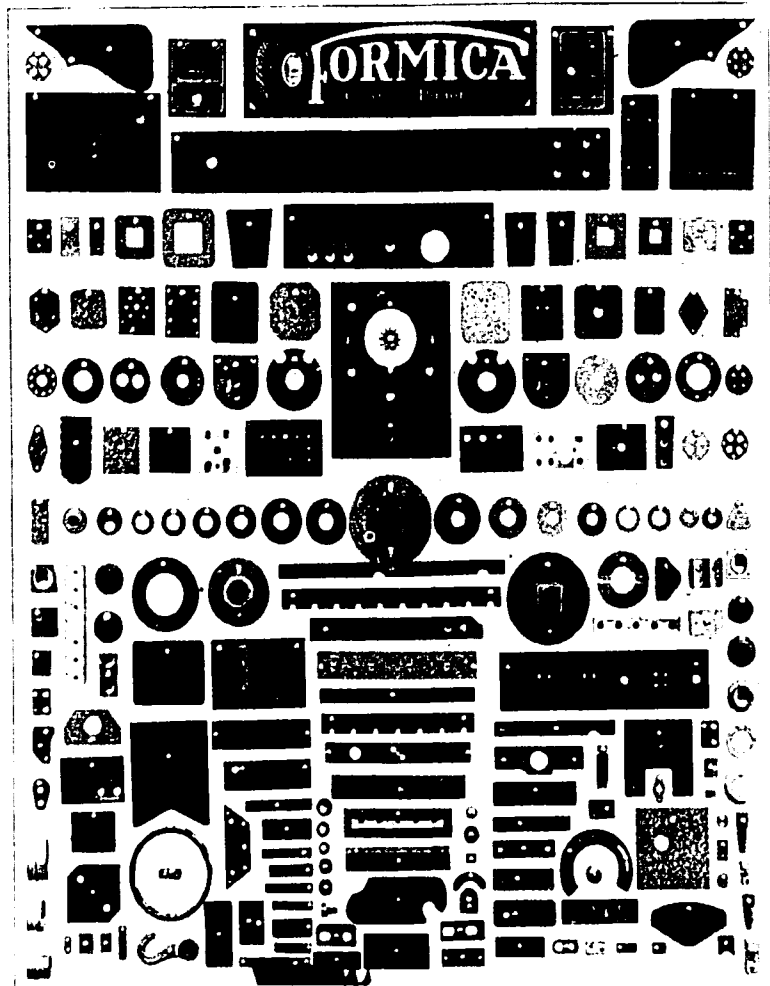
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*FIRST CHOICE
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For more information on Durham resistors, contact your local distributor or write to Durham Resistor Co., Dept. 10, Philadelphia, Pa.

Highly Resistant Radio Measurements

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- 2. Low inductance
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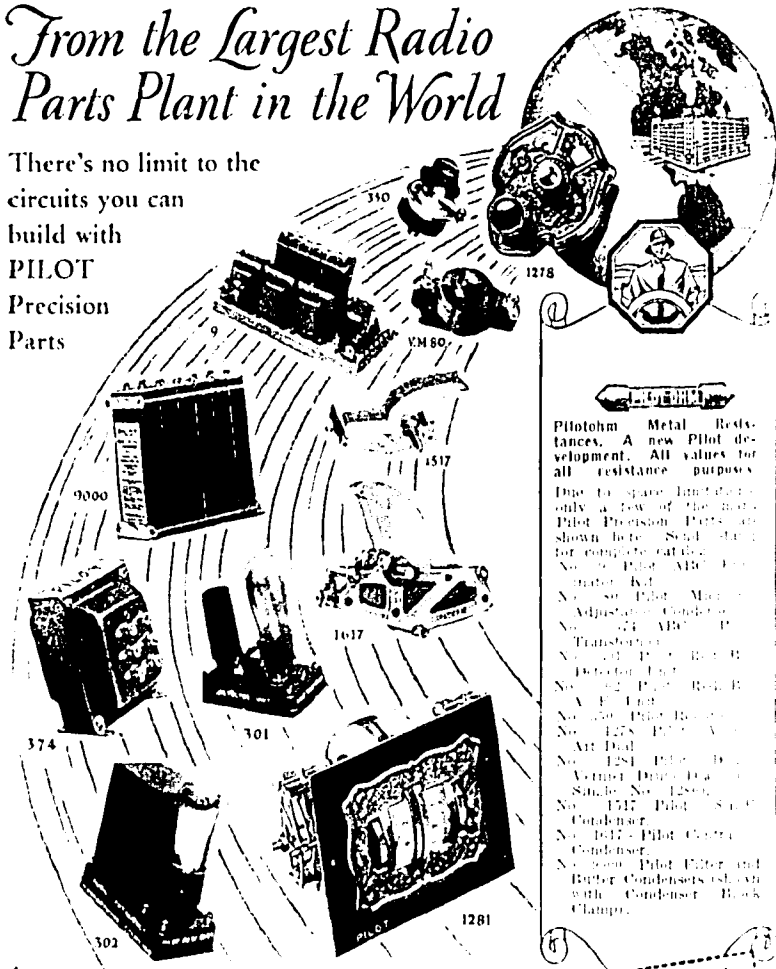
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No. 106 - Pilot Radio Single No. 1250

No. 107 - Pilot Radio Condenser

No. 108 - Pilot Radio Condenser

No. 109 - Pilot Radio and Buffer Condensers (shown with Condenser Back Clamps)



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Superficial thinking leads some people to conclude that because of low prices, Pilot Parts may be low quality. These folks overlook the fact that every Pilot product is a *precision* instrument, scientifically correct in design, electrically efficient and that Pilot's low prices are a tribute to modern engineering ingenuity, the result of manufacturing methods on a stupendous scale in a factory employing over 1000 operatives.

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