

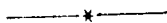
Institute of Radio Engineers

(INCORPORATED)

Organized 1912



YEAR BOOK 1932



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YEAR BOOK

of the

Institute of Radio Engineers

1932

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W. H. G. Bullard						1929		1928
W. G. Cady								
E. L. Chaffee		1922						
G. H. Clark							1914	
John M. Clayton			1928-29	1927-28				
E. H. Colpitts		1927						1921-23
Frank Conrad		1921						
Fulton Cutting	1922							
George S. Davis								1915; 17-19
Lee de Forest	1930							1931
J. H. Dellinger	1925	1924						1928-31
B. Dudley				1930-31				
Melville Eastham					1927-31			1922-27
C. P. Edwards		1931						
Lloyd Espenschied								1913; 1915-26; 31
L. F. Fuller								1928
Alfred N. Goldsmith	1928		1918-27				1913-28 1930-31	
A. H. Grebe								1924-26; 28
J. H. Hammond, Jr.					1914			
Louis A. Hazeltine								1923-27
R. A. Heising								1927-30
Guy Hill								1914-16; 18-20
J. V. L. Hogan	1921	1916-19						1913-15; 21-31
H. W. Houck								1931
Warren Hubley						1915-16 1918-27		
Lewis M. Hull								1920-31
C. M. Jansky, Jr.	1916							1920-31
A. E. Kennelly								
L. R. Krumm					1917			1921
Irving Langmuir	1923							
R. H. Langley				1914				
A. G. Lee		1930						
George H. Lewis								1918-19; 26
Donald McNicol	1926	1925						1910-24
R. H. Manson	1931							1927-30
R. H. Marriott	1912	1913						1914-16; 20-22
								1926-31
Alexander Meissner		1929						
George R. Metcalfe							1920-27	
J. H. Morecroft	1924	1923						1922
H. W. Nichols								1924-25
G. W. Pickard	1913							
G. W. Pierce	1918-19	1915						
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G. O. Squier								1918-22
John Stone Stone	1915	1911						1910-19
A. Hoyt Taylor	1920							1930-31
Thomas T. Trapnell						1914		
A. F. Van Dyck								1930-31
R. A. Weagant								1914-17
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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 de Forest, 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. Cleve, 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 A. N. Goldsmith, J. V. L. Hogan, 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 Directors 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 prob-

lems, 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, 917 papers discussions, and book reviews have been printed. The PROCEEDINGS is sent free to all Institute members of all grades. The subscription price to nonmembers is \$10.00 per year.

Standardization reports giving definitions of terms and standard graphical symbols used in radio communication were issued in 1913, 1915, 1922, 1926, and 1929. The standardization report for 1928 was published in the 1929 YEAR BOOK, and that for 1931 in the 1931 YEAR BOOK. These standardization reports have become an important reference authority on terminology and symbols in radio practice.

This YEAR BOOK is the ninth the Institute has published; the first appearing in 1914, the second in 1916, the third in 1926, and subsequent issues each year.

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 described publicly 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	M. I. Pupin.....	1924
E. F. W. Alexanderson....	1919	G. W. Pickard.....	1926
G. Marconi.....	1920	L. W. Austin.....	1927
R. A. Fessenden.....	1921	Jonathan Zenneck.....	1928
Lee de Forest.....	1922	G. W. Pierce.....	1929
John Stone Stone.....	1923	P. O. Pedersen.....	1930
		G. A. Ferrié.....	1931

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 Directors, 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	Frank Conrad.....	1925
R. A. Weagant.....	1920	Ralph Bown.....	1926
R. A. Heising.....	1921	A. H. Taylor.....	1927
C. S. Franklin.....	1922	W. G. Cady.....	1928
H. H. Beverage.....	1923	E. V. Appleton.....	1929
J. R. Carson.....	1924	A. W. Hull.....	1930
		Stuart Ballantine.....	1931

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 Awards Committee, and by the Board of Directors, 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.

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 13. Full details will be found in the Constitution under Articles II, III, and IV. All the benefits of membership are available at once to all new members of any grade, except that Juniors and Students are not eligible to vote. Membership means, also, that one is enrolled with others having a similar interest in radio, and that one is on record as being among those who are interested and active in the development of this new and useful branch of the electrical engineering industry.

The grades of Fellow and Member require a much higher degree of technical training and experience than the grade of Associate. In order to maintain a high standard of membership, the Board of Directors in each case very carefully scrutinizes the application 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. The personal signatures of references are not required.

Institute Badges



All Institute badges are in the form of the emblem shown herewith, and are of 14-karat gold, finished in gold and enamel. The Fellow's badge is of blue lettering on a gold background while those of other grades of membership are reversed and show gold lettering on a colored enameled background. The background of the Member's badge is blue; the Associate's, maroon; the Junior's, white; and the Student's, green. Three forms of badges are available; a screw-back lapel button, a lapel pin, and a watch charm. The lapel button which is approximately half the size of the illustration may be obtained at \$2.75 each. The lapel pin is of approximately the same size as the illustration and is priced at \$3.00. The watch charm, finished on both sides, is provided with a ring to

MEMBERSHIP REQUIREMENTS, FEES, ETC.

Grade	Minimum Age	Years in Active Radio Engineering	References Required	Entrance Fee	Transfer Fee to Next Grade	Annual Dues
Fellow	32	10	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	†Three Fellows, Members, or Associates	\$3	\$2	\$6
Junior	16*	A Person Interested in the study of Radio	†Three Fellows, Members, or Associates	\$1	\$2	\$4
Student	None	None	One Faculty Member	None	\$1 to Junior Grade \$3 to Associate Grade	\$3

* 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 three members of the required grade, it is sufficient, usually, if the names of three business associates or friends are given. These should preferably be persons engaged in engineering or scientific work.

permit its suspension from a watch fob or chain and is also of the same size as illustrated. It is supplied at \$5.00. All badges may be obtained in any membership grade and should be ordered through the office of the Secretary.

Indication of Membership Grade

Institute members are authorized to use the following abbreviations or symbols indicating their grade of membership:

Fellow—Fel. I.R.E.

Member—Mem. I.R.E.

Associate—Assoc. I.R.E.

Junior—Jr. I.R.E.

Student—Std. I.R.E.

All other methods of indicating grade of membership are contrary to the expressed opinion of the governing body of the Institute. The use of the Institute emblem upon personal and business stationary, cards, et cetera, is likewise not approved by the Board of Directors and members are requested to call this to the attention of the Secretary as directed in the By-Laws to the Constitution.

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

New York 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, describing recent developments in radio, and are the subject of general discussion on the part of those in attendance.

Institute 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—H. F. Dobbs, chairman; Philip C. Bangs, secretary, 23 Kensington Road, Avondale Estates, Georgia.

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

BUFFALO-NIAGARA—L. Grant Hector, chairman; E. C. Waud, secretary, 235 Huntington Ave., Buffalo, N.Y.

CHICAGO—J. Barton Hoag, chairman; Donald H. Miller, McGraw-Hill Publishing Company, 520 N. Michigan Ave., Chicago, Ill.

CINCINNATI—D. D. Israel, chairman; H. G. Boyle, secretary, Crosley Radio Corporation, Cincinnati, Ohio.

CLEVELAND—E. L. Gove, chairman; Deane S. Kintner, secretary, 3622 Lindholm Rd., Cleveland, Ohio.

CONNECTICUT VALLEY—L. F. Curtis, chairman; George Grammer, secretary, 334 South Quaker Lane, West Hartford, Conn.

DETROIT—H. L. Byerlay, chairman; Samuel Firestone, secretary, Room 615, 2000 Second Avenue, Detroit, Mich.

LOS ANGELES—E. H. Schreiber, chairman; H. W. Andersen, secretary, 2332 Lake View Ave., Los Angeles, Calif.

NEW ORLEANS—Pendleton E. Lehde, chairman; Anton A. Schiele, secretary, 1812 Masonic Temple, New Orleans, La.

PHILADELPHIA—G. W. Carpenter, chairman; G. C. Blackwood, secretary, 243 E. Upsall St., Mt. Airy, Philadelphia, Pa.

PITTSBURGH—J. G. Allen, chairman; J. G. McKinley, secretary, West Penn Electric Company, 14 Wood St., Pittsburgh, Pa.

ROCHESTER—H. A. Brown, chairman; M. A. Wood, secretary, 175 Winbourne Ave., Rochester, N.Y.

SAN FRANCISCO—Ralph M. Heintz, chairman; Frederick E. Terman, secretary, Stanford University, Calif.

SEATTLE—Leslie C. Austin, chairman; Herbert H. Bouson, secretary, Staff Headquarters, 13th Naval District, Joseph Vance Building, Seattle, Wash.

TORONTO—F. K. Dalton, chairman; W. F. Choat, secretary, 355 King St., W., Toronto, Ont., Canada.

WASHINGTON—J. H. Dellinger, chairman; Hugh Mitchell, secretary, Signal Corps, Office Chief Signal Officer, Munitions Building, Washington, D.C.

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

Procedure to be Followed in Forming a Section

- a. Carefully read all portions of the Constitution and By-Laws concerning Sections together with the Constitution for Sections which appear elsewhere in this YEAR BOOK.

b. Make a tentative canvass of the members residing within the territorial limits of the proposed Section. If at least fifty (preferably seventy-five members, of whom five or more are 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 nonmembers. 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 nonmembers, this tentative canvass may be made, and the membership applications forwarded to the Institute office. 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 caliber of the chairman and the interest taken by him in the affairs of the Section. Institute Headquarters, therefore, would like information as to the probable candidates at the time the request is made for the petition forms.

c. On receipt of the petition forms and lists 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 Directors.

e. Upon receipt of the approval of the Board of Directors 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 Standards Association

The American Standards Association 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 8.

The Sectional Committee on Radio is composed of representatives from sixteen 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*
B. DUDLEY, *Secretary*

Chairmen of Technical Committees:

Radio Receivers and Parts.....	VIRGIL M. GRAHAM
Radio Transmitters and Parts.....	HARADEN PRATT
Vacuum Tubes.....	J. C. WARNER
Electro-Acoustic Devices.....	IRVING WOLFF

REPORT OF THE SECRETARY INSTITUTE OF RADIO ENGINEERS

1931

THE following report is submitted to the membership in order that they may become better acquainted with the more important details of the Institute's activities during 1931. The material which is contained therein has been obtained from a number of sources, and is the result of the efforts of over two hundred and fifty members who have been good enough to give of their time and efforts in behalf of the Institute, and who have comprised the many committees through which Institute operations are advanced.

General

There were 6734 members of the Institute on December 31, 1931, as compared to 6535 at the close of 1930. This increase in membership during the year of approximately two hundred is somewhat smaller than has been the gain in membership during the past few years, but in view of business conditions both within and without the radio industry is considered gratifying.

Our seventeen Sections have shown considerable activity and ability in maintaining uninterruptedly their normal operation. In addition to the Sixth Annual Convention, which was held under the auspices of the Chicago Section in June, the Rochester Section sponsored a fall meeting in November which was well attended.

Almost seventy-five meetings were held by the various standing and special committees, and in addition a considerable amount of committee work has been accomplished outside of such meetings. The Papers Committee and Board of Editors in particular did practically all of their work by correspondence so the number of meetings held gives no indication of their activities. Volume 19 of the PROCEEDINGS contained a few more pages than any of its predecessors, and the 1931 Year Book was more than 50 per cent larger than any which had been issued previously by the Institute.

Our new Constitution, which is the result of the efforts of the Constitution and Laws Committee and the Board of Directors, establishes for the first time a Student grade of membership which should be particularly appealing to those college students whose interest lies in the communications field.

An examination of the comparative balance sheet which appears at the end of this report discloses a small net gain from operation for the

year which, in view of the continued and unreduced service which has been rendered the membership, indicates that reasonable care is being exercised in handling Institute funds.

Board of Directors

The governing body of the Institute is known as the Board of Directors, and all general policies are established by it. During 1931 ten meetings were held, nine of which were regular meetings and the tenth, a special meeting called to consider the final draft of the new Constitu-

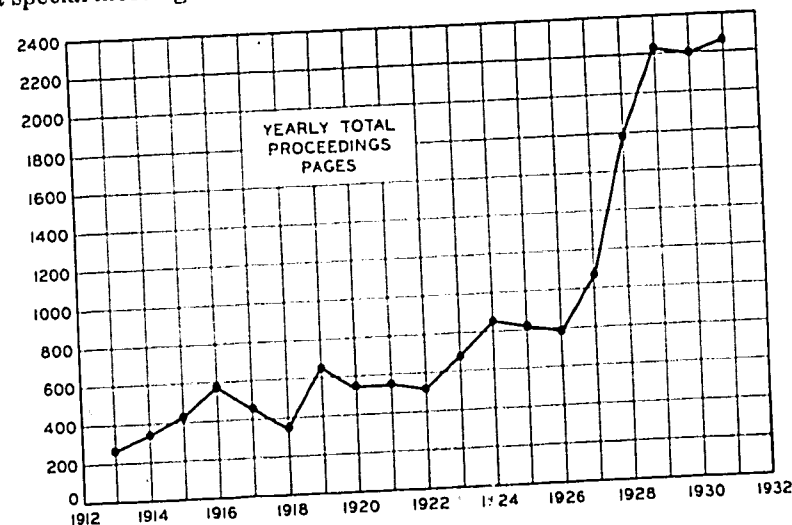


FIG. 1

tion which was approved by the membership in a subsequent ballot. There was no meeting in June as would normally be the case because the annual convention was held then.

Annual Convention

Under the able chairmanship of Byron B. Minnum, the Chicago Section sponsored the Sixth Annual Convention, the headquarters of which were at the Hotel Sherman in Chicago, Illinois, on June 4, 5, and 6. The attendance at the convention totaled approximately four hundred, the large majority of whom were from outside the Chicago Section area. On the technical program there were eighteen papers on diverse subjects in addition to a special paper presented by Arthur H. Compton of the University of Chicago. An official luncheon was given on the opening day of the Convention and the annual banquet was held on the evening of the second day. An exhibition of component parts, measurement devices, and manufacturing aids served to ac-

quaint those in attendance with the latest developments in these fields. The group which served on the Convention Committee and through whose efforts its success was achieved deserve the thanks of all those in attendance, as well as those who could not attend, for their efforts have assisted the Institute greatly in becoming more valuable in the engineering field of radio.

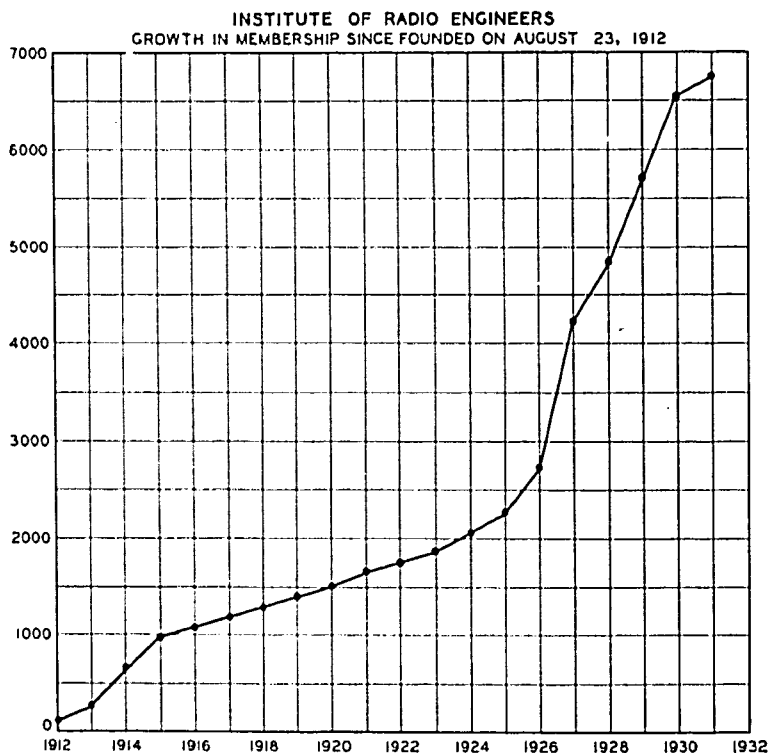


FIG. 2

Rochester Fall Meeting

The Rochester Fall Meeting, which is rapidly becoming an annual affair, was held on November 9th and 10th, and was attended by three hundred and thirty. A dozen papers were presented in the informal fashion which has made these meetings of such interest in the past. In addition to the informal banquet which was held on the evening of the last day, group luncheons were arranged for both days and a group dinner for the first day of the meeting. It was, accordingly, unnecessary to leave the group activities of the Convention from the time of the first meeting in the morning to the close of the day's events. An exhibition of components, measuring instruments, and manufacturing aids was a part of this meeting. The arrangements were the work of a com-

mittee under the chairmanship of Virgil M. Graham, and sincere thanks are due to all who served for their efforts in our behalf.

New York Meetings

New York meetings of the Institute were held on the first Wednesday of each month during the year except in June, July, and August.

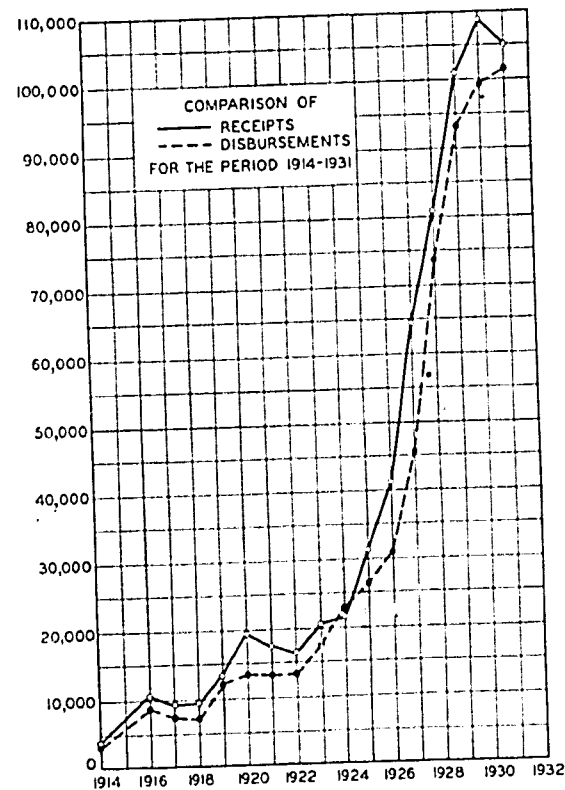


FIG. 3

The June meeting was in conflict with the date of the Convention in Chicago and the meeting was omitted. No meetings are held in July or August because a large number of members are not available in the city during these summer months. Through the courtesy of the New York Section of the Society of Motion Picture Engineers, those members of the Institute residing in the New York area were invited to attend a meeting at which was given a demonstration and paper on recent developments in vertical cut records.

Committees

A number of standing committees whose duties are outlined in the Constitution or have been determined by past operation are appointed

each year. These committees, in addition to handling such problems as arise during the normal course of events, are many times instructed by the Board of Directors to consider and report upon matters which arise and which are of an abnormal nature. These committees submit their opinions to the Board and aid it in its determination of satisfactory policies by which the Institute may be guided. The debt which each individual member of the Institute owes to these committee workers is a substantial one and it is unfortunate that the appreciation of the membership cannot be made evident to them in some suitable fashion.

ADMISSIONS

It is the duty of the Admissions Committee to examine critically each application which is submitted to the Institute for either the Member or Fellow grades of membership. Upon receipt of an application for either of these grades, suitable blanks are forwarded to the sponsors whose names are submitted by the applicant and when these are filled in and returned, all of the material is placed in the hands of the Admissions Committee for its consideration and determination as to the fitness of the applicant for the grade of membership desired. The responsibility of this committee in determining upon whether the qualifications of an applicant can be construed as being within the requirements of the Constitution is apparent, as it is through their efforts that the standards of the higher grades of membership are maintained. Under the chairmanship of C. M. Jansky, Jr., the committee held nine meetings and critically scrutinized one hundred applications for the two highest grades of membership. The distribution of these and the decisions reached are tabulated below. The committee does not normally examine applications for the Junior or Associate grades of membership.

	<i>Acted upon</i>	<i>Approved</i>
Admission to Fellow grade.....	2	0
Transfer to Fellow grade.....	9	7
Admission to Member grade.....	49	24
Transfer to Member grade.....	40	26

The committee also reviewed the new application blanks and made a number of suggestions for their improvement.

AWARDS

It is the duty of the Awards Committee to recommend to the Board of Directors suitable candidates as recipients for the two awards issued annually by the Institute. These are the Institute Medal of Honor and the Morris Liebmann Memorial Prize. For 1931 the Medal of Honor

was awarded to General G. A. Ferrié of Paris for his pioneer work in the up-building of radio communication in France and in the world, his long continued leadership in the communication field, and his outstanding contributions to the organization of international cooperation in radio. Because of his outstanding theoretical and experimental investigations of numerous radio and acoustic devices, the Morris Liebmann Memorial Prize was awarded to Stuart Ballantine of Boonton, N. J.

Mr. Ballantine received the Morris Liebmann Memorial Prize, which is a check for \$500, at the annual banquet held in Chicago. It was unfortunate that General Ferrié was unable to be in attendance at this banquet but his duties as chairman of the International Consulting Committee on Radio meeting held in Copenhagen at about the same time prevented this. Arrangements were made whereby a dinner was given in honor of General Ferrié by a number of members of the Institute who attended the meeting in Copenhagen and the presentation made there.

BOARD OF EDITORS

The Board of Editors have as their chief responsibility the determination of the fitness for publication in the PROCEEDINGS of all manuscripts submitted. Under the chairmanship of Alfred N. Goldsmith the committee examined one hundred and thirty-nine papers of which one hundred and twenty-six were approved for publication. It was not found necessary to hold any meetings of the Board of Editors during the year as the personnel was identical with that of the previous year.

BROADCAST COMMITTEE

The Broadcast Committee under the chairmanship of L. M. Hull held seven meetings and continued with its consideration of a number of questions which were submitted to it by the Federal Radio Commission. Reports were made to the Board of Directors on Federal Radio Commission General Orders Numbered 91 and 97 on "The Power Rating of Broadcast Transmitters" and "Modulation Capabilities of Broadcast Transmitters," respectively. These reports were approved and forwarded to the Commission.

The committee was instructed by the Board of Directors to consider problems other than those submitted to it by the Federal Radio Commission and a study of broadcasting as a systems proposition was suggested.

Dr. Hull found that it would be impossible for him to carry on his duties as chairman of this committee and in November asked to be relieved of this work. In accepting his resignation the Board of Direc-

tors extended to him its thanks and appreciation for the efforts he has made during the past several years in guiding the committee in its successful consideration of the many important and involved problems which have been presented to it. E. L. Nelson of the Bell Telephone Laboratories was appointed to succeed Dr. Hull.

CONSTITUTION AND LAWS

This committee under the chairmanship of R. H. Marriott held two meetings, one of which was devoted to a consideration of a proposed uniform registration law for professional engineers and land surveyors being sponsored by the American Society of Civil Engineers and upon which the Institute was asked to comment. The other meeting was devoted to the preparation of a report for the Board of Directors on such bills concerning radio as were pending in Congress.

MEMBERSHIP

Although the net gain in membership for 1931 amounted to only 3 per cent this is not felt to be a poor showing when general conditions are taken into consideration.

In view of the changes made in the Constitution upon its recent revision, a new membership blank had to be prepared and the committee gave this matter careful thought. It was also necessary to draft a new blank for the Student grade of membership.

DISTRIBUTION OF INSTITUTE MEMBERSHIP AS OF DECEMBER 31, 1931

Continental United States.....	5403
Alaska.....	5
Argentina.....	8
Austria.....	1
Australia.....	43
Bahama Islands.....	1
Belgium.....	4
Bermuda.....	1
Bolivia.....	1
Brazil.....	11
British Guiana.....	1
British North Borneo.....	1
British West Indies.....	2
Canada.....	284
Canal Zone.....	7
Channel Islands.....	2
Chile.....	4
China.....	40
Colombia.....	4
Costa Rica.....	2

Cuba.....	3
Czechoslovakia.....	4
Denmark.....	13
Dutch East Indies.....	1
East Africa.....	1
Egypt.....	2
England.....	436
Federated Malay States.....	9
France.....	31
Friendly Islands.....	1
Germany.....	16
Great Britain.....	3
Greece.....	2
Guam.....	1
Hawaiian Islands.....	32
Holland.....	13
Hungary.....	2
India.....	16
Ireland.....	11
Italy.....	12
Japan.....	140
Kenya Colony.....	1
Latvia.....	1
Mariannas Islands.....	9
Mexico.....	1
New Foundland.....	34
New Zealand.....	2
Nicaragua.....	2
Palestine.....	3
Panama.....	7
Peru.....	7
Philippine Islands.....	6
Poland.....	3
Porto Rico.....	2
Portugal.....	1
Samoa.....	19
Scotland.....	1
Siam.....	22
South Africa.....	1
South India.....	10
Spain.....	1
Spanish Morroco.....	2
Straits Settlements.....	8
Sweden.....	3
Switzerland.....	2
Tasmania.....	1
Trinidad.....	7
U.S.S.R. (Russia).....	2
Wales.....	1
West Indies.....	1
Total.....	6734

NEW YORK PROGRAM

Three meetings of the New York Program Committee were held under the chairmanship of Austin Bailey to determine upon programs for nine New York meetings of the Institute.

NOMINATIONS

The Nominations Committee held one meeting to prepare a list of candidates for officers for the forthcoming year. This meeting was held under the chairmanship of J. H. Dellinger, and the recommendations of the committee were submitted to the Board of Directors for its approval.

PAPERS

The Papers Committee, under the chairmanship of William Wilson found it necessary to hold but one meeting during the year. However, almost one hundred and fifty papers were forwarded to members of the committee throughout the year for their opinions as to the suitability of the manuscripts for publication in the PROCEEDINGS and for check on the technical accuracy and completeness of the material submitted. The following tabulation of the results of the efforts of the committee will give some idea of its accomplishments.

Papers reviewed for publication.....	139
Papers published*.....	126
Papers rejected.....	13
Papers returned for revision.....	19
Book reviews prepared and published.....	16
Discussions published.....	7

* Of these 13 required translation into English.

SECTIONS

The Sections Committee held four meetings, one of which was the annual meeting held during the Sixth Annual Convention in Chicago and another a special meeting held in Rochester during the Rochester Fall Meeting. It was thus possible for a considerable number of representatives of Sections to be present at the two special meetings and this helped considerably in maintaining a closer contact between the Sections and the committee.

A standard financial report form was prepared to simplify the work of Section treasurers and permit reports to be comparable over long periods of time. Although the new rebate system which allots to each Section \$10.00 for each meeting held during the year and 50 cents for each paid member residing in the Section territory was only put

into operation on the first of the year, it appears to have assisted a number of the smaller Sections in their financial affairs. The following table lists some pertinent information regarding the seventeen Sections of the Institute.

	Membership December 31, 1931	Meetings Held			Average Attendance	Per cent of Av- erage Attend- ance to Total Membership
		1929	1930	1931		
Atlanta.....	27	6	4	8	30	111
Boston.....	266	2	5	5	114	43
Buffalo-Niagara.....	55	10	7	3	27	50
Chicago.....	392	6	4	5	104	27
Cincinnati.....	105	4	8	10	52	50
Cleveland ¹	118	10	8	9	92	78
Connecticut Valley.....	140	4	1	9	47	34
Detroit ²	132	10	10	10	136	103
Los Angeles ³	269	8	10	10	93	35
New Orleans.....	36	4	2	—	—	—
Philadelphia.....	437	7	9	8	136	31
Pittsburgh ⁴	99	8	9	7	105	106
Rochester ⁵	66	8	6	9	198	300
San Francisco.....	187	9	11	11	51	27
Seattle.....	65	9	7	10	66	101
Toronto.....	173	8	7	10	87	50
Washington.....	217	9	9	9	65	30

¹ Joint meeting with A.I.E.E. March 25th—attendance 300.

² Joint meeting with A.I.E.E. March 17th—attendance 750.

³ Joint meetings with A.I.E.E. April 14, May 19, attendance 250 and 155, respectively.

⁴ Joint meeting with A.I.E.E. and E.S. of W.P.—attendance 500.

⁵ Rochester Fall Meeting, November 9 and 10—attendance 330.

STANDARDS

The last standards report was issued early in 1931 and it is anticipated that the next report will be available in 1933. The main Standards Committee is composed of about twenty-five members under the chairmanship of J. W. Horton. Six technical committees have been appointed. The names of these committees together with the chairmen are listed below:

Technical Committee on Electro-Acoustic Devices
E. D. Cook, *Chairman*

Technical Committee on Electro-Visual Devices
J. V. L. Hogan, *Chairman*

Technical Committee on Fundamental Units and Measurements
H. M. Turner, *Chairman*

Technical Committee on Radio Receivers
H. A. Wheeler, *Chairman*

Technical Committee on Radio Transmitters and Antennas
William Wilson, *Chairman*

Technical Committee on Vacuum Tubes
B. E. Shackelford, *Chairman*

These committees and a number of subcommittees which were appointed to consider specific problems held sixteen meetings during the year.

SECTIONAL COMMITTEE ON RADIO

The Sectional Committee on Radio is operated under the procedure outlined by the American Standards Association, and is sponsored jointly by the American Institute of Electrical Engineers and the Institute of Radio Engineers. The chairman of the committee is Alfred N. Goldsmith and there is operating under the committee a number of technical committees as follows:

Technical Committee on Electro-Acoustic Devices
Irving Wolf, *Chairman*

Technical Committee on Radio Receivers
Virgil M. Graham, *Chairman*

Technical Committee on Transmitters and Parts
Haraden Pratt, *Chairman*

Technical Committee on Vacuum Tubes
J. C. Warner, *Chairman*

These committees and their subcommittees held seven meetings during the year and have submitted for approval as American Standard, a report which appears elsewhere in this YEAR BOOK.

Deaths

With deep regret we inscribe below the names of those whose membership has been terminated by death.

Anderson, S. E.
Bentz, Carl F.
Bernhard, Frederick S.

Boerstler, Loren L.
Bohling, C. F.
Burdett, Sam

Campbell, Harold G.
Cunningham, H. C.
Dean, Samuel W.
Eastman, Fred T.
Ehle, Francis R.
Hall, Edward G.
Hayes, Clifford D.
Kimmell, William J.

Kratz, C. F.
McCullah, Arthur B.
McQueen, Harry D.
Morgan, N. R.
Mott, Lawrence
Nyholm, Christian
Whiting, Donald F.

Acknowledgment

In closing this report to the membership, I take this opportunity of acknowledging the loyal support and coöperation which has been my good fortune to receive from the Institute headquarters staff, without which the contents of this report would have been seriously abbreviated.

The Institute of Radio Engineers, Inc.
COMPARATIVE BALANCE SHEET
December 31, 1931 and 1930

ASSETS	Dec. 31, 1931	Dec. 31, 1930	INCREASE DECREASE
CASH			
General Fund—Corn Exchange Bank.....	\$8,287.37	14,831.61	6,544.24
Special Fund—Corn Exchange Bank.....	1,706.11	348.41	1,357.70
Petty Cash Fund.....	175.00	175.00	
TOTAL CASH.....	10,168.48	15,355.02	5,186.54
ACCOUNTS RECEIVABLE—CURRENT			
Junior.....	58.00	122.00	64.00
Associate.....	1,732.77	1,470.67	253.10
Members.....	15.00	20.00	5.00
Entrance Fees.....	1,076.50	978.00	98.50
Transfer Fees.....		10.00	10.00
Advertising.....	961.55	2,510.81	1,546.26
Reprints.....	107.82	301.87	194.05
ACCOUNTS RECEIVABLE—COLLECTIONS DEFERRED			
Junior.....	40.00		40.00
Associate.....	1,473.00		1,473.00
Member.....	255.00		255.00
Fellow.....	60.00		60.00
Due from Chicago Section.....	1,828.00		60.00
	579.47		579.47
TOTAL ACCOUNTS RECEIVABLE.....	6,362.11	5,422.35	939.76
INVENTORY			
PROCEEDINGS on Hand.....	4,984.87	4,444.92	539.95
Bound Volumes on Hand.....	118.00	111.55	6.45
Binders on Hand.....	245.14	157.08	88.06
Emblems on Hand.....	347.20	252.30	94.90
TOTAL INVENTORY.....	5,695.21	4,965.85	729.36
INVESTMENTS—AT COST.....			
(Market Value Dec. 31, 1931, \$38,092.50)	57,607.62	47,493.00	10,114.62
FURNITURE AND FIXTURES.....			
Less—Reserve for Depreciation.....	8,398.61		
	3,753.38		
ACCRUED INTEREST ON INVESTMENTS.....	1,092.43	892.43	200.00
PREPAID EXPENSES			
1932 Convention Expense.....	238.50		238.50
Unexpired Insurance Premiums.....	61.24	74.32	10.08
Stationery Inventory.....	400.00	729.37	328.37
Section Expense.....	250.00		250.00
TOTAL ASSETS.....	\$80,523.82	80,037.26	6,486.56
LIABILITIES			
ACCOUNTS PAYABLE			
SUSPENSE			
DUES, ETC., PAID IN ADVANCE.....	\$3,013.97	491.64	2,522.33
Junior.....	100.70	115.70	9.00
Associate.....	11.50	40.00	28.50
Member.....	826.48	902.68	76.20
Fellow.....	169.64	67.23	102.41
Entrance Fees.....	7.50	68.71	51.21
Subscriptions to PROCEEDINGS.....	92.50	142.50	50.00
Advertising.....	3,514.65	3,365.20	149.36
	64.00		64.00
TOTAL LIABILITIES.....	7,806.94	5,183.75	2,623.19
MORRIS LIEBMAN MEMORIAL FUND			
Principal.....	10,000.00	10,000.00	
Unexpended Income.....	77.87	77.87	
TOTAL MORRIS LIEBMAN FUND.....	10,077.87	10,077.87	
SURPLUS			
Balance, January 1.....	64,775.64	55,562.67	9,212.97
Operating Profit for Year.....	3,863.37	9,212.97	5,349.60
SURPLUS DECEMBER 31.....	68,639.01	64,775.64	3,863.37
TOTAL LIABILITIES AND SURPLUS.....	\$88,523.82	80,037.26	6,486.56

Patterson and Ridgeway, Certified Public Accountants
74 Trinity Place, New York, N. Y.

The Institute of Radio Engineers
(Incorporated May 13, 1912)

CONSTITUTION

ADOPTED AT THE FIRST MEETING OF THE INSTITUTE OF RADIO
ENGINEERS MAY 13, 1912. AMENDED NOVEMBER 2, 1914
DECEMBER 5, 1915, AND OCTOBER 7, 1931.

ARTICLE I

NAME AND OBJECT

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

SEC. 2—Its objects shall be the advancement of the theory and practice of radio and allied branches of engineering and of the related arts and sciences, their application to human needs, 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 papers, discussions, communications, and such other matters as may be appropriate for the fulfillment of its objects.

ARTICLE II

MEMBERSHIP

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

- 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 offices of President and Vice President.
- Associates, who shall be entitled to all rights and privileges of the Institute except the right to hold any elective office specified in Article V.
- Juniors, who shall be entitled to attend all meetings and to receive copies of all Institute publications.
- Students, who shall be entitled to attend all meetings and to receive copies of all Institute publications.

SEC. 2—A Fellow shall not be less than thirty-two years of age and shall be either:

- A radio engineer by profession. As such he shall have attained distinction in his profession and shall be eminently qualified to take responsible charge of important radio work and shall have been in the active practice of his profession for at least ten 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 or science 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 years of the required ten 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 and shall have had at least ten years experience as a teacher of physical or electrical subjects and shall have had responsible charge, for three years, of a radio course in a school of science or engineering of recognized standing. Any experience, as defined in paragraph "a", that the applicant may have had as a radio engineer shall be considered the equivalent of the same number of years of experience as a "teacher of radio subjects."

c. A person who has done notable original work of service to radio engineering of a character to give him a recognized standing at least equivalent to that required for Fellow under paragraph "a" or "b."

d. A person regularly engaged in radio work for at least ten years, who, by invention or by 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 Fellow under paragraph "a" or "b."

SEC. 3—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 or science and 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. As such 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' 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 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 Member under paragraph "a" or "b." In 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 person at least twenty-eight years of age who is an engineer by profession in work closely allied to radio. As such, under general direction, he shall have taken responsibility in important engineering work in his field, or science, and shall have been in active practice of his profession for at least seven years.

SEC. 4—An Associate shall be not less than twenty-one years of age and shall be a person who is interested in or connected with the study or application of radio science or the radio arts.

SEC. 5—A Junior shall have attained the sixteenth anniversary of his day of birth but shall not have passed the twenty-first anniversary thereof, and shall be a person who is interested in the study or application of radio science or the radio arts.

SEC. 6—A student shall be a person registered as a full-time student in a university or technical school of recognized standing who is pursuing a regular course of study in the science of engineering. The designation of full-time student is intended to include those who devote either their entire time or the major part of their time to studies. The expression "school of recognized standing" is interpreted as applying to schools of college grade providing an engineering curriculum of not less than three years and granting degrees.

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—The provisions of this Constitution, unless so stated, shall not be retroactive.

SEC. 9—The terms "member" and "membership" when printed without an initial capital where used in the constitution and By-Laws includes Fellows, Members, Associated, Juniors, and Students.

ARTICLE III

ADMISSIONS AND EXPULSIONS

SEC. 1—Applications may be made for admission or transfer to any grade of membership as required by the By-Laws.

The Board of Directors may refuse to elect or transfer any applicant whose character, reputation, or professional conduct has been such as would make him, in the opinion of the Board of Directors, an undesirable member.

SEC. 2—An affirmative vote, oral or written, of at least two-thirds of the Board members voting at any regular meeting of the Board shall elect or transfer an applicant for any grade.

SEC. 3—A rejected applicant may renew his application for membership or transfer at any time after the expiration of one year from the date of the ballot rejecting his previous application.

SEC. 4—All elected candidates shall be duly notified. If acceptance of election by payment of admission fee and dues is not received within six months from the notification, such election shall be considered void, unless for special reasons the time shall be extended by the Board of Directors. Membership of any person shall date from the date of his election. If such date is subsequent to July 1st, only one-half of the annual dues are payable for that year. The applicant shall receive the publications of the Institute, if available, for the period for which dues are paid but if such publications are not available he shall receive a proportionate refund.

SEC. 5—Any member may be expelled from the Institute by a unanimous vote of the Board of Directors.

SEC. 6—A member may resign his membership by a written communication to the Secretary, who shall present the same to the Board of Directors; when, if all his dues have been paid, his resignation shall be accepted.

ARTICLE IV

ENTRANCE FEES AND DUES

SEC. 1—The entrance fees, transfer fees, and annual dues shall be as follows:

Entrance Fees

Fellow.....	\$10.00
Member.....	5.00
Associate.....	3.00
Junior.....	1.00
Student.....	

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

Annual Dues

Fellows.....	\$15.00
Members.....	10.00
Associates.....	6.00
Juniors.....	4.00
Students.....	3.00

SEC. 2—The annual dues shall be payable in advance on the first day of January. It shall be the duty of the Secretary to notify each member of the amount due.

SEC. 3—The Board of Directors may temporarily excuse any member from payment of annual dues and may waive in whole or in part dues in arrears.

SEC. 4—Every person admitted to the Institute shall be considered as belonging thereto and liable for the payment of all membership dues until his connection therewith shall have terminated.

ARTICLE V

OFFICERS

SEC. 1—The governing body of the Institute shall be broadly representative of the membership. It shall be known as the Board of Directors and shall consist of the President, Vice President, Secretary, Treasurer, nine elected Directors, five appointed Directors, and the past Presidents of the Institute for the preceding two years.

SEC. 2—The terms of all officers, except the nine elected Directors and the past Presidents, shall be one year each. The President and the Vice President shall not be eligible for immediate renomination to the same office.

SEC. 3—Three Directors shall be elected by the membership annually and shall serve for three years each. At the first election under this Constitution, additional Directors shall be elected, one for one year and one for two years.

SEC. 4—The five appointed Directors shall be chosen by the Board of Directors to serve for terms of one year each.

SEC. 5—The Board of Directors is authorized to appoint a successor to any officer to fill an unexpired term caused by death or resignation.

SEC. 6—No officer shall receive, directly or indirectly, any salary, compensation, or emolument from the Institute, either as such officer, or in any other capacity, unless authorized by a vote of a majority of the entire Board of Directors, except as authorized by the By-Laws.

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 Directors at which he may be present and shall be an ex officio member of all committees.

The Vice President shall assume the duties of the President in event of the absence or incapacity of the President.

In the event that the President or Vice President cannot personally act as Chairman of the Board of Directors, the Board shall elect a Chairman from the Board membership who is so situated relative to the executive office that he can perform any or all of the duties of the President and he is hereby authorized to perform such duties.

SEC. 2—The Board of Directors shall manage the affairs of the Institute in conformity to the laws under which the Institute is organized and the provisions of the Constitution and By-Laws. It shall direct the investment and care of the funds of the Institute, make appropriations for specific purposes, act upon applications for membership as herein provided, take measures to advance the interests of the Institute, appoint all its employees, and generally direct its business. The Board of Directors shall make an annual report to the membership of the Institute, transmitting digests of reports of the Treasurer and of the other officers and of committees. Six members of the Board of Directors shall constitute a quorum.

SEC. 3—The Board of Directors may make, amend, or revoke such By-Laws as are necessary from time to time. To make, amend, or revoke the By-Laws, the proposed changes and reasons therefor shall be prepared in written form and mailed to all members of the Board of Directors thirty days or more before the stipulated meeting at which the vote of the Directors on the proposed changes shall be counted. A two-thirds majority of all Directors' votes either in writing or in person, received at the stipulated meeting, shall be required to adopt any new By-Laws, amendments, or revocations.

SEC. 4—The Treasurer shall see that all monies are deposited in the name of the Institute. He shall invest all funds not needed for current disbursements, as shall be ordered by the Board of Directors. He shall see that all bills are paid when approved as provided by the Board of Directors. He shall make an annual report and such other reports as may be prescribed by the Board of Directors. A digest of the annual report shall be published for the information of the membership of the Institute.

The Board of Directors shall secure a surety bond on the Treasurer.

SEC. 5—The Secretary shall attend all meetings of the Board of Directors and principal meetings of the Institute, prepare the business thereof, and duly record the proceedings thereof. He shall see that all monies 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. Subject to the instructions of the Board, he shall approve before payment all bills or vouchers on which money is to be paid, and shall countersign the checks drawn by the Treasurer, President, or Vice President, or Chairman of the Board, against the funds of the Institute when such drafts are known to him to be proper and duly authorized. He shall have charge of the books of account of the Institute, and shall furnish, when required by the Board of Directors, 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 Directors, 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 Directors.

The Board shall secure a surety bond on the Secretary. An annual audit of the affairs of the Institute shall be made by certified public accountants and submitted to the Board.

SEC. 6—All standing committees shall be chosen in accordance with the By-Laws by the incoming President before January first, the appointments to take effect at the annual meeting of the Institute. Additional standing committees and other committees may be appointed by the President with the consent of the Board of Directors at other times as may be required to carry out the objects of the Institute.

SEC. 7—The fiscal year of the Institute shall end with the 31st day of December.

ARTICLE VII

NOMINATION AND ELECTION OF PRESIDENT, VICE PRESIDENT, AND THREE DIRECTORS AND APPOINTMENT OF SECRETARY, TREASURER, AND FIVE DIRECTORS

SEC. 1—On or before July 1st of each year the Board of Directors shall call for nominations by petition and shall at the same time submit to qualified voters a list of the Board's nominations containing at least two names for each elective office, together with a copy of this article.

Nomination by petition shall be made by letter to the Board of Directors 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 executive office before August 15th of any year, and shall be signed by at least thirty-five Fellows, Members, or Associates.

Each proposed nominee shall be consulted and if he so requests his name shall be withdrawn. The names of proposed nominees who are not eligible under the Constitution, as to grade of membership or otherwise, shall be withdrawn by the Board.

On or before September 15th, the Board of Directors shall submit to the Fellows, Members, and Associates in good standing as of September 1st, a list, of nominees for the offices of President, Vice President, and three Directors. This list shall comprise at least two names for each office, the names being arranged in alphabetical order and shall be without indication as to whether the nominees were proposed by the Board or by petition. The ballot shall carry a statement to the effect that the order of the names is alphabetical for convenience only and indicates no preference.

Fellows, Members, and Associates shall vote for the officers whose names appear on the list of nominees, by written ballots in plain sealed envelopes, enclosed within mailing envelopes marked "Ballot" and bearing the member's written signature. No ballots within unsigned outer envelopes shall be counted. No votes by proxy shall be counted. Only ballots arriving at the executive office prior to October 25th shall be counted. Ballots shall be checked, opened, and counted under the supervision of a Committee of Tellers, between October 25th and the first Wednesday of November. The result of the count shall be reported to the Board of Directors at its first meeting in November and the nominees for President and Vice President and the three nominees for Directors receiving the greatest number of votes shall be declared elected. In the event of a tie vote the Board shall choose by lot between the nominees involved.

SEC. 2—The Treasurer, Secretary, and five appointive Directors shall be appointed by the Board of Directors at its annual meeting for a term of one year or until their successors be appointed.

ARTICLE VIII

MEETINGS

SEC. 1—There shall be an annual meeting of the Board of Directors as soon as practicable after January 1st and before February 1st, at which newly elected officers shall begin their terms of service, and the Board shall make necessary appointments. There shall be a meeting of the Board of Directors in November on or after the first Wednesday to receive the report of the Tellers Committee.

SEC. 2—There shall be an annual meeting of the Institute as soon as practicable after the annual meeting of the Board of Directors at which newly appointed Directors, officers, and committees shall begin their terms of service and at which general reports of the Secretary and Treasurer shall be made, and at which the retiring and incoming Presidents shall be requested to present addresses in person or by proxy.

SEC. 3—Additional business meetings and meetings for the reading and discussions of papers shall be held as prescribed in the By-Laws.

SEC. 4—The Institute may adopt, from time to time, rules for the order of business at its meetings.

SEC. 5—In addition to the annual and November meetings of the Board of Directors, meetings of the Board shall be held at such times as are necessary to carry out the provision of this Constitution and may be held at such other times as any three members of the Board may determine, but only on notice to all members of the Board.

ARTICLE IX

INSTITUTE SECTIONS

SEC. 1—Whenever, in the judgment of the Board of Directors, a sufficient number of Fellows, Members, and Associates shall petition, in writing, these members may form, subject to the Constitution and all By-Laws and regulations which may be hereafter prescribed by the Board of Directors, a Section of the Institute of Radio Engineers for the purpose of more effectually carrying out the aims of the Institute.

SEC. 2—Any member may become a member of such Section, but no such member shall be entitled to vote, or hold office, in more than one Section at a given time.

SEC. 3—The Board of Directors may at any time terminate the existence of any section when in its judgment the interests of the Institute make such action desirable.

ARTICLE X AMENDMENTS

SEC. 1—Amendments to this Constitution may be proposed by means of a petition signed by not less than thirty-five (35) Fellows, Members, or Associates, or by means of a resolution adopted by the Board of Directors. Such proposed amendment or amendments shall be submitted to legal counsel by the Board of Directors, and if, in the opinion of such counsel, they are in accordance with the laws under which the Institute is organized, a copy shall be mailed, with a letter ballot, to each member.

SEC. 2—Constitutional amendment ballots shall be mailed to the membership sixty days before the date set for counting the ballots, and the ballots shall carry a statement of the time limit for delivery to the executive office. The Secretary shall hand these ballots to a Committee of Tellers, which shall count such votes and make a sealed report in duplicate to the Board of Directors at the next meeting of the Board, one copy of which shall forthwith be filed with the Secretary, while the other copy shall remain in possession of the chairman of the committee, who shall hand this report to the presiding officer. In the absence of this report by the chairman of the committee the Secretary shall produce the duplicate copy and hand the same to the presiding officer of the meeting. The presiding officer shall then cause the report to be read. If the total vote be not less than twenty per cent (20%) of the total membership of the Institute, and if seventy-five per cent (75%) or more of all the Fellows, Members, and Associates voting shall declare themselves in favor of the proposed amendment or amendments, the same shall become a part of the Constitution.

SEC. 3—Amendments shall take effect thirty (30) days after their adoption, but officers and officers-elect of the Institute at the time any amendment becomes effective shall continue in office until the end of the terms for which they were elected.

SEC. 4—The Secretary shall print copies of the amendments as soon as practicable after adoption, and distribute the same to the membership.

SEC. 5—A complete history of amendments shall be kept in the files of the Institute.

BY-LAWS OF THE INSTITUTE OF RADIO ENGINEERS

Article VI, Sec. 3, of the Constitution provides for By-Laws as follows:

"The Board of Directors may make, amend, or revoke such By-Laws as are necessary from time to time. To make, amend, or revoke the By-Laws, the proposed changes and reasons therefore shall be prepared in written form and mailed to all members of the Board of Directors thirty days or more before the stipulated meeting at which the vote of the Directors on the proposed changes shall be counted. A two-thirds majority of all Directors' votes either in writing or in person, received at the stipulated meeting shall be required to adopt any new By-Laws, amendments, or revocations."

BY-LAWS

MEMBERSHIP

SEC. 1—Institute members are authorized to use the following abbreviations or symbols indicating their grade of membership:

Fellow—Fel. I.R.E.
Member—Mem. I.R.E.
Associate—Assoc. I.R.E.
Junior—Jr. I.R.E.
Student—Std. I.R.E.

SEC. 2—The term member (when printed without a capital), where used herein, includes Fellows, Members, Associates, Juniors, and Students.

SEC. 3—It shall be the duty of all members to call the attention of the Secretary to any improper use of Institute badges or symbols, or to claims made by nonmembers that they belong to the Institute. The Secretary shall thereupon investigate the facts and lay the matter before the Board of Directors.

SEC. 4—All applications for admission to the Institute in the Fellow or Member grades or for transfer to these grades shall be made in a form approved by the Board of Directors, and shall embody a full record of the general technical education of the applicant and of his professional career. Applicants for various grades of membership shall refer to the following number and grade of sponsors:

For the grade of Fellow, to five Fellows.

For the grade of Member, to five Fellows or Members.

For the grade of Associate, to three Fellows, Members, or Associates.

For the grade of Junior, to three Fellows, Members, or Associates.

For the grade of Student, to a member of the faculty of the school which he attends.

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 By-Laws. 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 confidential letter of prescribed form to the Board of Directors stating the extent of the writer's personal knowledge of the training and experience of the applicant and the writer's opinion of the character of the applicant. If at least a majority of the members named as reference 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, in the case of Fellow and Member grades, shall the application be considered by the Board of Directors.

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

An applicant for the Member or Fellow grade who is so situated as not to be known personally to more than three of the required number of members of

suitable grade may give the names, occupations, and addresses of responsible nonmembers to complete the required number of references.

SEC. 5—No application for admission or transfer shall be acted upon by the Admissions Committee until the number of replies prescribed above is received, except where requirements have been waived as provided in the foregoing Section

SEC. 6—An applicant for admission to the Institute, who, in the judgment of the Admissions Committee, is not eligible for the grade applied for, but is eligible for admission to a lower grade, may be so notified, and be given the opportunity of changing his application accordingly.

SEC. 7—The names of applicants for admission to, or transfer in, the Institute after approval by the Admissions Committee or other authority shall be posted in the PROCEEDINGS with a request that any member objecting to the election or transfer of any candidate shall make written communication to the Secretary, who shall refer such communication to the Board of Directors at the time of submission of the name of such candidate.

SEC. 8—Transfer of an Associate or Member to a higher grade may be proposed by any member acting as sponsor, in which case the sponsor shall fill out the application blank and provide letters of reference for submission to the Admissions Committee. If the application is favorably acted upon, the sponsor shall secure the candidate's signature to a duplicate application blank after which the application shall be posted and submitted to the Board of Directors with other applications as specified in Section 7.

SEC. 9—The Membership Committee shall, each year, select from the membership list the names of all members whom they think are entitled to a higher rank in membership, and shall act as sponsors as prescribed in Section 8 of these By-Laws.

SEC. 10—Objection to the admission or transfer of any candidate to any grade must be accompanied by reasons for such objection. All such statements shall be treated as confidential.

SEC. 11—The privileges attaching to membership in the Institute, shall not be accorded to applicants for admission until they have been duly elected, and have paid their entrance fees and current dues.

SEC. 12—A prompt notification of his election, accompanied by a statement of his initiation fee (if unpaid) and dues, shall be mailed to each candidate by the Secretary. A second notice of his indebtedness shall be sent by mail one month later to every candidate remaining in arrears in the continental United States and Canada and two months later to all other candidates. The Secretary may, at his discretion, cancel the election of any applicant who has not paid his initiation fee and remains in arrears three months after the mailing of the second notice.

SEC. 13—Any member who has resigned in good standing may be reelected without payment of entrance fee.

If such applicant so desires he may be reinstated, retaining his original date of membership or transfer, by payment of all dues which have accrued during the interim, and he will then be entitled to such Institute publications issued during this period as may be available and a rebate for such publications as are not available.

SEC. 14—Any member who has been dropped as delinquent may upon payment of the dues for which he was in arrears be reinstated or he may at his op-

tion be reelected to that grade of membership previously held upon payment of the entrance fee and current dues for that grade.

SEC. 15—The Institute rights and privileges of each member shall be personal to himself, and shall not be transferable or transmissible by his own act or by operation of law.

SEC. 16—A member whose membership shall terminate for any cause shall have no right or interest in any property of the Institute or any claim or privilege in or against the Institute or pertaining thereto.

SEC. 17—Any member whose dues are more than two months in arrears shall be notified by the Secretary. Should his dues not be paid when they become three months in arrears, he shall lose the right to vote or to receive the publications of the Institute. Should his dues become six months in arrears, he shall be again notified in form prescribed by the Board of Directors, and if such dues become ten months in arrears, he shall forfeit his connection with the Institute. The Board of Directors may, however, for cause deemed by it sufficient, extend the time for payment and for the application of these penalties.

SEC. 18—The mailing of bills or statements to the most recent address received from a member shall be considered a valid notice of indebtedness.

SEC. 19—Allied vocation, work, art, and science shall be construed largely upon the interest in the PROCEEDINGS of this Institute and upon the present and future applications of radio developments. Any work, art, or science which in its present state is obviously dependent on past, present, or probable future radio developments, any work, art, or science from which there is an obvious demand for the PROCEEDINGS of the Institute, and any work, art, or science that obviously contributes to the development of radio engineering shall be considered as an allied branch of engineering or of the related arts or sciences.

In each individual case the decision as to whether or not a candidate's occupation is sufficiently closely related to the purposes of the Institute shall be made by the Board of Directors in cooperation with the Admissions Committee.

ELECTION OF OFFICERS

SEC. 20—In January the Board of Directors shall select three of its members to serve as a Nominations Committee who shall select a chairman from their number and two or more additional committee members, if they deem it desirable.

As soon as practicable the Nominations Committee shall meet to select nominees and shall present its selections to the Board of Directors before April 15th. They shall suggest three or more names for each office and shall avoid naming persons who would presumably not accept the nominations, in so far as may be practicable.

SEC. 21—The Secretary, appointed as prescribed in Article VII, Sect. 2 of the Constitution shall be paid a salary, the amount of which shall be determined by the Board of Directors.

BOARD OF DIRECTORS

SEC. 22—Meetings of the Board of Directors shall be held the first Wednesday of each month in the office of the Institute in New York City except that in July and August meetings may be omitted.

Minutes of all meetings of the Board of Directors shall be sent to each member of the Board of Directors.

INSTITUTE MEETINGS

SEC. 23—Meetings shall be held by the Institute on the first Wednesday of each month except July and August and at such other times and places as the Board of Directors may elect.

SEC. 24—There shall be one or more general conventions of the Institute each year. Regional conventions may also be held. The location and dates of all conventions shall be determined by the Board of Directors.

SEC. 25—The President shall appoint a Convention Committee for each convention. The duties of this committee shall consist in making all necessary local arrangements for the convention, in cooperation with the Secretary and the Papers Committee. The chairman of the Convention Committee shall appoint such subcommittees as he deems necessary, as, for example, Committees on Publicity, Finance, Technical Sessions, Inspection Trips, Entertainment Features, Hotel Arrangements, etc.

SECTIONS

SEC. 26—A petition for the formation of a Section shall be signed by not less than twenty-five (25) Fellows, Members, and Associates residing within the territorial limits hereinafter prescribed. The Board of Directors 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.

SEC. 27—All Sections will conform to a Constitution for Sections provided by the Institute. The Constitution for Sections will be found following these By-Laws.

SEC. 28—In the initial Section organization only petitioners shall have the right to vote.

SEC. 29—A Section of the Institute may cooperate with other local organizations in the holding of joint meetings, and may invite members of such organizations and the public to its meetings.

SEC. 30—The territory of a Section shall include the locality 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 to which the 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 that Section, except that, when special conditions warrant such action, additional territory within a reasonable distance may be authorized by the Board of Directors, upon approval of the Sections Committee. If adjacent Sections are so situated that the sixty-mile limit embraces common territory, the question as to which Section may claim such members as reside within this common territory shall, if possible, be decided by agreement between the Sections concerned, otherwise by the Sections Committee.

SEC. 31—The Board of Directors may at any time terminate the existence of any Section when in its judgment the interests of the Institute make such action desirable.

SEC. 32—Papers and discussions presented before a Section shall be the property of the Institute, and may be published only on authorization by the Board of Editors.

SEC. 33—Each Section shall conduct its affairs in such a manner as to demand for its maintenance a minimum of financial support by the Institute consistent with the activities carried on by that Section.

The appropriation of Institute funds during any fiscal year for aid in Section maintenance shall be the sum determined as follows: Fifty cents for each Fellow, Member, and Associate residing within the territory of the Section at the beginning of the fiscal year, namely, January 1st, plus ten (\$10.00) dollars for each meeting up to and including the tenth meeting held during the year.

Sections shall have no authority to contract debts, pledge the credit, or in any way bind the Institute.

SEC. 34—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 1st of each year a statement of the past year's accounts.

SECTION DELEGATES

SEC. 35—The Section delegates attending a convention shall be members of the Institute. The duties of these delegates shall be as follows:

a. To attend such meetings of the Sections Committee as may be held during the convention.

b. To exchange views and experiences in connection with Section activities and management and to make recommendations of an advisory nature upon such matters to the Board of Directors.

c. To exchange and discuss ideas regarding subjects for inclusion in technical programs of future Section meetings.

d. To advise the chairman of the Sections Committee at least sixty days in advance of the convention of questions of interest to the Institute Sections which, in their opinion, should be discussed by the delegates at the meetings of the Sections Committee during the convention. The chairman of the Sections Committee shall appoint a subcommittee of three, who with the chairman, ex-officio, shall prepare in advance of the convention a program of such questions for discussion.

e. Past chairmen or chairmen-elect of Sections, if in attendance at the convention, shall have the privilege of attending all meetings of the Sections Committee but each Section shall be entitled to one vote only, which shall be cast by the chairman of the Section or other official delegate of the Section.

STUDENTS

SEC. 36—Each application for enrollment as a Student shall be endorsed by a member of the faculty of the school which he attends.

SEC. 37—The period of Student enrollment shall not exceed three years, nor shall it extend more than one and one-half years beyond the date of award of the baccalaureate degree or leaving the university or technical school. The period of enrollment shall date from the first of January nearest the date of filing application.

SEC. 38—The annual fee paid by each Student shall be applied as a subscription to the PROCEEDINGS for the year covered by such payment.

SEC. 39—A Student changing his mailing address without notifying the Secretary shall be entitled to duplicate copies of the Proceedings when available upon payment of fifty cents each.

COMMITTEES AND THEIR DUTIES

SEC. 40—The standing committees to be appointed by the President shall include the following:

Admissions Committee
Awards Committee
Board of Editors
Constitution and Laws Committee
Membership Committee
New York Program Committee
Nominations Committee
Papers Committee
Publicity Committee
Section Committee
Standards Committee
Tellers Committee

The President shall appoint the members and designate the chairman of each committee, who shall select a Vice Chairman and a Secretary. Copies of minutes of all meetings and actions of committees shall be forwarded promptly by the committee secretary to the Secretary of the Institute for his file.

Standing committees shall serve from annual meeting to annual meeting.

The President or the Board of Directors may appoint additional members to any committee at any time.

SEC. 41—The Admissions Committee shall consist of five or more Fellows and Members of the Institute. The duties of this Committee are indicated in Article III of the Constitution and under "Membership" in the foregoing By-Laws.

SEC. 42—The Awards Committee shall consist of the Chairman of the Papers Committee, acting as Chairman, together with the Chairmen of the Constitution and Laws Committee, the Papers Committee of the previous year, and the Chairmen of such other committees as the Board of Directors may designate. This Committee shall recommend recipients for the awards established by the Institute in accordance with the details of procedure adopted by the Board of Directors.

SEC. 43—The Board of Editors shall consist of four or more appointed members and the Secretary ex-officio. The Chairman shall be selected from the Board of Directors.

This Committee shall have supervision of the PROCEEDINGS, and other publications of the Institute, including matters pertaining to the format of these publications, decisions regarding the publication of papers, discussions, and all other matter available for publication, and the formulation and carrying out of plans for bringing into practice the policies regarding Institute publications that may be determined from time to time by the Board of Directors.

SEC. 44—The Constitution and Laws Committee shall consist of five or more members of the Institute, one of whom is a lawyer. It shall consider and investigate all matters relating to the Constitution and By-Laws of the Institute, the duties and jurisdiction of its officers and committees, its legal status and responsibilities, and like legal and cognate questions referred to it by the Board of Directors for action thereon. The committee may consult legal and technical counsel with reference to any question before it.

SEC. 45—The Membership Committee shall consist of five or more members, and the chairmen of the Membership Committees of the Sections of the Institute, ex-officio.

This Committee shall bring the advantages of membership to the attention of desirable candidates for admission to the Institute. The Committee may enlist the cooperation of the Sections in its work or take such other measures as it may consider advisable to interest prospective members of the standing and qualifications specified for the various grades of membership.

SEC. 46—The New York Meetings Program Committee shall consist of five or more members and shall prepare the programs for New York meetings of the Institute.

SEC. 47—The Nominations Committee shall consist of five or more members who shall recommend to the Board of Directors on or before the May meeting of the Board of Directors, a list of nominees for the offices of President, Vice President, and three Directors.

SEC. 48—The Papers Committee of five or more members shall be appointed for their ability to obtain, examine, and select papers.

This Committee shall cooperate with the Convention Committees. The Committee shall receive and consider all papers and in addition shall arrange directly for papers relating to subjects within the scope of Institute activity.

SEC. 49—The Publicity Committee shall consist of five or more members and shall give such publicity through the public press of Institute activities as will contribute to the growth and usefulness of the Institute.

SEC. 50—The Sections Committee shall consist of five or more appointed members and the chairman of each Section, ex-officio, or his representative.

This Committee shall have the general supervisor and management of the Sections of the Institute. The Committee shall confer with the Section officers and it shall consider, investigate, and make reports and recommendations to the Board of Directors for action upon all matters regarding or involving the interests and welfare of Sections.

SEC. 51—The Standards Committee shall consist of ten or more members with such additional members as may be necessitated by the plan of organization adopted by the Standards Committee.

This Committee shall consider and investigate all matters relating to units and standards appertaining to or applicable in radio engineering and in the allied engineering arts and sciences. The committee shall make reports and recommendations to the Board of Directors for action thereon.

SEC. 52—The Tellers Committee shall consist of the Secretary and at least one Associate, one Member, and one Fellow.

SEC. 53—The functions of temporary committees shall be defined by the Board of Directors. At the beginning of each administrative year the Secretary shall transmit to all the members of each temporary committee whose duties may be continued, copies of the original resolutions constituting such temporary committee.

SEC. 54—Committees shall be listed in alphabetical order in Institute publications.

REPRESENTATIVES UPON JOINT COMMITTEES AND OTHER BODIES

SEC. 55—The Board of Directors may appoint representatives of the Institute upon joint committees, boards, and other local, national, and international bodies, for the purpose of bringing about closer cooperation between the Institute and other organizations. The terms of these representatives shall terminate on December 31st except where the terms are otherwise specified in the regulations of the body to which they are appointed.

SEC. 56—The Board of Directors may authorize payment of the expenses of any officer or member when that member is sent by the Board of Directors to represent the Institute. The Board of Directors, in carrying out the objects of the Institute, may authorize any officer(s) or member(s) to represent the Institute on any subject when the degree and time of representation is specified.

PAPERS AND DISCUSSIONS

SEC. 57—Preprints or reprints of any paper published by the Institute not exceeding 50 copies will be furnished, without covers, free of charge for the personal use of the author if requested within 30 days before the month of publication. Special covers will be charged for.

For reprints or preprints in excess of 50 copies, or when ordered later than specified above, a charge will be made.

SEC. 58—The President may invite any nonmember to discuss any paper presented at a meeting of the Institute, and the chairman of any Section may invite any nonmember to discuss any paper presented at the Section of which he is chairman.

SEC. 59—No paper or written contribution to a discussion shall be given to the press for publication in advance of its presentation except by authority of the Board of Directors. Abstracts may be given to the press by the Publicity Committee.

SEC. 60—No person shall receive monetary compensation from the reprinting of any paper or discussion presented before the Institute or before any Section without previous authorization from the Secretary, excepting such reprints as are supplied by the Institute. All copyrights belong to the Institute.

PUBLICATIONS

SEC. 61—The regular publications of the Institute shall include the PROCEEDINGS, to be published monthly.

SEC. 62—The PROCEEDINGS may have two principal divisions:

- a. For current matter and Institute news.
- b. For technical papers, discussions, and other matter of engineering character.

SEC. 63—The Secretary is authorized to receive annual subscriptions to the monthly PROCEEDINGS at the rate of \$10.00 per annum with an extra postage charge sufficient to cover the mailing cost to all countries to which the bulk rate of postage does not apply. A discount of fifty per cent from the subscription price of \$10.00 will be allowed to colleges, public libraries, and libraries of learned organizations or institutions of standing upon direct subscription to Institute headquarters. Members, publishers and subscription agencies may be allowed a discount of twenty-five per cent.

SEC. 64—A reinstated or new member shall be entitled to receive single copies of the PROCEEDINGS issued during the period covered by his payment of dues when copies are available, and shall be entitled to a rebate of twenty-five cents per copy when such PROCEEDINGS are not available.

SEC. 65—An alphabetical and geographical list of members shall be published annually. The grade of each member shall be indicated in either list, or both, by a difference in type or otherwise, at the Secretary's discretion. This list, usually in the form of a YEAR BOOK, shall be sent to all members without charge. The list of members shall be corrected to January 1st and mailed as soon thereafter as practicable.

PUBLICITY

SEC. 66—Officers and committees, who consider that publicity regarding any Institute activities under their jurisdiction should be given in the daily or technical press, are urged to prepare such announcements as they may deem desirable, which should then be forwarded, with recommendations, to the Secretary. The Secretary will promptly refer them to the Publicity Committee. If the Secretary or the Publicity Committee is in doubt as to the propriety of publication the question may be referred to the Board of Directors. If the subject is a matter of news, the news value may be retained by discussing the matter over the telephone with as many committee members as are available.

CONSTITUTION FOR SECTIONS

(NAME OF PLACE OR GEOGRAPHICAL DISTRICT SECTION OF)

THE INSTITUTE OF RADIO ENGINEERS

CONSTITUTION

ARTICLE I

NAME AND OBJECT

SEC. 1—This organization shall be known as the.....
Section of the Institute of Radio Engineers.

SEC. 2—The Section shall strive for 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, all in consonance with the Constitution and By-Laws of the Institute and with special attention to such aims within the territory of the Section as are hereinafter defined.

SEC. 3—The Section shall aid in promoting close cooperation and good fellowship among its members and to this end shall hold meetings for the transaction of the regular business of the Section and for the presentation of papers and their discussion.

ARTICLE II

MEMBERSHIP

SEC. 1—All members of the Institute residing within the territory of the Section are automatically members of this Section. There shall be no other grades of membership.

SEC. 2—All Fellows, Members, and Associates of the Institute residing within the territory of the Section shall be entitled to attend meetings, vote, and hold office.

SEC. 3—Junior and Student members of the Institute shall be entitled to attend meetings but shall not have the right to vote or hold office.

ARTICLE III

TERRITORY

SEC. 1—The territory of the Section shall comprise (counties and State or States).

ARTICLE IV

DUES

SEC. 1—There shall be no Section dues.

CONSTITUTION

SEC. 2—The ordinary expenses of the Section shall be defrayed by the funds supplied by the Institute.

SEC. 3—Emergency or extraordinary expenses may be provided for by voluntary contributions from the membership of the Section. A unanimous vote of the Executive Committee is required before such a request may be made.

ARTICLE V

OFFICERS

SEC. 1—The officers of the Section shall be a Chairman, a Vice Chairman and a Secretary-Treasurer.

SEC. 2—Terms of all officers shall be for one year beginning at the close of the annual meeting at which election is held and continuing until their successors are duly elected and take office.

ARTICLE VI

MANAGEMENT

SEC. 1—There shall be an Executive Committee consisting of the officers, the Junior Past Chairman, the Chairman of the Meetings and Papers Committee, the Chairman of the Membership Committee, the Chairman of the Publicity Committee, and, if desired by the Executive Committee, one additional member to be appointed by the Chairman.

SEC. 2—The Chairman, responsible to the Executive Committee, shall have general supervision of the affairs of the Section. He shall preside at meetings of the Section and the Executive Committee and have such other powers and perform such other duties as may be provided for in the By-Laws, or as may be delegated to him by vote of the Section. In his absence his duties shall be performed by the Vice Chairman.

SEC. 3—The Secretary-Treasurer shall receive and deposit all monies in the name of the Section in such depository as shall be determined by the Executive Committee. He shall make only such disbursements as shall be ordered by the Executive Committee.

SEC. 4—The Secretary-Treasurer shall send out notices, prepare the agenda for, and record the minutes of all meetings of the Section and of the Executive Committee. He shall make such reports of his activities as may be required by the Executive Committee of the Institute.

SEC. 5—The Chairman, as soon as expedient after the annual meeting, shall appoint the following standing committees:

Meetings and Papers Committee
Membership Committee
Publicity Committee

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

Other Committees may be authorized by vote of the Section at any regular meeting, and shall be appointed by the Chairman of the Section.

ARTICLE VII

NOMINATION AND ELECTION OF OFFICERS

SEC. 1—All officers shall be elected at the annual meeting of the Section upon nomination by a nominating committee of three members not then officers of the Section, duly appointed by the Chairman of the Section two months before the annual meeting. These nominations shall be announced in the notice of the annual meeting. Nominations may also be made from the floor.

SEC. 2—Vacancies in office occurring during the year shall be filled by the Executive Committee for the remainder of the unexpired term unless otherwise provided for.

SEC. 3—If for any reason the best interests of the Section seem to require a change in the governing body during the year, the matter shall be duly and carefully considered by the Executive Committee. Upon not less than two-thirds vote of the Executive Committee, or upon receipt by the Executive Committee of a petition signed by fifteen (15) members of the Section, recommendation shall be made to the Section for action at a special meeting to be duly called by the Executive Committee for the sole purpose of considering and voting upon such a change.

A two-thirds vote of the members present shall be necessary to declare an office vacant. Upon a two-thirds vote of the members present the vacant office may be filled for the unexpired term upon nomination from the floor.

ARTICLE VIII

MEETINGS

SEC. 1—The Section shall not hold less than five regular meetings during the year, one of which shall be an annual meeting.

SEC. 2—These meetings shall be held at some specific time in the year as prescribed in the Section By-Laws.

SEC. 3—The fiscal year of the Section shall correspond with the fiscal year of the Institute. (Calendar year.)

SEC. 4—Fifteen members shall constitute a quorum at all meetings of the Section called for the transaction of regular business and requiring a vote to be taken.

SEC. 5—A plurality vote of the members present is necessary for the election of officers.

SEC. 6—Meetings of the Executive Committee shall be held at such times as shall be found necessary. Executive Committee meetings may be called by the Chairman of the Section at his own discretion or shall be at the request of three members of the committee.

SEC. 7—Four members shall constitute a quorum at all meetings of the Executive Committee except as otherwise provided herein.

SEC. 8—A majority vote of the Executive Committee shall be necessary, in the conduct of its business except as otherwise provided in this Constitution or in the Section By-Laws.

SEC. 9—The Secretary-Treasurer shall send out notices of all regular Section meetings to all Institute members in the territory of the Section at least one week prior to the date of meeting. These notices shall contain a full statement of the time, place, and business of the meeting.

ARTICLE IX

AMENDMENTS

SEC. 1—This Constitution may be amended by a two-thirds vote of all members present at any annual meeting of the Committee on Sections provided that notices of the proposed meeting and the proposed change has been sent to all members of the Committee on Sections at least one month in advance of the meeting. Such action shall be subject to the approval of the Board of Directors of the Institute.

SEC. 2—In the event of absence of any member of the Committee on Sections, he may vote by proxy on amendments to this constitution.

SEC. 3—Suitable By-Laws to this constitution may be adopted by a two-thirds vote of the Section provided they are consonant with the Constitution and By-Laws of the Institute and this Constitution. A copy of these By-Laws shall be filed in the Institute office.

ANNUAL MEETINGS

The annual meeting at which officers for the succeeding year are elected is usually a regular monthly meeting. The particular month chosen by each of the Sections is tabulated below.

Sections	Month
Atlanta	January
Boston	December
Buffalo-Niagara	June
Chicago	December
Cincinnati	December
Cleveland	December
Connecticut Valley	Last regular meeting of calendar year
Detroit	December
Los Angeles	December
New Orleans	June
Philadelphia	June
Pittsburgh	May
Rochester	Last spring meeting
San Francisco	June
Seattle	December
Toronto	May
Washington	December

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SECTIONAL COMMITTEE ON RADIO AMERICAN STANDARDS ASSOCIATION

THE conception of the American Standards Association was made in 1919 by a group of technical societies, who took the initiative to establish an authoritative channel through which nationally acceptable standards might be promulgated. The organization formed was first known as the American Engineering Standards Committee, and its purpose was to serve as a clearing house through which trade associations, technical societies, or governmental departments might develop national standards. In 1929 the Committee was reorganized to include a broader industrial scope and its name was changed to the American Standards Association.

The ASA is now essentially a federation of forty-five national technical societies, trade associations, and Federal Government departments. Under its procedure, standards on practically any subject may be initiated by any responsible, authoritative group. The organization of the ASA is such as to provide adequate means for the appointment, by the various groups concerned, of broadly representative committees whose function it is to study and formulate standards. Since these committees, known as Sectional Committees, are made up of individuals officially appointed by the organizations concerned with the subject under consideration, there is assurance, when the preponderance of committee opinion is favorable, that the standard recommended by the Sectional Committee has the extensive approval necessary to make it an American Standard.

In December, 1922, the A.E.S.C. received a request from the National Bureau of Standards asking that a Sectional Committee on Radio be formed for the purpose of establishing standards in the field of radio communication. A conference for the discussion of the project was held in January 1923, and upon the recommendation of the representatives attending this conference, joint sponsorship for the Sectional Committee on Radio was assigned to the Institute of Radio Engineers and the American Institute of Electrical Engineers.

In July, 1929, a standard covering dimensions and arrangements of terminals on four-prong vacuum tube bases was submitted to the American Standards Association and approved as an American Tentative Standard.

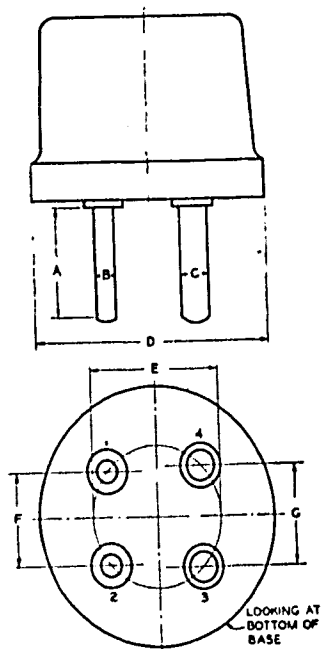
In October, 1929, a meeting was held to reorganize the work of the Committee and to apportion the work among four technical committees. Dr. Alfred N. Goldsmith was elected chairman, and Dr. C. H.

Sharp, vice chairman of the Committee. The details confronting the Sectional Committee were assigned to the Technical Committee on Transmitters and Parts, under the chairmanship of Haraden Pratt; the Technical Committee on Radio Receivers and Parts, under the chairmanship of V. M. Graham; the Technical Committee on Vacuum Tubes, under the chairmanship of J. C. Warner; and the Technical Committee on Electro-Acoustic Devices, under the chairmanship of Irving Wolff. The division of the work before the Sectional Committee, into four groups corresponding to the four technical committees provided a satisfactory set-up for the establishing of standards on radio matters. During 1930 and the early part of 1931 these four technical committees worked in close cooperation with the similar technical committees of the I.R.E. Committee on Standardization, and during June, 1931, a 44-page pamphlet on "Proposed American Standards on Radio" was forwarded to the members of the Sectional Committee on Radio for ballot vote. The material contained in the "Proposed American Standards on Radio" was based principally on the standards set up by the Institute of Radio Engineers and Radio Manufacturers Association, and contained "Standard Definitions of Terms Used in Radio", "Standard Tests of Broadcast Radio Receivers", "Standard Vacuum Tube Base and Socket Dimensions", and "Manufacturing Standards Applying to Broadcast Receivers".

On November 18, 1931, a meeting of the Sectional Committee was held and the "Standard Vacuum Tube Base and Socket Dimensions" and "Manufacturing Standards Applying to Broadcast Receivers" appearing in the following sixteen pages were unanimously approved by the Committee. Since then this material has been approved by both sponsor bodies and now awaits final approval by the American Standards Association before its adoption as an American Standard.

STANDARD VACUUM TUBE BASE AND SOCKET DIMENSIONS

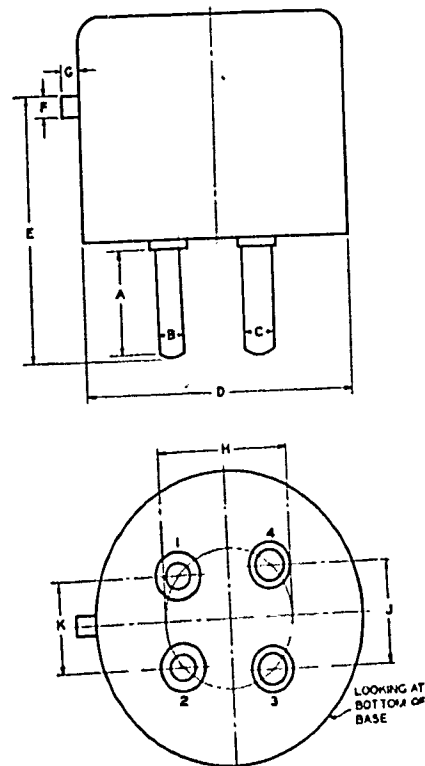
SMALL FOUR-PIN BASE



	Nominal	Min.	Center	Max.
A. Length of Pins	1/2 in.	0.122 in.	0.125 in.	0.128 in.
B. Diameter of Small Pins		0.153 "	0.156 "	0.159 "
C. Diameter of Large Pins	1 1/16 "			
D. Diameter of Base			0.640 "	
E. Diameter of Pin Circle			0.437 "	
F. Spacing Between Small Pins			0.468 "	
G. Spacing Between Large Pins				
Pins are rigid, not split.				

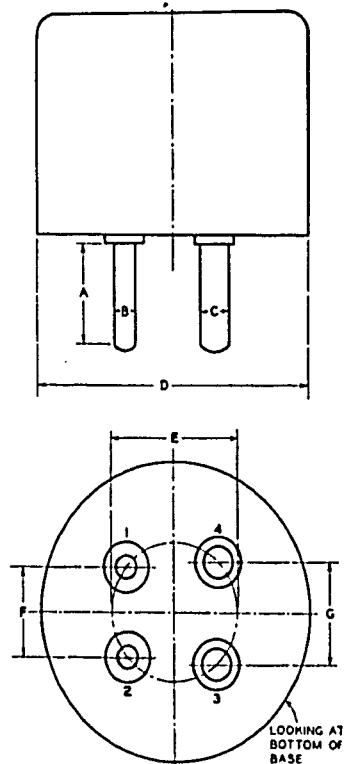
STANDARD VACUUM TUBE DIMENSIONS

LARGE FOUR-PIN BASE WITH BAYONET PIN



	Nominal	Min.	Center	Max.
A. Length of Pins	1/2 in.	0.122 in.	0.125 in.	0.128 in.
B. Diameter of Small Pins		0.153 "	0.156 "	0.159 "
C. Diameter of Large Pins				1.377 "
D. Diameter of Base				
E. Distance from Top of Bayonet Pin to Bottom of Contact Pin	1 1/16 "			0.080 "
F. Diameter of Bayonet Pin				0.078 "
G. Length of Bayonet Pin			0.640 "	
H. Diameter of Pin Circle			0.468 "	
J. Spacing Between Large Pins			0.437 "	
K. Spacing Between Small Pins				
Pins are rigid, not split.				

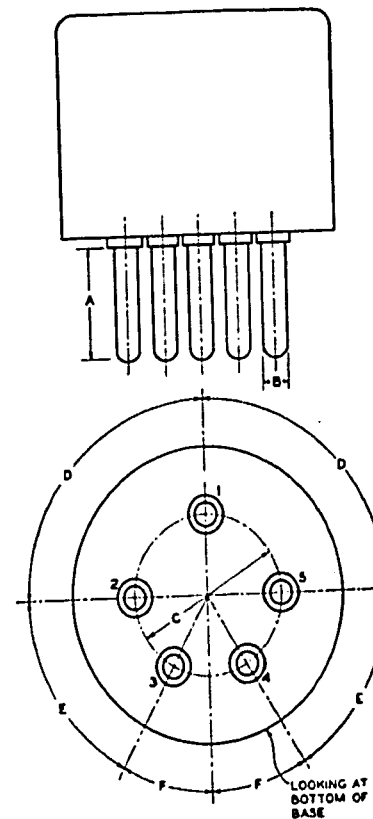
LARGE FOUR-PIN BASE, WITHOUT BAYONET PIN



- A. Length of Pins
 B. Diameter of Small Pins
 C. Diameter of Large Pins
 D. Diameter of Base
 E. Diameter of Pin Circle
 F. Spacing Between Small Pins
 G. Spacing Between Large Pins
 Pins are rigid, not split.

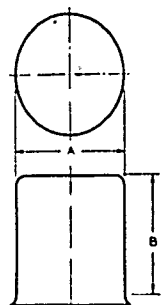
	Nominal $\frac{1}{2}$ in.	Min.	Center	Max.
A.		0.122 in.	0.125 in.	0.128 in.
B.		0.153 "	0.156 "	0.159 "
C.			0.640 "	1.377 "
D.			0.437 "	
E.			0.468 "	
F.				
G.				

LARGE FIVE-PIN BASE



- | | Nominal
$\frac{1}{2}$ in. | Min. | Center | Max. |
|----|------------------------------|-----------|-----------|-----------|
| A. | | 0.122 in. | 0.125 in. | 0.128 in. |
| B. | | | 0.750 " | |
| C. | | | 90 deg. | |
| D. | | | 60 " | |
| E. | | | 30 " | |
| F. | | | | |
- Pins are rigid, not split.

TERMINAL CAP



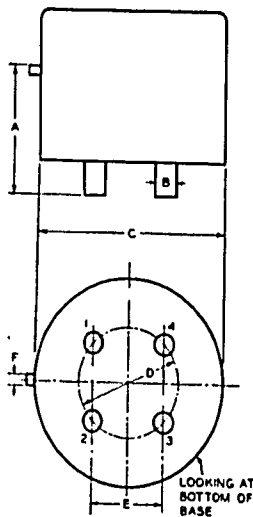
TERMINAL CAP FOR RECEIVING TUBES

	Nominal	Min.	Center	Max.
A. Diameter of Cap		0.346 in.	0.358 in.	0.370 in.
B. Length of Cap	1/8 in.			

TERMINAL CAP FOR TRANSMITTING TUBES

	Nominal	Min.	Center	Max.
A. Diameter of Cap		0.550 in.	0.563 in.	0.576 in.
B. Length of Cap	1/2 in.			

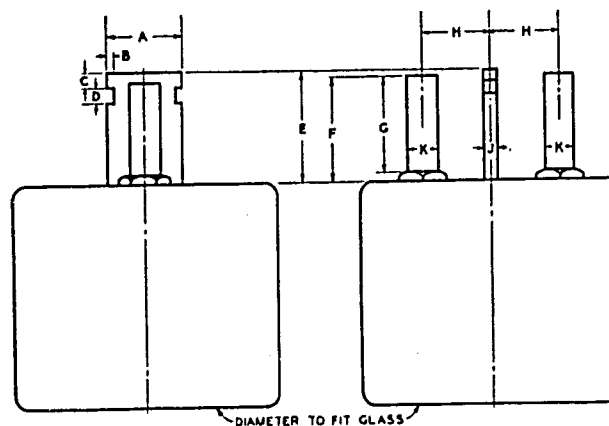
FOUR-PIN TRANSMITTING TUBE BASE



	Nominal	Min.	Center	Max.
A. Distance from Top of Bayonet Pin to Bottom of Contact Pins		1.146 in.	1.165 in.	1.184 in.
B. Diameter of Pins	1/16 in.			
C. Diameter of Base				1.867 "
D. Diameter of Pin Circle			0.972 "	
E. Spacing Between Pins			0.687 "	
F. Diameter of Bayonet Pin		0.078 "	0.080 "	0.082 "

Pins are rigid, not split.

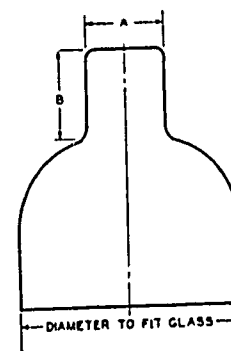
LARGE TRANSMITTING TUBE BASE



	Nominal
A. Width of Flat Pin	3/4 in
B. Depth of Slot	1/16 "
C. Distance from End of Slot to End of Flat Pin	1/8 "
D. Width of Slot	1/8 "
E. Distance from End of Flat Pin to Shell	1 1/32 "
F. Distance from End of Round Pin to Shell	2 1/32 "
G. Length of Round Pins	7/8 "
H. Spacing Between Pins	1 1/16 "
J. Thickness of Flat Pin	1/8 "
K. Diameter of Round Pins	5/16 "

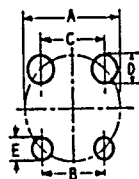
Round pins are rigid, not split.

TERMINAL CAP OF LARGE TRANSMITTING TUBE



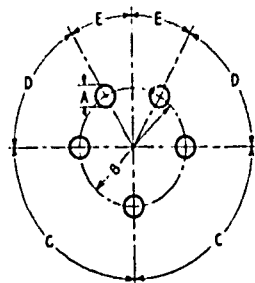
	Nominal
A. Diameter of Contact	11/64 in.
B. Length of Contact	13/16 "

FOUR-PIN SOCKET FOR RECEIVING TUBES



	<i>Min.</i>	<i>Center</i>	<i>Max.</i>
A. Diameter of Pin Circle		0.640 in.	
B. Spacing Between Small Pins	0.435 in.	0.437 "	0.440 in.
C. Spacing Between Large Pins	0.465 "	0.468 "	0.471 "
D. Diameter of Large Pins	0.173 "	0.176 "	0.179 "
E. Diameter of Small Pins	0.142 "	0.145 "	0.148 "

FIVE-PIN SOCKET FOR RECEIVING TUBES



	<i>Min.</i>	<i>Center</i>	<i>Max.</i>
A. Diameter of Pins	0.142 in.	0.145 in.	0.148 in.
B. Diameter of Pin Circle		0.750 "	
C. Angular Separation of Pins 1-2 and 1-5		90 deg.	
D. Angular Separation of Pins 2-3 and 4-5		60 deg.	
E. Angular Separation Between Center Line and Pins 3 and 4		30 deg.	

STANDARD CONNECTIONS FOR
VACUUM TUBE BASES

In directly-heated receiving triodes, it shall be standard to connect the grid to pin 1, the plate to pin 2, and the filament terminals to pins 3 and 4 of the standard four-pin base.

In indirectly-heated receiving triodes, it shall be standard to connect the grid to pin 1, the plate to pin 2, the heater terminals to pins 3 and 4, and the cathode to pin 5 of the standard five-pin base.

In the directly-heated full-wave hot-cathode rectifying tube, it shall be standard to connect the anodes separately to pins 1 (grid) and 2 (plate) and the filament terminals to pins 3 and 4 of the standard four-pin base.

In a directly-heated half-wave hot-cathode rectifying tube, it shall be standard to connect the anode to pin 2 (plate), and the filament terminals to pins 3 and 4 of the standard four-pin base.

In the directly-heated receiving screen-grid tube, it shall be standard to connect the screen grid to pin 1 (grid), the plate to pin 2 (plate), and the filament terminals to pins 3 and 4 of the standard four-pin base. The control grid is to be connected to the cap at the top of the envelope.

In the indirectly-heated receiving screen-grid vacuum tube, it shall be standard to connect the screen grid to pin 1 (grid), the plate to pin 2 (plate), the heater terminals to pins 3 and 4 (heater), and the cathode to pin 5. The control grid is connected to the cap at the top of the envelope.

MANUFACTURING STANDARDS APPLYING TO BROADCAST RECEIVERS

1. **Battery Operated Radio Receiver.** A radio receiver designed to operate from primary and/or storage batteries shall be known as a battery operated radio receiver.
2. **Socket-Powered Radio Receivers.** A radio receiver of the battery operated type, when connected to a power unit operating from the electric light line, supplying both filament and plate potentials to the tubes of the receiver, shall be known as a socket-powered radio receiver.
3. **Electric Radio Receiver.** A radio receiver operating from the electric light line, with a built-in power unit, shall be known as an electric radio receiver.
4. **A-C Electric Radio Receiver.** An electric radio receiver employing tubes which obtain their operating power from an alternating-current electric light line shall be known as an a-c electric radio receiver.
5. **D-C Electric Radio Receiver.** An electric radio receiver employing tubes which obtain their operating power from a direct-current electric light line shall be known as a d-c electric radio receiver.
6. **Selector (Station Selector.)** The manual adjustment means by which the user of a broadcast receiver is enabled to bring one or more of its circuits into resonance with any desired signal within the range of the receiver. There are three general methods of manual station selection. In these the mechanical means used in any of the three methods may consist of direct connected drives, with or without auxiliary close adjustment means, or may consist of close adjustment means only.
Note—The use of the word "control" as applying specifically to manual tuning adjustments is not approved.
7. **Multiple Selector.** That method of manual tuning adjustment in which mechanical means are provided for setting independently each of two or more tuned circuits or groups of tuned circuits to resonance at any frequency within the range of the device.
8. **Master Selector.** That method of manual tuning adjustment in which one mechanical means is used to bring all the tuned circuits simultaneously into approximate resonance with any desired fre-

quency within the range of the device, and additional auxiliary means are provided to bring one or more of the tuned circuits into exact resonance.

9. **Single Selector.** That method of manual tuning adjustment in which one and only one mechanical means is provided to the user for bringing all tuned circuits into practical resonance at any desired frequency within the range of the receiver, there being no additional separate means for resonance adjustment and no other controls which appreciably affect the calibration of the single selector.
10. **Direct Selectors.** Direct selectors are those in which the motion ratio between the knob, dial, or other actuating means and the device is unity.
11. **Close Selectors.** Close selectors are those in which the motion ratio between the knob, dial, or other actuating means and the driven device is greater than unity.
Note—The auxiliary tuning adjustments in master selector arrangements will ordinarily be "close" in their effect and may be so referred to regardless of the actual mechanical motion ratio which they employ.
12. **Volume Control.** The manual adjusting means by which the user of a broadcast receiver is enabled to adjust the sound volume delivered by the sound reproducing device on any signal input, within limits depending on the strength of the signal and the sensitivity of the receiver and the sound reproducing device.
13. **Range Control.** The manual adjusting means by which the user of a broadcast receiver may produce changes in the circuit to obtain two or more degrees of sensitivity. This may also be called "local-distance switch."
14. **On-Off Switch.** The manual means for connecting and disconnecting a source or sources of power which are supplied to the receiver.
15. **On-Off Switches.** When the lever of an "on-off" switch in a radio receiver operates with an up-and-down motion it shall be standard to have the "up" position for "on."
When the lever of an "on-off" switch in a radio receiver operates in a horizontal plane it shall be standard to have the "on" position to the right facing the switch.
When an "on-off" switch of the push-pull type is used in a radio receiver it shall be standard to have the "out" position for "on."
When an "on-off" switch of a radio receiver operates with a rotary motion with a limited angular movement of the knob, it shall be

standard to reach the "on" position with clockwise rotation of the knob and to reach the "off" position with counterclockwise rotation.

When an "on-off" switch of a radio receiver operates with a rotary motion in one direction reaching "on" and "off" positions alternately, it shall be standard to have the knob rotate in a clockwise direction.

16. **Broadcast Receivers—Frequency Range.** The frequency range of standard broadcast receivers shall be the broadcast frequency band from 550 kilocycles (545.1 meters) to 1500 kilocycles (199.9 meters).

17. **Design and Rating of Socket Power Devices and Electric Radio Receivers.** It shall be standard to rate and design socket-power devices and electric radio receivers for operation on voltages from 105 to 125 volts.

When means for adapting a socket power device or electric radio receiver to the line voltage is provided, it shall be standard to design the low range from 105 to 115 volts and the high range from 115 to 125 volts. Normal rating for the low range will be 110 volts and for the high range 120 volts.

18. **Nomenclature—Antenna Parts.** The standard nomenclature to apply to broadcast radio receiving antenna parts shall be as follows:

(a) Antenna wire.

(b) Lead-in wire.

That wire extending from an outdoor antenna to a window lead-in strip, or through a wall insulation directly to the radio set.

(c) Ground wire.

1. Receiver ground wire.
2. Protective ground wire.

The ground wire shall be separately designated as to whether the wire shall run from the receiving set ground binding post to a grounded fixture within the building or whether it run from the receiving set to the outdoor ground, as the conductor may be different.

(d) Insulation.

1. Antenna insulator.
2. Lead-in insulator.
3. Wall insulator.

(e) Ground clamp.

(f) Lead-in connector.

This is the device which is used to fasten or connect the lead-in wire to the antenna wire.

(g) Protective device.

This refers to the lightning arrester, regardless of type.

(h) Supporter of antenna.

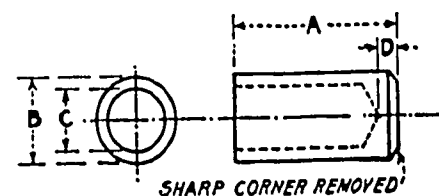
This refers to any mast or other rigging to which the antenna wire is attached.

19. **Antenna Installation Instructions.** It shall be standard for manufacturers of receiving sets requiring an outside antenna and for manufactures of outside antenna material sold in unit packages to include in the instruction book or instruction card accompanying the radio receiving set or antenna unit package, reasonably complete instructions for erecting the antenna containing two statements, one cautioning the user that the installation should be made in accordance with these instructions and in accordance with the National Electrical Code and the National Electrical Safety Code, and the other as follows: When erecting the antenna be careful not to allow any wire or rope to come in contact with any electric power or light wires. Such contact is DANGEROUS.

20. **Soldering Tests—Cord Terminals.** The standard test for quality of soldering of cord tips or terminals to radio cords shall be a straight pull of 5 pounds applied to the cord tip or terminal.

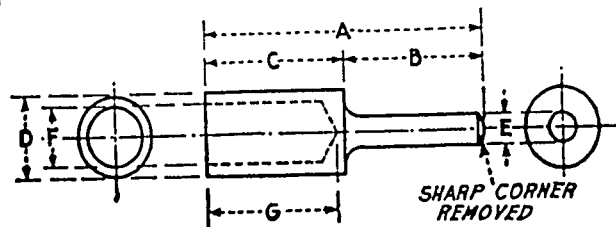
21. **Cord Tip—Cylindrical Type.** The standard cylindrical type cord tip for use on the ends of cords connecting to headsets and loud speakers, where concealed binding post connections are employed in the headset or loud speaker, shall have the following dimensions:

Dimension	Minimum in inches	Tolerance in inches	Maximum in inches
A	0.3125 ($\frac{5}{16}$)	0.0625 ($\frac{1}{16}$)	0.375 ($\frac{3}{8}$)
B	0.151	0.010	0.161
C			0.20 (No. 31 D. G.)
D			$\frac{1}{16}$



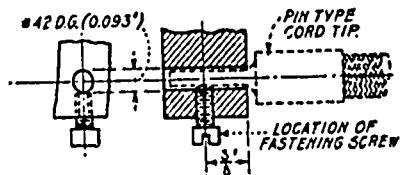
22. **Cord Tip—Pin Type.** The standard cord tip for use on the plug or receiving set end of headset and loud speaker cord conductors shall be of the pin type with important dimensions as listed in the following table:

Dimension	Minimum in inches	Tolerance in inches	Maximum in inches
A	0.9580	0.0620	1.0200
B	0.4900	0.0200	0.5100
C	0.4680	0.0420	0.5100
D	0.1510	0.0100	0.1610
E	0.0800	0.0020	0.0820
F			0.120 (No. 31 D. G.)
G			$\frac{7}{16}$

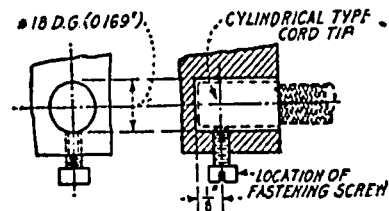


23. **Binding Posts—Drilling Dimensions.** Standard dimensions for the cord tip openings and the fastening screw locations of binding posts to accommodate the standard pin and cylindrical types of cord tip are as follows:

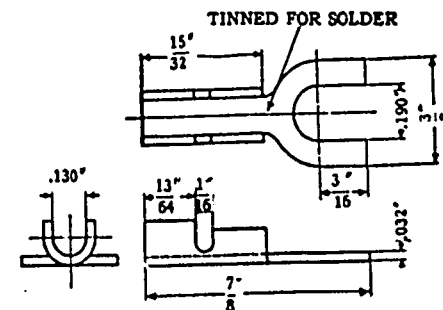
FOR PIN TYPE CORD TIPS:



FOR CYLINDRICAL TYPE CORD TIPS:



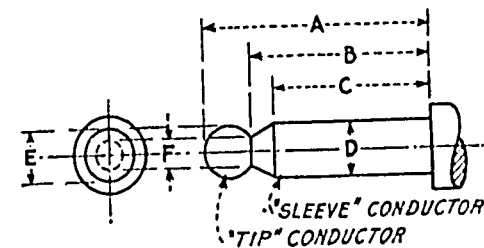
24. **Cable Terminal—Spade Type.** The standard cable terminals for the outer end of battery connecting conductors on radio receiving sets shall have the following dimensions:



(This terminal is designed for use with binding posts having No. 8-32 or No. 6-32 screws and can be used with spring-type battery connecting clips.)

25. **Radio Plugs—Dimensions.** The important dimensions of standard radio plugs for use in connection with the standard radio spring jacks are as follows:

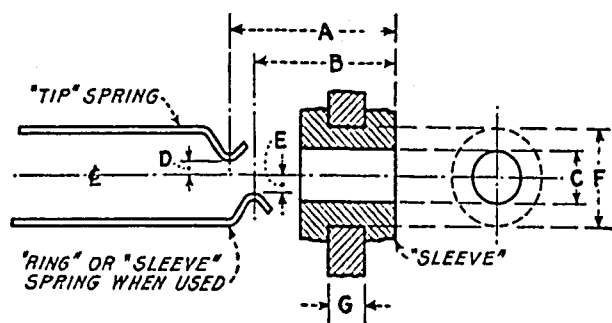
Dimension	Minimum in inches	Tolerance in inches	Maximum in inches
A	1.179	0.020	1.199
B			0.959
C			0.863
D	0.248	0.002	0.250
E	0.243	0.002	0.245
F	$\frac{3}{16}$		



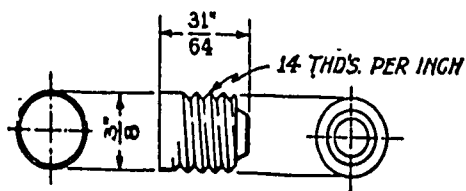
26. **Radio Jacks—Dimensions.** The important dimensions of standard radio spring jacks for use in connection with the standard radio plugs are as follows:

Dimension	Minimum in inches	Tolerance in inches	Maximum in inches
A	1.000	0.040	1.040
B	0.770	0.020	0.790

C	0.2515	0.0015	0.2530
D	0.020	0.010	0.030
E	0.030	0.010	0.040
F			0.450
G	$\frac{1}{8}$		$\frac{1}{4}$



27. Pilot Lamp, Radio Receiver—Base. The standard base for an incandescent lamp to be used for receiver panel illumination shall be the standard miniature screw base, as shown in standard 28 below, with additional important dimensions as follows:

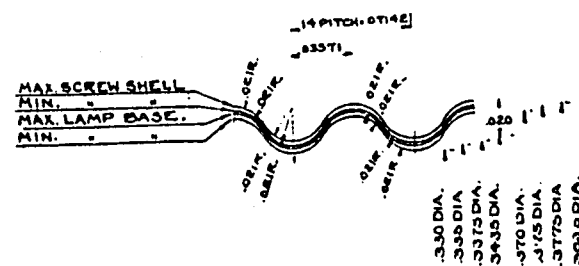


28. Edison-Type Screw Shells, Miniature Size—Standard Form and Dimensions

Diameter Dimensions.

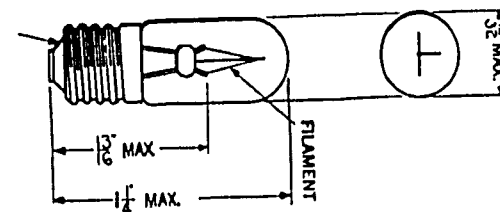
	Lamp Holder Shell	Lamp Base Shell
"Go" gauge, top of thread	0.3775 in.	0.3750 in.
"Not Go" gauge, top of thread	0.3835 in.	0.3700 in.
"Go" gauge, bottom of thread	0.3375 in.	0.3350 in.
"Not Go" gauge, bottom of thread	0.3435 in.	0.3300 in.
Threads per inch	14	14
Depth of thread	0.020 in.	0.020 in.

Form of Thread



STANDARD FOR MINIATURE SCREW SHELL AND LAMP BASE.

29. Pilot or Panel Lamp—Radio Receiver. The standard radio receiver pilot lamp shall have the following dimensions:



30. Magnetic Pick-up Jack—Connection. When a jack is used for connecting a magnetic pick-up into the input of the audio amplifier of a radio receiving set, it shall be standard to have the sleeve of the jack grounded or connected to the low side of the circuit.

CATALOG *of* MEMBERSHIP

ARRANGED ALPHABETICALLY

and

GEOGRAPHICALLY

CATALOG OF MEMBERSHIP
(This list is corrected only to December 31, 1931)

LIST OF MEMBERS OF ALL GRADES

Arranged Alphabetically

(See note on page 74)

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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 and the second comprises a geographical list of 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; (J) Junior.

Where only one address is shown in the alphabetical list it is the mailing address.

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

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December 31, 1931

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UNITED STATES

Texarkana
 Mathis, Charles, Jr. (J)
 Mims, Morrill P. (A)

CALIFORNIA
 Alameda
 Daniels, Harold H. (A)
 Jackson, Chester M. (A)
 Ramsay, Alan N. (A)
 White, Ray H. (A)
 Alhambra
 Greger, J. G. (A)
 Grimes, William F. (A)
 Lang, Connie (A)
 Lee, George Richard (A)
 Sleeper, J. Lloyd (A)
 Altadena
 Johnson, Paul F. (M)
 Arcadia
 Strachan, George H. (A)
 Willson, Clarence L. (A)
 Artesia
 Corcoran, E. M. (A)
 Corcoran, George L. (A)
 Bakersfield
 Lemert, Ralph D. (A)
 Baldwin Park
 Martin, Ora F. (A)
 Bell
 Anderson, Edward R. (A)
 Berkeley
 Armer, Austin A. (A)
 Davis, Daryl D. (A)
 Greves, George L. (A)
 Halloran, A. H. (M)
 Hartz, J. Ernest (A)
 Heinrich, Mortimer (J)
 Jones, Frank C. (A)
 Kellogg, Walter D. (A)
 McKay, William K. (A)
 Meissner, Earl R. (A)
 Power, Lawrence T. (A)
 Reukema, Lester E. (A)
 Beverly Hills
 Balsley, James R. (A)
 Bishop
 Wheeler, Walter R. (A)
 Bollinas
 Park, Charles W. (A)
 Slater, F. Robert (A)
 Tanck, Henry (A)
 Burbank
 Beatty, W. E. (A)
 Chini, Carl J. (A)
 Shaw, Theodore S. (A)
 Wainwright, Stuart F. (A)
 Burlingame
 Michalic, C. T. (A)
 Carlsbad
 Elser, F. Johnson (A)
 Claremont
 Packard, Alden C. (A)

Compton
 Orr, Francis H. (A)
 Smith, F. E. (A)
 Concord
 Kelly, Claude H. (A)
 Coronado
 McClelland, Harold M. (M)
 Pierce, Francis E. (M)
 Covina
 Ross, M. F. (A)
 Culver City
 Adams, Marvyn S. (A)
 Burns, G. Austin (A)
 Figgins, Frank M. (A)
 Wersen, David T. (A)
 Eagle Rock
 Ford, Walter B. (A)
 Sprague, G. M. (A)
 El Centro
 Cook, John W. (A)
 Irely, Earl R. (A)
 Lewis, Vergil E. (A)
 El Segundo
 Hart, William J. (A)
 Folsom City
 Brown, Elmer L. (A)
 Fontana
 Morecroft, J. H. (F)
 Fresno
 Foin, Owen F., Jr. (J)
 Gifford, Delbert K. (A)
 Fullerton
 Atherton, Malcolm J. V. (A)
 Lewis, Evan J. (J)
 Glendale
 Bowles, Theodore C. (A)
 Clement, Jack D. (A)
 Eilers, John (J)
 Ellis, George D. (A)
 Engen, Ralph E. (A)
 Kennedy, Frank M. (A)
 Kepler, O. L. (A)
 Murray, Robert W. (A)
 Shomler, H. B. (A)
 Weaver, Chester E. (A)
 Wright, Delmar (A)
 Hemet
 Sorkness, Hardus (A)
 Hermosa Beach
 Cooper, Harold G. (A)
 Perkins, George S. (A)
 Hollywood
 Blackburn, John F. (A)
 Brockway, Don C. (A)
 Campbell, Carleton W. (A)
 Cooper, George R. (A)
 Cunningham, Lodge (A)
 de Forest, Lee (F)
 Dering, Fred J. (A)
 Fox, Bert M. (J)
 Goldsmith, Lloyd T. (A)

CALIFORNIA (Continued)

- Hansen, Edmund H. (M)
Hart, Roy H. (M)
Heineman, John T. (A)
Hill, Arthur P. (M)
Hilliard, John K. (M)
Holden, Dale S. (A)
Huffman, Charles E. (A)
Levinson, Nathan (M)
Manderfeld, Emanuel C. (A)
Miller, Burton F. (A)
Mohler, J. L. (A)
Newman, David H. (M)
Phillips, Jos. H., Jr. (A)
Ringold, H. Russell (A)
Sawyer, Gordon E. (A)
Schultz, E. Patterson (A)
Schulze, Heri T. (A)
Stewart, Ronald B. (A)
Van Why, Forbes W. (M)
- Huntington Park
Dalton, Stuart P. (A)
Weissmantel, C. H. (A)
- Inglewood
Brittain, Louis B. (A)
Curran, George W. (A)
Underwood, Ernest G. (A)
- Inverness
Canfield, N. A. (A)
Case, Myron D. (A)
Culley, Lester D. (A)
Marsh, Hallock Snyder (A)
Moorhead, George H. (A)
- Jackson
Snyder, W. Gilman, Jr. (A)
Van Thiel, Jan (A)
- Kelseyville
Towne, Alfred E. (A)
- La Canada
Benioff, Hugo (A)
- La Crascenta
Robinson, Frederick (A)
- La Habra
Inns, Stephen (A)
- Larkspur
Kellogg, Frank L. (A)
- Long Beach
Brown, James H. (A)
Edgar, J. Clifton (A)
Gray, William (A)
Howell, Roger A. (A)
Larsen, D. Avery (A)
McDowell, Lawrence W. (A)
Moore, Raymond C. (A)
Strong, Foster G. (A)
Wallace, Donald C. (A)
- Los Angeles
Adams, Walter L. (A)
Albin, Frederick G. (A)
Alverson, James G. (A)
Andersen, H. W. (A)
Anderson, Henry A. (A)
Appleton, Harry (A)
Barnette, Allen F. (A)
Boring, Harold M. (A)
Bradley, John C. (A)
Brown, J. Kenneth (A)
Bryan, William J. (A)
Buffinger, W. G. (A)
Bumbaugh, Harold L. (A)
- Burke, Harold E. (A)
Campbell, William N. (A)
Chapple, James M. (A)
Coblentz, Orhan R. (A)
Coe, Ernest W. (A)
Collins, Edward M. (A)
Cook, Robert O. (A)
Currie, Burton Alex. (A)
Cutler, Kenneth W. (A)
Davis, Harold (A)
Dickson, H. L. (A)
Dreher, Carl (F)
Edgecomb, A. J. (A)
Estep, Carl R. (J)
Farran, Dean (A)
Felstead, Charles F. (A)
Fenton, A. Norwood (A)
Fetterhoff, Milton J. (A)
Findley, Thomas J. (A)
Flickinger, J. H. (A)
Gioga, Peter C. (A)
Grove, Howard G. (A)
Hagen, B. W. R. (A)
Hankins, Marvin J. (A)
Heather, Harold (A)
Hecht, Royal H. (A)
Hooker, Donald E. (A)
Hopkins, Stephen (A)
Houdyshell, Lowell B. (A)
Howard, L. W. (A)
Howe, Franklin Joachim (A)
Hubbard, Wyman B. (A)
Hughes, Emmett N. (A)
Jakosky, John Jay (M)
Karl, Otto G. (A)
Kennedy, Douglas (A)
Kennedy, John C. (A)
Ketchum, Robert W. (A)
Kornitved, George W. (A)
Langrick, Paul D. (A)
Lee, Gilbert C. (A)
Leighton, Harold W. (A)
Lindsay, W. W., Jr. (M)
Lubcke, Harry R. (A)
Ludlum, W. F. (A)
Mahon, James L. (A)
Mason, Curtis W. (A)
McCabe, William E. (A)
McCash, Perry V. (A)
Metcalf, David E. (A)
Miller, Charles E. (A)
Miller, Gerald B. (A)
Moore, Raymond M. (A)
Neely, Norman B. (A)
Newcomb, Robert (A)
Odell, Carl H. (A)
Olmstead, Charles B. (A)
Oodrys, Arthur (A)
Pearce, Harry G. (A)
Perkins, Lucius J. (M)
Perry, Robert M. (A)
Pfeiger, Robert A. (A)
Randle, Herrin E. (A)
Reed, Jess M. (A)
Reiter, Frank P. (A)
Richards, W. S. (A)
Riggs, Clare A. (A)
Sarver, Frank M. (A)
Schreiber, Ernest H. (A)
Sheldon, Clinton C. (A)
Shepard, Leo (A)
Silent, Harold C. (A)
Slyfield, Charles O. (A)
- Smith, C. Bernard (A)
Sorensen, Lanford W. (A)
Stolle, R. A. (A)
Stroebel, John C., Jr. (M)
Stuedle, Emry C. (A)
Tami, Joseph, Jr. (A)
Tatreault, Leon E. (A)
Taufenbach, Leslie E. (M)
Thistlewhite, Robert (A)
Turner, J. Glen (A)
Warne, Vearn J. (A)
Weatherford, Richard V. (A)
Whiston, R. William (A)
Whittaker, Edmund (A)
Woodbury, E. (A)
Zwinger, Owen (A)
- Manhattan Beach
Frank A. Tischer (A)
Yurgionas, John A. (A)
- Menlo Park
McCullough, Frank S. (A)
Seal, H. Robert (A)
- Merced
Shaffer, Frank (J)
- Monrovia
Barnard, T. A. (J)
- Monterey
Brokaw, Hal R. (A)
- Monterey Park
Alker, Charles (A)
Nikirk, Thomas E. (A)
Sanmann, Edgar J. (A)
- Napa
Streich, Robert J. (A)
- Oakland
Allen, Preston D. (A)
Brearty, Lawrence S. (A)
Brodie, Alfred H. (A)
Gilbertson, Bernard (A)
Hucke, Herbert M. (A)
Klein, Norman E. (A)
Lar Rieu, E. A. (A)
Mangelsdorf, F. (A)
O'Brien, Daniel L., Jr. (A)
Penther, Carl Joseph (A)
Schlueter, Edward A. (A)
Smith, Mortimer O. (A)
Stewart, Jesse A. (A)
Summers, James W. (A)
Waterman, Edward C. (A)
Wild, Sydney J. (A)
- Olympia
Kaufman, Arthur W. (A)
- Orange
Charbonneau, I. H. (A)
Waters, John E. (A)
- Pacific Grove
Wood, Stanford J. (A)
- Pacific Palisades
Eiler, E. E. (M)
Mann, Theodore H. (A)
- Palo Alto
Beal, Ralph R. (A)
Brolly, A. H. (A)
Brower, William M. (M)
Brown, Archibald S. (A)
Clayton, John M. (M)

CALIFORNIA (Continued)

- Elliott, H. F. (M)
Frey, R. C. (A)
Fuller, Leonard E. (F)
Green, Irving L. (A)
Jensen, Sven (A)
Julien, Ira F. (M)
Miller, Holmes C. (A)
Overacker, Horace E. (A)
Redeker, Harry E. (A)
Ryan, Harris J. (M)
Scofield, Philip F. (M)
Thomas, Charles C. (A)
Tinney, Francis B. (A)
Veirup-Jensen, J. G. (A)
Whitern, Ray (A)
- Pasadena
Blatterman, Headlee L. (A)
Bradshaw, Robt. C. (A)
Brown, Howell C. (A)
Cook, Ronald P. (A)
Dodge, Richard M. (A)
Felch, H. F. (A)
Hoover, Herbert, Jr. (A)
Hopkins, John S. (A)
Hopper, Francis L. (A)
Howes, Edgar T. (A)
Keyes, Edwin F. (A)
Lathrop, Kenneth A. (A)
Lindsey, William F. (A)
MacKeown, S. S. (M)
Moore, Robert M. (A)
- Piedmont
Scott, Leo L. (A)
- Pine Knot
Betterley, Jack A. (A)
- Point Reyes Station
Reid, Irl H. (A)
Wood, Raymond A. (A)
- Redwood City
Litton, Charles V. (A)
- Richmond
Parker, Ray H. (A)
Trolese, Louis (A)
Watson, Herbert M. (A)
- Rivera
Barlow, Roy G. (A)
- Riverside
West, L. E. (A)
- Sacramento
Hayden, J. W. (A)
Messner, Roy L. (A)
Semoni, Anthony J. (A)
- St. Helena
Lewelling, Raymond (A)
- San Bernardino
Kiernan, Earl F. (A)
- San Bruno
McAulay, Wm. H. (A)
- San Carlos
Wardlow, H. Vance (A)
- San Diego
Burnett, William L. (A)
Clark, Thomas F. (A)
Doig, John H. (A)
Gruenewald, Harold C. (A)
Kinney, E. S., Jr. (A)
Martin, Walter H. (A)
Naimo, Peter J. (A)
Patten, Stanley F. (A)
Riddle, George E. (J)
Signer, R. M. (A)
- Stone, John Stone (F)
Trapeur, Robert E. (A)
Ware, Albert S. (A)
Williams, Ralph R. (A)
Wisner, Fred L. (A)
- San Francisco
Baldwin, Robert S. (A)
Bear, William P. (A)
Bender, John A. (A)
Benson, Francis S. (A)
Blake, Robert I. (A)
Bogardus, Henry L. (M)
Bradley, John T. (M)
Bradshaw, Lynwood (A)
Brewington, Carl W. (A)
Clark, Kenneth G. (A)
Clark, Robert W. (A)
Cole, Charles H. (A)
Cone, Donald I. (A)
Connolly, Norman C. (A)
Coombs, Clyde F. (A)
Cormack, Alan N. (A)
Daily, Harold C. (A)
Danforth, Richard S. (A)
Danielson, Ernest G. (A)
Dewey, Fred L. (M)
Farnsworth, Philo T. (A)
Fass, Sydney J. (A)
Fenner, Paul R. (A)
Fletcher, Earle S. (M)
Franklin, Lyman T. (A)
Freiermuth, Vincent J. (A)
Gary, L. A. (A)
Gould, George B. (A)
Greene, Harry A. (A)
Hanscom, W. W. (M)
Hart, Arthur H. (A)
Heeder, M. E. (A)
Heintz, Ralph M. (F)
Held, Herman E. (A)
Henry, Franklin M. (A)
Hoffman, Samuel O. (A)
Huehl, R. M. (A)
Kaufman, Jack (A)
Kellogg, Richard B. (A)
Kennedy, David W. (A)
King, Howard D. (A)
Kirkland, Robert D. (A)
Kramer, John F. (A)
Lane, Howard D. (A)
Langevin, Carl C. (M)
Lebedeff, George M. (A)
Letsinger, R. Paul (J)
Levasseur, J. J. (A)
Linden, Bernard H. (A)
Lippincott, Donald K. (M)
MacDonald, H. J. (A)
MacMahon, Alvin E. (A)
Maynard, Raymond K. (A)
McDowell, C. S. (M)
Miller, Wayne (A)
Mowry, Charles E. (A)
Nicolaidis, George (A)
Nikonenko, Paul (A)
Parkhurst, Edgar L. (A)
Patron, Alfonso E. (A)
Pinkney, J. L. (A)
Powell, Louis H. (A)
Rosa, Walter F. (J)
Rowe, Victor G. (A)
Royden, George T. (M)
Sandfort, Mark (A)
Saxton, Alfred H. (A)
Shermund, Ralph C. (M)
Skinner, Clifton R. (A)
Slavin, Samuel B. (A)
Smith, Chas. S., Jr. (A)
- Smith, Herbert H. (A)
Smith, Howard L. (A)
Soderquist, Clement J. (A)
Sphar, Clark H. (A)
Stagnaro, John A. (A)
Ternow, Helmut G. (A)
Threlkeld, Howard M. (A)
Tobin, Lucien C. (A)
Todd, Stedman F. (A)
Tustin, John L. (A)
Vincent, Almon M. (A)
Vogel, Philip J. (A)
Walker, Raymond E. (A)
Weir, F. Torres (A)
Whitten, Sylvester (A)
Winnegar, W. A. (A)
Winner, Wm. L., Jr. (M)
Woltzen, Lloyd J. (A)
- San Gabriel
Ashbrook, Roy B. (A)
- San Jose
Booker, Eugene R. (M)
Cozzens, Bradley (A)
Engwicht, Harry (A)
Gillmeister, Frederick W. (A)
Kelliher, John E. (A)
Queument, Frank J. (A)
Reynolds, F. T. (A)
Saine, Harry (A)
Whidden, Ira P. (A)
- San Marino
Pohlman, G. Anton (A)
- San Mateo
Brown, James F. (A)
- San Pedro
Bailey, William B. (A)
Bassler, Carl J. (A)
Booth, Howard A. (A)
Brown, L. D. (A)
Carlson, Carl E. (A)
Derry, F. R. (A)
Dugan, Paul F. (A)
Foley, Joseph H. (A)
Homsy, John H. (A)
Johnson, V. (A)
Mareck, Albert J. (A)
Peterson, Arthur W. (M)
Ragan, Thomas C. (A)
Scott, Carl A. (A)
- San Rafael
Parkin, John, Jr. (A)
- Santa Ana
Beisel, Keith (A)
- Santa Barbara
Kempton, Walter D. (A)
Means, Paul S. (A)
Piersall, Bruce (A)
- Santa Cruz
Fisher, E. H. (A)
- Santa Monica
Best, Albert O. (A)
Willis, Edward N. (A)
- Saratoga
Cattell, Gilbert W. (A)
- Southgate
Griffith, M. H. (A)
Magnuson, Herman A. (A)
C. (A)
- South Pasadena
Parker, Evert L. (A)
- South San Francisco
Woolverton, R. B. (F)
- Stanford University
Byrne, Paul F. (A)

CALIFORNIA (Continued)

Rathbun, Harry (A)
Terman, Frederick E. (A)

Stockton
Clarkson, Chas. N. (A)
Holt, Phny E. (A)
Robertson, Walter J. (A)
Schulz, Paul C. (A)

Sunnyvale
Paul, Ernest E. (A)

Tuolumne
Elliott, William H. (A)

Vallejo
Rice, Arthur R. (A)
Robinson, R. J. (A)

Van Nuys
Black, Robert (A)
Chesney, Alonzo P. (A)

Venice
Aves, Fred J. (J)
Du Vall, Charles (A)
Gleason, Sterling (A)

Ventura
Snow, Louis A. (A)

West Hollywood
Freericks, Bernard (A)
Kruger, Bernard (A)
Kruger, Leon (A)
Smith, Wale H. (A)

West Los Angeles
Larsen, C. W. (A)
MacKenzie, Frank B. (A)
Poorman, Edwin H. (J)
Spiller, Cecil Chas. (A)

Whittier
Eagle, Roy D. (J)
Smith, L. E. (A)
Wiggins, Wallace S. (A)

Wilmington
Blank, S. A. (A)
Skov, Jens Ingvard (A)

COLORADO

Arvada
Kelso, Rupert E. (A)

Boulder
Cartwright, Randle V. (A)
Dieckman, William (J)

Colorado Springs
Blair, Wiley, Jr. (A)
Harvey, Francis M. (A)

Delta
Fulghum, Chas. K. (A)

Denver
Earnhart, Glen W. (M)
Giese, Raymond C. (M)
Grove, William C. (A)
Johnson, Harry A. (A)
Owen, Robert H. (A)
Pyle, William D. (A)
Strelsky, Herbert J. (A)
Williams, Howard M. (A)

Fort Collins
Sammons, Floyd (A)

Golden
Pawley, Myron G. (A)

Greeley
Isberg, Reuben (J)
Nichols, Frederick A. (A)

Holyoke
Scheneman, Henry Wesley (A)

Pictou
Anderson, William A. (A)

Pueblo
Coday, Wm. A., Jr. (A)
Finch, Joseph E. (A)

Seibert
Fingado, Francis H. (A)

Yuma
Beehler, Elmer G. (A)

CONNECTICUT

Bridgeport
Austin, Kirby B. (A)
Bishop, Nathaniel (A)
Chopsky, Peter A. (A)
Crossland, Henry A. (A)
Gimmy, Norman H. (A)
Gravlin, Lee F. (A)
Ham, Frank M. (A)
Harrington, Carlton E. (J)

Norton, Leland D. (A)
Nothnagle, Geo. E. (A)
Samoiloff, Leon (A)
Tomlinson, Harry E. (A)

Bristol
Dreyer, Harry W. (M)

East Hartford
Gray, J. Birnie (A)
Randall, J. Clayton (M)

Elmwood
Battley, E. L. (A)

Glenbrook
Niedert, George (A)

Greenwich
Thomas, Wm. A. (M)

Hamden
McNamara, Francis T. (A)

Hartford
Bourne, Roland B. (M)
Coe, Robert S. (A)
Handy, Francis E. (A)
Maxim, Hiram P. (A)
Pember, Harold H. (A)
Roach, John C. (A)
Rushing, Wallace E. (A)
Seeli, Russell G. (A)
Somerville, Harry V. (A)
Tasker, Joseph M. (A)
Weston, Francis B. (A)

Ivoryton
Kelsey, Philip C. (A)

Kensington
Edgerly, Albert H. (A)

Litchfield
Vanderpoel, Floyd L. (A)

Mansfield
Van Niman, Roy T. (A)

Meriden
Wilcox, Ernest C. (A)
Young, Frank A. (A)

Middletown
Cady, Walter G. (F)
Van Dyke, Karl S. (M)
Zottu, Paul D. (A)

Millford
Hadden, Harold L. (A)

Mount Carmel
Croteau, Carlton W. (A)

Naugatuck
Wood, Wm. Forrest (A)

New Britain
Johnston, Douglas A. (A)

New Haven
Doolittle, Franklin M. (M)
Fish, George R. (A)
Gubin, Samuel (A)
Pitts, A. B. (A)
St. Laurent, Herbert (A)
Smith, Franklin S. (A)
Turner, H. M. (M)
Weed, C. Bronson (A)

Noroton
Kutscher, Louis F. (A)

Noroton Heights
Meserve, G. Donald (A)

Norwich
Hubbard, James L. (A)

Plainville
Jones, H. Garfield (A)
Stephenson, Martin A. (A)

Seymour
Dana, Alan S. (A)

Southington
Lewis, Earl B. (A)

Springdale
Cowan, Edward J. (A)

Stamford
Carlson, Einar C. (A)

Storrs
Noble, Daniel E. (A)

Waterbury
Bennett, Morris H. (A)
Buckley, Francis P. (A)
Greenblatt, Louis (A)
Winchell, Alfred M. (A)

West Hartford
De Soto, Clinton B. (A)
Grammer, George (A)
Hebert, Arthur A. (M)
Houldson, Clyde J. (A)
Jackson, Albert H. (A)
Kruse, Robert S. (M)
Lamb, James J. (A)
Montgomery, Philip (A)
Sanders, Edwin R. (A)
Warner, Kenneth B. (M)

West Haven
Phillips, Edward I. (A)

Westport
Hanson, Oscar B. (M)
Perry, William A. (A)

Wethersfield
Carini, Louis (J)
Mitchell, James A. (A)

Wilton
Van Heiningen, Willard A. (A)

Windsor
Kecilly, Delbar P. (A)

DELAWARE

Wilmington
Bisbee, Robert H. (A)
Boylan, E. Braundt (A)
Casey, K. K. V. (A)
Fearing, Justin L. (A)
Henning, Clarence I. B. (A)
Tatnall, Joseph S. (A)
Warfield, T. Jackson S. (A)
Wilcox, Robert L. (A)

DISTRICT OF COLUMBIA

Anacostia
Cogswell, W. P. (A)
Cooper, Orville T. (A)
Gebhard, Louis A. (A)
Granger, Harold (A)
Howitt, Nathan (A)
Meyer, R. B. (A)
Moore, Adam H. (A)
Owens, Raymond B. (M)
Struthers, Francis W. (A)
Taylor, A. Hoyt (F)
Thomas, William M. (A)
Walker, Guy P. (A)
Wallace, James D. (A)
Wheeler, Lynde P. (F)
Williams, Charles Had- don (A)

Tacoma Park
Aurynger, John J. (A)

Washington
Arps, Mervin W. (M)
Austin, Louis W. (F)
Backus, Cyrus D. (M)
Bailey, Stuart L. (A)
Barron, J. H., Jr. (M)
Bender, Louis B. (M)
Berkner, Lloyd V. (A)
Bertonis, Peter W. (A)
Black, Joel Cantrell (J)
Bower, Ward E. (A)
Boyer, William P. (A)
Bradford, Henry K. (A)
Burger, Clarence W. (A)
Burgess, Warren B. (M)
Burke, David J., Jr. (A)
Burke, James W. (A)
Butman, Carl H. (M)
Caldwell, Louis G. (M)
Chamberlain, Robert R. (A)
Chromy, B. J. (A)
Cole, Martin (A)
Cohen, Louis (F)
Cole, G. C. (A)
Colvin, Ruel (A)
Corderman, Wm. P. (A)
Corrigan, James T. (A)
Craven, T. A. M. (F)
Crawford, David M. (A)
Culver, Clarence C. (M)
Curtis, Westley F. (A)
Davis, Chester L. (M)
Davis, R. K. (A)
Davis, Thomas M. (M)
Day, John F. (A)
Diamond, Harry (M)
Doremus, Cornelius W. (A)
Dorsey, Herbert G. (M)
Dow, J. B. (M)
Downey, W. E. (M)
Drury, Paul O. (A)
Ferguson, Theo. P. (A)
Fox, Benjamin (A)
Fugazzi, Frank J. (A)
Gilliland, Theo. R. (A)
Greaves, V. Ford (F)
Greeley, Philip H. (A)
Groselose, S. K. (A)
Guthrie, F. P. (M)
Hall, E. L. (A)
Hardesty, G. K. C. (J)
Harris, Richard P. (A)
Hastings, Harris F. (A)

Hatter, Angerean A. (A)
Heaton, Vincent E. (A)
Heron, Louis M. (M)
Hinemon, John H., Jr. (A)
Hogg, Wm. S., Jr. (M)
Holden, Ellis Gray (A)
Holt, Laurence J. (A)
Hooper, S. C. (F)
Hromada, Joseph C. (A)
Jackson, William E. (A)
Jansky, C. M., Jr. (F)
Jenkins, C. Francis (A)
Jett, Ewell K. (A)
Johnson, Albert E. (A)
Jolliffe, Charles B. (F)
Judson, Elbert B. (A)
Kalbfleisch, Albert C., Jr. (A)
Kaplan, Jacob (A)
Kaufman, Joseph (M)
Kinley, Clifford B. (A)
Kirby, Samuel S. (A)
Kriz, Joseph (A)
Lapham, Evan G. (A)
Leahy, John E. (A)
Lebowitz, Samuel (A)
Lee, Wm. Justice (M)
Loomis, Mary T. (M)
Loueks, Philip G. (A)
MacGregor, John J. (A)
Maddox, Charles H. (M)
Mates, T. Joaquin (A)
May, Albert (A)
McIlwraith, Chas. G. (A)
McKinley, Howard W. (A)
McNallan, Wilbur T. (A)
Mickey, Leroy (A)
Mirick, C. B. (M)
Moriarty, James F. (M)
Moulton, Theo. S. (A)
Mulkey, Dwight L. (A)
Murphy, Wm. H. (M)
Nair, W. Earl (A)
Norton, Kenneth A. (A)
Ould, Richard S. (A)
Page, Robert M. (A)
Pierce, James F. (A)
Pollock, Harry B. (A)
Powell, Edwin L. (M)
Reymer, Stephen E. (A)
Reynolds, W. W. (A)
Rietzke, Eugene H. (M)
Ring, Andrew D. (A)
Rittenhouse, Jos. P. (A)
Rohrich, George J. (A)
Seaton, Stuart L. (A)
Segal, Paul M. (M)
Smith, David H. (A)
Smith, James E. (M)
Sprayberry, Frank L. (A)
Squier, George O. (F)
Stahl, Barton E. (A)
Starbuck, W. D. L. (M)
Stevens, Waldo W. (A)
Stewart, Jessica Dee (M)
Stewart, Ralph B. (M)
Stoner, Frank E. (A)
Terrell, W. D. (F)
Weber, Carl F. (A)
Webster, E. M. (A)
Whitten, Leslie H. (A)
Willoughby, John A. (M)
Wiseman, William W. (A)
Wright, J. Warren (A)
Young, Leo C. (M)
Zandonini, Elizabeth M. (A)
Zeigler, T. W. (A)

FLORIDA

Avon Park
Smith, C. Ravenhill (A)

Clearwater
Mitchell, Joseph H. (A)

Hialeah
Allston, William F. (A)
Angle, G. B. (A)
Corrigan, C. J. (A)
Rowan, F. C. (A)

Jacksonville
Cooper, John C., Jr. (A)
Weiss, Glover (A)

Key West
Tellman, Herbert A. (A)

Lake Worth
Lord, Wilfred F. (J)

Large
Wittstruck, Harold H. (A)

Miami
Adams, George G. (A)
Borton, F. W. (A)
Gilbert, John C. (A)
McKinney, Joe H. (A)
Sullinger, Ferris W. (A)
Traeger, Sam H. (A)

Miami Beach
Dutton, Laurence E. (A)
Scott, Milton C., Jr. (A)
Sherwood, Lesle F. (A)

Miami Springs
Winter, Chas. W., Jr. (A)

Opa Locka
Meggers, A. L. (A)

Orange County
Wood, Edwin T. (A)

Orlando
Green, Chas. M., Jr. (A)

Ortega
Baukat, Henry W. (M)

Palatka
Peterson, Ted R. (A)

Pensacola
Harrower, J. C. (A)
Taylor, Francis Wm. (A)

St. Petersburg
Fill, John V. (J)
Green, Albert A. (A)
Johnson, Carl C. (A)
Link, Louis J. (A)
Lynn, Wallace L. (A)
Napper, Charles J. (A)
Preece, Richard, Jr. (A)

South Jacksonville
Grange, Gifford (A)

Tampa
Moore, William P. (A)
Reynolds, Frank J. (A)
Sandifer, Norwood H. (J)
Skelton, Kenneth W. (A)
Weaver, Henry Ray (A)

GEORGIA

Atlanta
Barker, Howard J. (J)
Brewin, Robert R. (A)
Clemans, Hershel L. (A)
Cochrane, Melvin R. (A)
Cook, J. M. (A)
Daugherty, C. F. (A)
Dobbs, Harry F. (A)
Gardberg, Joseph (A)

GEORGIA (Continued)

Gray, Floyd E. (A)
 Holey, Walter J. (A)
 Holliday, F. S. (A)
 King, Seaborn O., Jr. (A)
 MacNaughton, A. K. (A)
 Maier, Oscar C. (A)
 Petterson, Junior (A)
 Reid, Henry L. (A)
 Rothenberger, William L. (A)
 Sartain, L. B., Jr. (A)
 Thornton, Henry P. (A)
 Tompkins, K. P. (A)
 Wills, Harry L. (M)
 Wymore-Spiel, Ivy J. (A)
 Avondale Estates
 Bangs, Philip C. (A)
 Cedartown
 Burke, Jas. M., Jr. (J)
 Commerce
 Hood, Sam (J)
 Decatur
 McCorvey, Avis (A)
 Hapeville
 Laker, Edwin F. (A)
 Macon
 Breedlove, Bernard H. (A)
 Marietta
 Loucks, Ivan H. (A)
 Royston
 Berryman, Forrest G. (A)
 Savannah
 Carlson, C. O. (J)
 Donovan, James R. (A)
 Statesboro
 Blitch, James D. (A)
 IDAHO
 American Falls
 Brose, Fred O. (A)
 Boise
 De Remer, C. W. (M)
 Holcomb, E. Russell (A)
 Grangeville
 Greene, Warren L. (A)
 Idaho Falls
 Provis, Jack (A)
 Moscow
 Kiebert, Martin P., Jr. (A)
 Pocatello
 Davis, Glenwood (A)
 Ritland, Hubert O. (A)
 Sandpoint
 Johnson, Oscar E. (A)
 Twin Falls
 Belleville, Logan (A)
 ILLINOIS
 Arlington Heights
 Hines, Albert D. (A)
 Beardstown
 Barregarye, Laurence H. (J)

Berwyn

Burns, Elmer E. (A)
 Durham, J. B. (A)
 Hawkins, John B. (A)
 Komm, Paul M. (A)
 Krueger, Alfred (A)
 Million, John W., Jr. (M)
 Schnell, William J. (A)
 Wilkinson, L. G. (A)
 Bloomington
 Lawton, Harvey B. (A)
 Stillhamer, Arthur G. (A)
 Blue Island
 Damm, George J., Jr. (A)
 Brookfield
 Courter, H. L. (A)
 Canton
 Ingersoll, Wm. P. (A)
 Champaign
 Fortner, Obed D. (A)
 Hollister, James B. (A)
 Fetterman, D. M. (A)
 Fischer, Andrew, Jr. (A)
 Fisher, Frank E. (A)
 Flick, A. A. (A)
 Forbes, Allan C. (M)
 Forsberg, Otto J. (A)
 Fortington, Wm. H. (M)
 Fox, John E. (A)
 Frankel, Mortimer (M)
 Freeman, Ernest H. (M)
 Freimann, Frank (A)
 Friday, Wilbur L. (A)
 Fritzel, Joseph (A)
 Gallagher, Daniel F. (A)
 Gay, Paul F. (A)
 Gill, William (A)
 Glassman, George (A)
 Glover, Ralph P. (A)
 Goldman, Stanley (A)
 Goltzen, J. N. (A)
 Graef, Henry H. (A)
 Gray, Kline (A)
 Gruskin, George (A)
 Gustafson, Melvin F. (A)
 Halligan, Wm. J. (A)
 Heusman, Robt. M. (A)
 Blom, Roy (A)
 Boes, W. W. (A)
 Bradshaw, Edwin (A)
 Braun, W. C. (A)
 Bridgman, Francis K. (A)
 Brittin, Frank L. (M)
 Bronson, G. E. (A)
 Burger, Emil S. (A)
 Burkwest, Leonard G. (A)
 Burns, Robert P. (A)
 Campbell, Robert H. (A)
 Canon, Hartman B. (A)
 Carney, Louis Paul (A)
 Carter, A. J. (M)
 Casciato, Dominick (A)
 Cassens, Fred Benj. (A)
 Chadwick, Ray E. (A)
 Chan, George S. (A)
 Cherne, Leo J. (A)
 Church, John F. (M)
 Clausing, Le Roy M. E. (A)
 Clough, Kendall (A)
 Cohen, Theodore (A)
 Cole, William K. (A)
 Courchene, Homer B. (A)
 Crosssett, Edward C. (A)

Cubert, Joseph R. (A)
 Cumming, George (A)
 Dalton, Robert E. (A)
 Deeley, Paul M. (M)
 De Forest, M. J. (A)
 Douglas, James M. (A)
 Du Buclet, Sidonio L. (A)
 Dudley, Beverly (A)
 Duncan, Don C. (A)
 Dutton, Glenn H. (A)
 Dymond, Clifton (A)
 Edelman, Phillip E. (A)
 Edwards, Charles (A)
 Eells, M. Merwin (A)
 Elam, David L. (A)
 Elliot, Philip T. (A)
 Ellis, Robt. Marcus (A)
 Eppstein, Ralph M. (A)
 Erwood, John (A)
 Esmaker, John B. (A)
 Estey, F. Clifford (A)
 Falknor, Frank B. (M)
 Fast, John E. (A)
 Fernandez, Dan T. (A)
 Fetterman, D. M. (A)
 Fischer, Andrew, Jr. (A)
 Fisher, Frank E. (A)
 Flick, A. A. (A)
 Forbes, Allan C. (M)
 Forsberg, Otto J. (A)
 Fortington, Wm. H. (M)
 Fox, John E. (A)
 Frankel, Mortimer (M)
 Freeman, Ernest H. (M)
 Freimann, Frank (A)
 Friday, Wilbur L. (A)
 Fritzel, Joseph (A)
 Gallagher, Daniel F. (A)
 Gay, Paul F. (A)
 Gill, William (A)
 Glassman, George (A)
 Glover, Ralph P. (A)
 Goldman, Stanley (A)
 Goltzen, J. N. (A)
 Graef, Henry H. (A)
 Gray, Kline (A)
 Gruskin, George (A)
 Gustafson, Melvin F. (A)
 Halligan, Wm. J. (A)
 Heusman, Robt. M. (A)
 Blom, Roy (A)
 Boes, W. W. (A)
 Bradshaw, Edwin (A)
 Braun, W. C. (A)
 Bridgman, Francis K. (A)
 Hauser, Albert (A)
 Hayes, H. D. (M)
 Helman, Rolf A. (A)
 Hill, James H. (A)
 Hillegas-Baird, L. S. (A)
 Hitzzenhammer, A. De V. (A)
 Hoag, J. Barton (M)
 Holm, Edward A. (A)
 Holmquist, Carl T. (A)
 Holst, Wendell L. (M)
 Hoover, Richard T. (A)
 Howard, C. M. (M)
 Huffman, Kenneth C. (A)
 Hume, J. Malcolm (A)
 Isenberg, Rudolph (A)
 Israel, Dorman D. (M)
 Izenstark, Maurice J. (A)
 Jacob, Frederick N. (A)
 Jelen, Matt J. (A)
 Jenkins, J. Elliott (M)
 Jensen, Peter L. (A)
 Johnson, E. O. (A)
 Johnson, Leslie E. (A)

ILLINOIS (Continued)

Johnston, Ivan F. (A)
 Kara, Alexander R. (A)
 Karpuk, A. S. (A)
 Kayner, Harry J. (A)
 Keim, Jacob A. (A)
 Kelly, Earl L. (A)
 Kelsey, Elizabeth L. (A)
 Kempf, Frank J. (A)
 Keogh, Raymond J. (A)
 Kester, Arthur S. (A)
 Knouf, Ralph J. (A)
 Knowles, Hugh S. (A)
 Koch, Earl L. (A)
 Kohler, E., Jr. (A)
 Kolar, Edward F. (A)
 Koutnik, J. A. (A)
 Kramer, Andrew W. (A)
 Lagasse, Albert (A)
 Lamb, Harold A. (A)
 Lanterman, Walter F. (A)
 Larson, John M. (A)
 Lazar, Joseph H. (A)
 Lehnert, Frank H. (A)
 Leidy, W. J. (A)
 Levin, Sam (A)
 Lewis, John H., Jr. (A)
 Liebhart, Glenn R. (J)
 Limberg, R. A. (A)
 Lorch, George H. (A)
 Lotter, John G. (A)
 Lutgens, Howard C. (A)
 Mack, George (A)
 Magos, John P. (A)
 Marco, Frederick J. (M)
 Marshall, Charles E. (A)
 Martens, Ray L. (A)
 Martin, E. F. (A)
 McCarthy, F. M. (A)
 McGregor, Arthur M. (A)
 McJilton, De Witt (A)
 McMaster, A. J. (A)
 Mead, Leo R. (A)
 Meinhard, Herman (A)
 Michael, Charles (A)
 Michalowicz, Leon V. (A)
 Michelis, Rudolph P. (A)
 Miles, William E. (A)
 Miller, Donald H. (A)
 Miller, Paul E. (A)
 Mills, Elmer E. (A)
 Mills, Vern D. (A)
 Minnium, Byron B. (A)
 Moore, James S. (A)
 Morey, W. J. (A)
 Morris, Carleton D. (M)
 Morris, John F. (A)
 Mueller, Eugene L. (A)
 Muirhead, John E. (A)
 Nichols, Dwight O. (A)
 Nordhaus, Chas. H. (A)
 Nourse, Philip R. (A)
 Novak, Joe J. (A)
 O'Brien, William J. (A)
 O'Byrne, Leo C. (A)
 O'Callaghan, Jerome J. (A)
 Ostrand, Ansel G. (A)
 Owens, Robert F. (A)
 Oxner, Edwin K. (A)
 Paelig, Theodore H. (A)
 Parisek, Edward E. (A)
 Passow, Edward B. (A)
 Patterson, Joseph A. (A)
 Paul, Geo. Stewart (A)
 Peckoshi, Antone J. (A)
 Perrotta, Dominic (A)
 Petersen, Howard E. (A)
 Petzing, Erwin W. (A)
 Pew, Richard K. (A)
 Pickett, C. E. (A)
 Pletka, James (A)
 Plotts, Ellery L. (A)
 Polydoroff, W. J. (M)
 Pope, Fiore J. (A)
 Prentiss, John G. (A)
 Quist, William G. (A)
 Rafferty, Frank A. (M)
 Ramm, Carl H. (A)
 Randall, Harris K. (A)
 Reed, Clifford J. (A)
 Reesor, Delbert A. (A)
 Remde, Jack (A)
 Reynolds, George E. (A)
 Rice, Robert E. (A)
 Riddel, O. A. (A)
 Rodriguez, Alexander E. (A)
 Rose, Joseph K. (A)
 Ross, Kenneth B. (A)
 Roth, Jesse E. (A)
 Rowe, Thomas L. (A)
 Royal, Roscoe (A)
 Ruskin, Henry (A)
 Ruszkiewicz, Leo (A)
 St. James, Roscoe T. (M)
 Schaefer, Harold W. (J)
 Schaper, William A. (A)
 Scherer, Geo. H., Jr. (A)
 Schnell, F. H. (M)
 Schoenwolf, Fred L. (M)
 Schor, F. W. (A)
 Schrader, Wm. A. (A)
 Schreyer, T. E. (A)
 Schuster, Amos M. (A)
 Sear, Arthur W. (A)
 Shanafelt, Lysle O. (A)
 Shaw, Robert E. (A)
 Sherk, Lynn E. (A)
 Shmied, Ernest A. (A)
 Shultise, Quido M. (A)
 Sieben, Clarence M. (A)
 Silver, McMurdo (A)
 Siovic, John E. (A)
 Sloan, Francis V. (M)
 Smith, Ernest F. (M)
 Smith, H. M. (A)
 Smith, Paul S. (A)
 Smythe, Edwin H. (M)
 Sorenson, Carl P. (A)
 Stadler, Robert (J)
 Stewart, Arthur C. (A)
 Stone, Carrington H. (M)
 Stukey, L. I. (A)
 Swisher, O. V. (A)
 Taggart, Samuel E. (A)
 Ten Cate, Arthur C. (A)
 Thinegan, E. H. (A)
 Thomas, Chas. F., Jr. (A)
 Thorsen, Orville T. (A)
 Thrun, Arthur G. (A)
 Tilden, Mearl W. (A)
 Timmings, Geo. H. (A)
 Tittle, Hulbert C. (A)
 Trefry, Lawrence D. (A)
 Tulauskas, Leonard (A)
 Turner, George S. (M)
 Turner, Harry E. (A)
 Van Sichel, R. E. (A)
 Victoreen, Chas. J. (M)
 Vittellaro, Frank L. (A)
 Walgren, C. A. (A)
 Wallin, Harry E. (A)
 Wann, Richard H. (A)
 Wegner, Chas. W. (A)
 Wiegrefe, Elmer J. (A)
 Wilcox, G. M. (M)
 Willet, G. Rush (A)
 Williamson, F. E. (A)

Wilm, Carl F. (A)
 Wilson, Charles McC., Jr. (A)
 Woods, A. A. (A)
 Woodward, Clarence H. (A)
 Yoder, Raymond S. (A)
 Cicero
 Kailus, Peter C. (A)
 Decatur
 Songer, Clyde K. (A)
 Deerfield
 Carment, James M. (A)
 De Kalb
 Clark, Bayard H. (A)
 Downers Grove
 Allen, Justus (A)
 Johnson, Arthur R. (A)
 McDonnell, Walter J. (A)
 Moffet, I. C. Roy, Jr. (A)
 Vance, H. C. (M)
 East St. Louis
 Reiss, Paul E. (A)
 Elgin
 Kadow, A. C. (A)
 Meyers, Carl J. (A)
 Elmhurst
 Hercher, F. J. (A)
 Kennedy, Edward J. (A)
 Kranz, Herman E. (M)
 Landon, Vernon D. (M)
 Lindsay, Walter R. (A)
 Walter, L. B. (A)
 Evanston
 Butow, Alvin J. (A)
 Christopherson, Frederick (A)
 Clarke, R. E. (A)
 Fisk, Lawrence S. (A)
 Stein, Harold A. (A)
 Forest Park
 Ewald, Fred J., Jr. (A)
 Shabino, Clarke L. (A)
 Freeport
 Meyer, Winston F. (A)
 Nestlerode, Boyd W. (A)
 O'Connell, Gerald (A)
 Galesburg
 Sprague, Barbara R. (J)
 Geneva
 Anderson, C. Albin (A)
 McIlvaine, Oran T. (M)
 Glencoe
 Marsh, Carlton H. (A)
 Glen Ellyn
 MacCoanack, Edwin A. (A)
 Pieri, Donald (M)
 Glenview
 Little, De Motte H. (A)
 Harrisburg
 Schonert, K. E. (A)
 Tate, Joseph R. (A)
 Highland Park
 Rolfeison, Karl E. (M)
 Tucker, G. Lloyd (A)
 Hinsdale
 Armstrong, H. M. (A)
 Browne, Theo. C. (M)
 Doyle, E. J. (A)
 Hill, Frederick A. (A)
 Tours, F. B. (A)
 Kenilworth
 Lahman, Wilford C. (A)

ILLINOIS (Continued)

Kewanee
Larson, Clifford L. (A)

La Grange
Beckley, John G. (A)
Engst, Norbert K. (A)
Hofert, Fred A. (A)

Lake Bluff
Olesen, Harold L. (M)

La Salle
Olinger, Robert (A)
Strout, Everett M. (A)

Litchfield
Weller, Earl Selwyn (J)

Lockport
Carter, O. M. (A)

Lombard
Puhalski, Donald (A)

Macomb
Eller, Walter H. (M)
Snowden, P. T. (A)

Marion
Alley, Kenneth G. (A)

Maywood
Kamin, Vernon A. (A)
Teunisson, John F. (A)

Moline
Aymar, Erwin (A)

Mount Prospect
Gustafson, Gilbert E. (A)

Naperville
Stoos, Joseph A. (A)

Nokomis
Tickus, Louis J. (J)

North Chicago
Dady, Arthur O. (A)

Oak Park
Albee, Norman E. (A)
Augustine, Roy W. (M)
Bluzat, Claude R. (A)
Chase, Leslie H. (A)
Miller, John H. (M)
Nangle, W. O. (A)
Pearson, Oscar A. (M)
Pye, Harold C. (A)
Roe, Douglas J. (A)
Sveen, Erwing A. (A)
Willing, William P. (A)
Woodruff, Albert E. (A)

Park Ridge
Butterfield, Roy O., Jr. (A)
Carr, J. O. (A)
Potter, M. L. (A)
Van Nice, John H. (A)

Paw Paw
Braflet, Donald H. (A)

Pecatonica
Van Antwerp, Max C. (A)

Pekin
McGarvey, Harold R. (A)

Peoria
Janssen, John F. (A)
Shalkhauser, Eric G. (M)
Snyder, Roy A. (A)

Quincy
Wilson, A. J. (A)

Rankin
Denton, Frank O. (A)

Rantoul
Allen, Forrest G. (A)

Arnold, Thomas E. (A)
Marriner, Alfred W. (A)
Reeves, David (A)
Richard, Chas. W. (M)

River Forest
Edwards, Geo. W. (A)

Riverside
Wills, David C. (A)

Rockford
Ferdinand, Harry P. (A)
Devine, William F. (A)
Hand, Carl A. (A)
Kalin, Albert (A)
Ward, Lloyd S. (A)
Westlund, J. V. (A)

Rock Island
Foley, Jack (J)
Palmer, Pierre S. (A)
Pierce, Franklin W. (A)
Stanley, Otis J. (A)

St. Charles
Baird, Robert E. (A)
Shotwell, Harold H. (A)
Voorhaar, F. R. (A)
Weibler, Carleton T. (A)

Savanna
Graham, George W. (A)

South Chicago
Kahn, Lamos (A)
Turner, Russel S. (A)

Springfield
Holtz, Frederick C. (A)
Kunz, H. L. (A)
Numrick, Fred (A)
Parish, Eugene V. (A)
Ring, Edward F. (A)
Whannel, R. L. (A)

Stockton
Hanson, Ralph L. (A)

Streator
Licht, Henry M. (A)

Sycamore
Boynnton, F. L. (A)

Tuscola
Moulden, Roy B. (A)
Spies, Marck C. (A)

Urbana
Abel, Adam E., Jr. (A)
Brown, Hugh A. (M)
Chapman, David E. (J)
Knipp, Charles T. (M)
Morris, Lloyd P. (A)
Reich, Herbert J. (A)
Tykociner, J. T. (M)

Villa Park
Jacker, Edward W. (A)

Waukegan
Cameron, Henry L., Jr. (A)
Herrmann, Albert, Jr. (J)
Weeks, Robert H. (A)

Western Springs
Detrick, Harold M. (A)
Pomy, Herman J. (A)
Scott, Kenneth L. (A)

West Liberty
Waddell, George G. (A)

Wheaton
Matthews, Geo. D. (A)
Roman, Frank E. (J)
Taylor, Hawley O. (M)

Wilmette
Burrows, Fred A. (A)

Howard, Austin A. (M)
Manly, Harold P. (A)
Orner, Ralph J. (A)
Wolcott, C. F. (A)

Winnetka
Gregory, Charlotte C. (A)
Hinson, Marcus W. (A)
Mooney, Raymond (A)

INDIANA

Albion
Evans, Harry R. (A)

Anderson
McKee, Addison L. (A)
Miller, Louis (A)
Wend, Clyde G. (A)

Angola
Johnson, H. Frank (A)
Lemkin, Harold J. (A)

Aurora
Achatz, Raymond V. (A)

Bloomington
Hershman, J. B. (A)
Ramsey, R. R. (M)

Crown Point
Hall, Fred F. (A)

Elkhart
Haselwood, W. E. (A)
May, Frank Darrell (A)
Shellenger, N. C. (A)

Evansville
Moutoux, Edwin G. (A)
Norwood, Vandle C. (A)
Rowland, Stirman (A)
Travis, Francis E. (A)

Fort Wayne
Campbell, Winiferd H. (A)
Cook, Edward H. (A)
Dempster, Burgess (A)
Fischer, Fred W. (A)
Jones, Richard B. (A)
Kranz, F. W. (A)
Ratts, Bruce H. (A)
Rekart, Arthur F. (A)
Schryver, Henry A. (A)
Wise, Clarence E. (A)

Gary
Gunther, W. J. (A)
Molony, John D. (A)

Goshen
Rieth, Harold (A)

Hobart
Barnes, Harry C. (J)

Indianapolis
Albershardt, Milton (A)
Barnett, Louis W. (A)
Dutton, Charles E. (A)
Garstang, Wm. W. (A)
Guthell, Charles M. (A)
Manchester, R. M. (A)
Reager, A. M. (A)

Kokomo
Dawson, Francis A. (A)

Lafayette
Stafford, J. W. (M)
West, Glenn Edwin (M)

Linnsburg
Doyel, Lee Conan (A)

Marion
Boji, Louis D. (A)
Emerson, Kenneth H. (A)
Foster, Dudley E. (A)

INDIANA (Continued)

Herrold, George V. (A)
Jarvis, Kenneth W. (M)
Pressley, Jackson H. (F)

Monroeville
Hoffman, Walter H. (A)

Morocco
Davis, Edmonston J. (A)

Oakland City
Harper, Everett L. (J)

Parker
Clark, Lee B. (A)

Princeton
McConnell, Roy E. (A)

Richmond
Worley, Jacob M. (A)

Rushville
Cox, Wallace (A)
Russell, Merwyn A. (A)

South Bend
Bouchard, I. H. (A)
Crockett, David R. (A)
Gebhardt, Paul B. (A)
Heimberger, Albert E. (A)
Henry, Charles C. (A)
Kahn, Albert R. (A)
Kennedy, James P. (A)
McNamee, B. F. (A)
Uleman, Turrell (J)

Sweetser
Myers, Delbert (A)

Terre Haute
Hunter, Theo. A. (A)

Tipton
Gaiser, Martin (J)

Valparaiso
Briggs, Lawrence W. (A)
Bringhurst, Elden S. (A)
Cummings, Wilbur H. (A)
Leigh, Charles W. (A)
Packman, M. E. (A)
Penhale, Arthur (A)
Wood, Leonard C. (A)

Wabash
Freeman, Stephen, Jr. (A)

Westfield
Brown, Wilfred E. (A)

West Lafayette
Barragan, Milo B. (A)
Tanke, Harold F. (A)
Yoder, Leo E. (A)

IOWA

Adair
Williams, Gerald R. (A)

Ames
Andersen, Donald (J)
Lewis, John R. (J)

Cedar Rapids
Collins, Arthur A. (J)
Fink, Jack (A)
Hajny, George F. (A)
Martz, Forrest W. (J)

Clarinda
Whitnah, R. B. (J)

Council Bluffs
Fisher, H. R. (A)

Davenport
Ehlers, Paul (A)
Elliott, Frank W. (A)
Snyder, Reed E. (A)

Speers, John C. (A)
Stauffer, Ray E. (A)
Wildman, Thos. S. (A)

Des Moines
Anderson, J. Sumner (A)
Haigh, M. C. (A)
Hoselton, Frank B. (A)
Hutchison, Sam T. (A)
Peavey, Everett A. (J)

De Witt
Martin, Ray L. (A)

Diagonal
McCartney, Max (A)

Douds
Greenfield, Daniel C. (J)

Eatherville
Center, Edgar R. (A)

Fort Dodge
Willits, Andrew A. (A)

Iowa City
Griffith, Paul E. (A)
O'Brien, Elwin J. (A)
Potter, James L. (A)

Mason City
Strandjord, Millard F. (A)

McGregor
Woods, T. De Witt (A)

Monticello
Burrichter, Donald E. (J)

Oakdale
Crozier, W. D. (A)

Onslow
Koon, Cecil L. (A)

Shenandoah
Coonley, F. A. W. (A)
Rapp, John Cyril (A)

Sioux City
Coates, Frank M. (A)
Morris, Thomas J. (A)

Wapello
Fry, Lloyd L. (A)

Waterloo
Wilcox, Nathan (A)

KANSAS

Abilene
Brewer, Noble E. (A)

Arkansas City
Sigler, F. M. (A)

Atchison
Moore, Eugene A. (A)

Ellis
Harrison, Louis A. (A)

Emporia
Miller, R. F. (A)

Fort Scott
Hess, Howard H. (A)

Independence
Elliott, Ralph W. (A)

Iola
Major, A. R. (A)

Kansas City
Francis Thomas L. (A)

Lawrence
Omer, Guy C., Jr. (J)
Wheeler, Frederick (J)

Leavenworth
Hageman, Oliver C. (A)

Manhattan
Allen, John H. (J)

Bueche, Harry S. (A)
Compton, Robin D. (A)
Delamater, Frank A. (J)
Whan, Loren H., Jr. (A)

Milford
Pyle, Kempster W. (A)

Salina
Webster, Glenn E. (A)

Topeka
Beasley, William A. (A)
Cook, John W. (A)
McFarland, Wm. F. (A)
Troeglen, Karl, Jr. (A)

Wichita
Byers, Harrison O. (A)
Demuth, G. W. (J)
Marshall, George E. (A)
Mitchell, G. A. (A)
Mitchell, Theo. R. (A)
Newman, Wilbur C. (A)

Winfield
Baden, Martin W. (A)

KENTUCKY

Ashland
Carr, Edward M. (A)

Covington
Bryant, William (A)
Heffernan, S. K. (A)
Reid, Ralph J. (A)

Hopkinsville
Grimwood, Fred O. (A)

Lexington
McCammon, Donald (A)
Tillett, Jesse (A)

Louisville
Graft, J. Emmet (A)

Newport
Kolo, R. E. (A)
Richards, Amyle P. (A)
Willard, Walter C. (A)

Owensboro
Bain, George W. (A)
River, Carl J. (A)
Field, Robert W. (A)
Kirk, Walter C. (A)
Koechel, W. P. (A)
Waugh, George T. (A)

Paducah
Shelton, R. W. (A)
Sims, Cloyd G. (A)

Winchester
Walker, Frank (A)

LOUISIANA

Baton Rouge
Carleton, Thomas F. (A)
Lurry, Thomas M. (A)
McCarroll, Geo. M. (A)
Webre, Andrew S. (A)

Lake Charles
Lake, Thornton G. (J)

Monroe
Mask, Winfred B. (A)

New Orleans
Adler, Leonard E. (A)
Chateau, Arthur (A)
Christy, Edmund H. (A)
Clemmons, Wallace A. (A)
Collins, John F. (A)
Courtenay, Justin A. (A)
Deiler, Theodore G. (M)

LOUISIANA (Continued)

du Treil, L. J. N. (M)
 Gallo, Louis J. (M)
 Goldstein, Henry R. (A)
 Hart, M. E. (A)
 Hilgedick, W. C. (A)
 Hymel, L. F. (A)
 Jones, Edward T. (M)
 Jordan, Chester H. (A)
 Lehde, Pendleton E. (F)
 Long, Edwin G. (A)
 Macke, William (A)
 Mater, Otto T. (A)
 McCabe, Louis L. (A)
 Moore, Frank C. (A)
 Pasquet, Jean E. (A)
 Peirce, George H. (A)
 Peters, C. W. (A)
 Salzer, H. S. (A)
 Salzer, Herman M. (A)
 Scheffer, Roy J. (A)
 Schiele, Anton A. (A)
 Stevens, William J. (A)
 Voegtlin, Elmo (A)

Shreveport
 Claycomb, Hugh (A)
 Temple, John M. (A)

MAINE

Bangor
 Gustin, Richard W. (A)
 Hertz, Leslie C. (A)
 Kellom, Bernard (A)
 Mullaney, John R. (A)
 Spates, James L. (A)

Bar Harbor
 Tumlison, James F. (A)

Brunswick
 Little, Noel C. (A)

Houlton
 Thrush, Paul W. (A)
 Willes, Emerson T. (A)

Northeast Harbor
 Knowles, Jerome H., Jr. (A)

Orono
 Creamer, W. J., Jr. (A)

Portland
 Collins, Lewis R. (A)
 Rice, Harold E. (A)
 Ryall, Henry (J)
 Wallgren, Alric E. (A)

Rockland
 Fickett, Louis W. (A)

South Portland
 Cobb, Stanley W. (A)

Wells
 Littlefield, R. W. (A)

MARYLAND

Aberdeen
 Brown, W. Craig (A)

Annapolis
 Howard, David G. (A)
 Giet, G. Robert (M)
 Kitchin, Howard W. (M)
 North, J. Harold (A)
 Robinson, Gordon D. (A)

Baltimore
 Allen, John E. (A)
 Allner, Frederick A. (A)
 Bassford, Sydney W., Jr. (A)
 Berman, Henry O. (A)
 Clark, Lloyd W. (A)

Cohen, Hyman A. (A)
 Collins, Laurence H. (A)
 Cooke, Gerald W. (A)
 Dudley, Charles B., Jr. (A)
 Eckels, August E. (A)
 Ellert, Charles A. (A)
 Fetsch, Jos. T., Jr. (A)
 Goldstein, Maxwell K. (A)
 Graf, Herman, Jr. (A)
 Hannah, George M. (A)
 Harris, Clifford C. (A)
 Herndon, Landon C. (M)
 Houston, G. Porter, III (A)
 Krebs, William N. (A)
 Lange, Edward H. (A)
 Mahone, George A. (A)
 Mathers, Earl S. (A)
 Miller, J. Purnell (A)
 Nopper, Carlton G. (A)
 Petersen, F. T. (A)
 Ranit, William Q. (A)
 Ridenour, Wm. S. (A)
 Rosso, Thomas (A)
 Schultz, James (A)
 Seitz, J. Fred (A)
 Sterling, George E. (M)
 Taylor, William E. (A)
 Vacek, George J. (A)

Bethesda

Rush, George P. (M)
 Hanson, Malcolm P. (M)

Chevy Chase

Brady, John B. (M)
 Dellinger, J. H. (F)
 Gross, Gerald C. (M)
 Kelley, Geo. W., Jr. (A)
 Walls, Hoy J. (M)
 Wells, Harry W. (A)
 White, Edwin L. (M)

Curtis Bay

Dillow, Arthur P. (A)

Edgewater

Robison, Samuel S. (F)

Hyattsville

Eisenhauer, Harry D. (A)

Lyon, Harry H. (A)

Linthicum Heights

Monteith, J. W. (A)

Salisbury

Perry, James E. (A)

Powell, Levin D. (A)

Silver Spring

Koehne, Ira C. (A)

Mertie, J. B., Jr. (A)

Quaintance, Leland C. (A)

Terrell, Robert L. (A)

Thomsen, Paul H. (A)

MASSACHUSETTS

Allston
 Becker, Carl Wm. (A)
 Cook, Wilbert H. (A)

Andover
 Morgan, Howard K. (A)

Arlington
 Benham, Harold J. (A)
 Morrison, E. J. W. (A)
 Shea, Richard F. (A)
 Lamson, Horatio W. (M)

Arlington Heights
 Dallin, Edwin B. (M)

Lamson, Horatio W. (M)

Ashmont
 Mullen, Joseph A. (A)

Atlantic
 Brown, George W. (A)
 Heap, Sheldon S. (A)
 Moses, John P. (A)

Auburndale
 Clapp, James K. (M)

Belmont
 Anthony, A. W., Jr. (A)
 Dolbear, Benj. L. (M)
 Gleason, Harold H. (A)
 Grant, Lawrence E. (A)
 Lane, Henry M. (M)
 Le Van, James D. (A)
 Newton, W. W. (A)

Beverly
 Appleton, Samuel (A)
 Colby, Edward B. (A)
 Engel, Francis H. (M)
 O'Neill, George D. (A)
 Porter, Roland G. (A)
 Woodbury, Stephen E. (A)

Boston
 Baird, Hollis S. (A)
 Baldwin, Frank H. (A)
 Baudino, Joseph E. (A)
 Bauer, Paul S. (A)
 Beakes, William E. (M)
 Black, Oliver M. (A)
 Boyden, Davis S. (A)
 Butt, Harvey R. (A)
 Cabot, George E. (M)
 Campbell, Donald W. (A)

Carson, Walter E. (A)
 Christides, Stratis C. (A)
 Chubb, William M. (A)
 Cumming, L. Gordon (A)
 De Mars, Paul A. (M)
 Emery, Ralph C. (A)
 Harris, C. C. (M)
 Haskins, Rupert L. (A)
 Hayes, Hammond V. (A)

Hurd, Volney D. (A)
 Mann, Hayward K. (A)
 Nunez, F. J. (A)
 Oliver, George E. (M)
 Parnagian, Aram (A)
 Pitts, Francis D. (A)
 Putnam, John P. (A)
 Rines, David (A)
 Rosenwald, Edwin D. (A)

Rothberg, Joseph (A)
 Stone, C. W. (A)
 Weston, Irving L. (A)

Bradford
 Knowlton, Robert G. (A)

Braintree
 Robinson, Philip F. (A)

Brighton
 Atwood, Ralph F. (A)
 McGaughey, P. C. (A)
 Wallace, Gordon S. (A)
 Yurt, F. X. (A)

Brockton
 Sampson, E. J. F. (J)

Brookline
 Cabot, Sewell (M)
 Fitts, Lincoln W. (A)
 Ready, William A. (A)

MASSACHUSETTS (Cont.)

Sampson, George L. (A)
 Weeks, Miles W. (A)

Cambridge
 Arnold, Prescott N. (A)
 Barrow, W. L. (A)
 Batchelder, Laurence (A)
 Bousquet, Arthur G. (A)
 Bowles, Edward L. (M)
 Burke, Charles T. (M)
 Chaffee, E. Leon (F)
 Crawford, John D. (A)
 Dawes, Howard H. (A)
 Eastham, Melville (F)
 Fahnestock, Harris, Jr. (A)

Gager, F. Malcolm (A)
 Garceau, Ernest L. (A)
 Herve, John P. (A)
 Hickman, Roger W. (A)
 Hisamoto, Masyauki (A)
 Hok, Gunnar (A)
 Horton, J. Warren (F)
 Hunt, Frederick V. (A)
 Ide, John M. (A)
 Jacobson, Larry (J)
 Jen, C. K. (A)
 Johnson, Montgomery H., Jr. (A)

Karplus, Eduard (A)
 Kear, Frank G. (M)
 Knelly, Arthur E. (F)
 McElroy, Paul K. (F)
 Mimno, Harry R. (A)
 Noyes, Atherton, Jr. (A)
 Phillips, Henry B. (M)
 Pierce, George W. (F)
 Pilkington, E. J. (A)
 Richmond, Harold B. (F)
 Spike, J. E., Jr. (A)
 Thessen, Arthur E. (M)
 Tucker, Carlton E. (A)
 Tuttle, William N. (A)
 Wang, Sherman R. (A)
 Wear, John (A)
 Weeks, Paul T. (M)
 Wildes, Karl L. (A)
 Woodrow, Jas. A. S. (A)
 Worthen, Chas. E. (A)

Chatham
 Robinson, Forrest D. (A)

Chestnut Hill
 Dellenbaugh, F. S., Jr. (M)

Chicopee Falls
 Davis, R. L. (A)
 Eldredge, Frank E. (M)
 Ellsworth, Wm. C. (A)
 Gough, John H. (A)
 Harlow, Fred G. (A)
 Kinsman, Warren D. (A)
 Laport, Edmund A. (M)
 Lee, Donald C. (A)
 Little, Donald G. (F)
 Miller, Harold R. (A)
 Moatz, Daniel R. (A)
 Mundie, Evan M. (J)

Cliftondale
 Tripp, Augustus B. (A)

Cohasset
 Gagnebin, Wm. B. (A)

Concord
 Hall, Henry D. (A)

Danvers
 Turenne, Wilfred J. (A)
 Walker, Charles M. (A)

Dennis Port
 Skinner, Oscar E. (A)

Dorchester

Barry, Francis J. (A)
 Berkowitz, Louis (J)
 Chessler, Maxwell A. (A)
 Clarke, Ralph S. (A)
 Feldman, Sarley M. (A)
 Freedman, John L. (A)
 Hardy, Carroll N. (A)
 O'Shea, Charles J. (A)
 Purssell, Clarence V. (A)

East Boston
 Surette, Dennis C. (A)

East Pepperell
 Hills, Eugene K. (J)

East Springfield
 Hurff, Joseph L. (A)
 Trigger, Vernon A. (A)

Everett
 Meredith, Wm. B. (A)
 Pratt, P. W. (A)
 Zwicker, Howard H. (A)

Fall River
 Bowen, Harold C. (A)
 Walsh, Philip S. (A)

Fitchburg
 Wiimikka, Arthur O. (J)

Framingham
 Forbes, Eugene D. (F)
 Macadam, Mark L. (A)

Gloucester
 Adams, John C. (A)
 Hammond, John Hays, Jr. (M)
 Hoyt, Edward C. (J)

Great Barrington
 Barkley, Howard F. (A)
 Parrish, Robert R. (A)

Hamilton
 Dane, Francis W. (M)

Haverhill
 Dyer, John Newton (J)
 Kochakian, Leo (A)

Hingham
 Phelps, Roger E. (A)
 Williams, Laurence P. (A)

Hingham Center
 Pratt, Fearing (A)

Holyoke
 Klemm, Robt. C., Jr. (A)

Hudson
 Groves, Ernest F. (A)

Hyannis
 Stanko, Edward (A)

Hyde Park
 Gould, Wm. B., III (A)

Jamaica Plain
 Canner, William (A)
 Hazard, Willis G. (A)
 Mayer, Arthur W. (A)

Lawrence
 Frank, Charles W. (A)
 Geloso, John (A)
 Maxwell, John F. (A)
 Montgomery, J. Leonard (A)

Lexington
 Bowker, Winthrop H. (A)
 Chute, Dudley H. (A)
 Johnson, Charles A. (A)

Lowell
 Martel, Charles W. (A)
 Morton, Clarence F. (A)

Lynn
 Abrahams, S. L. (A)
 Le Bel, C. J. (A)
 Mayo, Royal E. (A)
 Peckham, J. H. (A)

Malden
 Bacon, Dana H. (A)
 Millen, James (A)
 Worthley, Herbert O. (A)

Mansfield
 Dean, Leon W. (A)

Marion
 MacLean, Kenneth G. (A)
 Rau, David S. (A)

Mattapan
 Weber, Harold C. (A)

Medford
 Cook, Bernard L. (A)
 Wyman, R. C. (A)

Melrose
 Hubbard, Beverly R. (A)
 Jenson, Warren F. (A)
 Philbrick, Laurence S. (A)

Milford
 Corbett, Walter E. (A)

Milton
 Hoard, Norman F. (A)

Needham
 Keim, J. D. (A)

New Bedford
 Catterall, John (A)
 Hodgdon, Herbert J. (A)
 Vermilya, Irving (M)
 Wilson, Walter B. (A)

Newton
 Briggs, Thomas H., IV (A)
 Colby, Chas. C., Jr. (A)
 Nelson, James R. (M)
 Sivigny, Alfred J. (A)

Newton Center
 Miller, William T. (A)
 Pickard, Greenleaf W. (F)

North Adams
 Rickey, Lawrence (A)
 Steen, J. Ralph (A)

North Andover
 Lemieux, Charles J. (A)

North Attleboro
 Barret, Herman R. (A)

Northbridge
 Waite, Samuel A. (A)

North Weymouth
 Hollis, Hammond H. (A)
 Imlach, George (A)

Oak Bluffs
 Horne, William P. (A)

Osterville
 Chesbro, Albert L. (A)

Oxford
 Browning, Elliot A. (J)

Quincy
 Miller, Olin F., Jr. (A)

MASSACHUSETTS (Cont.)

- Nolan, James J. (M)
Renton, Ralph Jas. (A)
- Revere
Gelardi, Matthew (A)
- Rockport
Mills, William P. (A)
- Roslindale
Van Brocklin, William S. (A)
- Rowley
Hoopes, Thomas T. (A)
- Roxbury
Ashenden, G. K., Jr. (A)
Gerber, Nathan (A)
Giro, Daniel J. (A)
- Salem
Bolan, Robert S. (A)
Chagnon, M. L. (A)
Hamilton, Hugh, Jr. (A)
Leblanc, William A. (A)
Poor, Walter E. (A)
Porter, Ralph H. (A)
Rockwood, Alan C. (M)
- Siasconset
Holden, Harry H. (A)
- Silver Lake
Stein, Adam, Jr. (F)
- Somerville
Parker, Wm. H., Jr. (A)
Root, Leland B. (M)
- South Boston
O'Donnell, E. T. (A)
- South Braintree
Serreze, Victor C. (A)
- Southbridge
Wells, John M. (A)
- South Dartmouth
Chinn, Howard A. (A)
Hendricks, Paul S. (A)
Houghton, Henry G., Jr. (A)
- Springfield
Applegate, Homer E. (A)
Beard, J. Gregson (M)
Bock, Ashley P. (M)
Bond, M. E. (A)
Bowmaster, J. M. (A)
Boyd, Bruce (A)
Bruce, Birger (A)
Bruce, Ragnar (A)
Cameron, J. A. (A)
Cole, Neil D. (A)
Cotter, William F. (A)
Creaser, Isaiah (A)
Curtis, Leslie F. (M)
Cushing, T. Frank (A)
Der Bedrossyan, Mark (A)
French, Benedict V. K. (M)
Garvey, Edmond (A)
Gilliatt, Leland W. (A)
Greis, W. Karl (A)
Henderson, Ken L. (A)
Hewinson, Earl G. (A)
Holt, Hillis W. (A)
Hutcheson, John A. (M)
Kowalczyk, Wm. J. (A)
Lavallee, J. A. (M)
Madsen, Carl J. (A)
Nystrom, R. A. (A)
Raskhodoff, Nicholas (A)
Russ, George H. (A)
Stuckert, E. M. (A)
- Thomas, Harry E. (A)
Valentine, Francis B. (A)
Walker, C. L. (A)
Weber, C. A. M. (A)
- Stow
Kaulback, Harold D. (A)
- Swampscott
Humphrey, Stanley M. (A)
- Taunton
Tracy, John B., Jr. (A)
- Tufts College
Harrison, Jamison R. (A)
Kendrick, Gleason W. (M)
- Wakefield
Kindt, Mark (A)
- Waltham
Anderson, Homer G. (A)
Grenier, Henry N. (A)
- Watertown
Bareiss, Max (M)
Field, Robert F. (M)
- Wellesley
McDowell, Louise S. (M)
Russell, Robert D. (A)
Wilder, Marshall P. (A)
- Wellesley Farms
Hills, Chas. E., Jr. (A)
- West Millbury
Day, Ralph P. (A)
- Weston
Bent, Arthur E. (A)
- West Roxbury
Wolf, Edwin A. (A)
- West Somerville
Dillaby, Edwin F. (A)
Ekstrand, E. B. (A)
Kolster, Charles C. (M)
- West Springfield
Hallein, John, Jr. (A)
Sateren, M. G. (A)
- Williamstown
Clark, R. U. (A)
- Winchester
Allen, Albert (A)
Browning, Glenn H. (M)
Burgoyne, Roger M. (A)
Page, Newell C. (A)
- Wollaston
Greene, Lloyd C. (A)
Hoffman, E. F. (A)
McGrath, Jos. L. (A)
Sigmon, L. C. (A)
Waite, Amory H., Jr. (A)
- Woods Hole
Speirs, George E. (A)
- Worcester
Anderson, Paul E. (A)
Bates, Lee A. (A)
Cohen, Monte (A)
Gleason, Albert E. (A)
Godfrey, James S. (A)
Gruzin, Herman A. (J)
Hakam, Samuel (A)
Joseph, J. Bernard (A)
Newell, Hobart H. (M)

MICHIGAN

- Ann Arbor
Campbell, Geo. R. (A)
Chipman, Stuart E. (A)
Fuller, Lyman D. (A)

- Holland, Lewis N. (A)
Palmer, Edward D. (A)
Parkinson, Taintor (A)
Wilbur, Donald A. (A)
Williams, N. H. (A)
- Battle Creek
Doty, W. E. (A)
Fay, Lewis C. (A)
Roof, Raymond B. (A)
- Bay City
Carpenter, Ralph H. (A)
Thompson, Robt. W. (A)
- Bessemer
Faulh, William B. (A)
- Birmingham
Stahl, Theodore H. (A)
- Dearborn
Knight, Donald M. (A)
- Detroit
Adams, Richard A. (A)
Almas, Stan L. (A)
Baxter, Charles E. (A)
Bennett, Donald P. (A)
Blett, E. Barton (A)
Blumenthal, Raymond W. (A)
Bond, Orville J. (A)
Bradley, F. W. (A)
Brown, Jesse E. (M)
Buchanan, Arthur B. (A)
Byram, F. Cameron (A)
Carter, George W. (M)
Clark, Ralph L. (A)
Clark, Thomas E. (M)
Courtis, Reginald P. (A)
Davis, Chester (A)
Davis, Irving C. (A)
Densteadt, Edwin C. (A)
Evans, Richard C. (A)
Faulkner, Douglas (A)
Firestone, Samuel (A)
Friedenthal, Andrew (A)
Gasparovitch, Stephen (A)
Gildemeyer, F. H. (A)
Goldman, Sherman (A)
Green, Walter M. (A)
Griva, John (A)
Grote, Ernest A. (A)
Grove, George A. (A)
Haire, A. F. (A)
Harding, Lawrence M. (A)
Hoffman, Walter R. (A)
Howey, William J. (A)
Jackson, C. H. (A)
Joy, Henry B. (A)
Kaserman, Frank S. (A)
Kirby, Otto I. (A)
Kratokvil, Frank M. (A)
Lang, Louis B. (A)
Macellan, Colin P. (A)
Malo, Charles D. (A)
Manning, Stanley R. (A)
McCaffry, James A. (A)
Osborne, Robert L. (A)
Oubteen, Andrew N. (A)
Porter, Samuel (A)
Putnam, Erle T. (A)
Richie, S. M. (A)
Riemenbergh, C. Morgan (A)
Russ, John A. (A)
Scanlan, Richard J. (A)
Schmalzriedt, T. (A)
Seielstad, Harold (A)
Sellers, Jack D. (A)
Serge, Igor B. (M)
Seymour, Fred M. (A)

MICHIGAN (Continued)

- Sheridan, Russel J. (A)
Smith, Frank J. (A)
Stansfield, Selwyn (A)
Steinhauser, Clarence J. (A)
Stormzand, Harold A. (A)
Sturman, George G. (A)
Thomas, Walter J. (A)
Tomchuck, John (J)
Trittenbach, John M. P. (A)
Truesdale, James R. (A)
Waynick, Arthur H. (A)
Wendler, E. A. (A)
Worel, Frank (A)
- East Lansing
Murray, William A. (A)
Osborn, Burr K. (A)
- Fenton
Dobbs, F. W. (A)
- Flint
Blanford, Edwin C. (A)
Fallain, Frank D. (A)
Lathrop, F. A. (A)
Raab, Edwin (A)
- Frankfort
Hopper, C. L. (A)
- Gladstone
Peterson, W. Earl (A)
- Grand Rapids
Andres, Lloyd J. (A)
Goebel, Eugene S. (A)
Newland, Chas. W. (A)
- Grosse Pointe Park
Smith, Walter C. (A)
- Harbor Springs
Wright, Willford C. (J)
- Highland Park
Byerlay, H. Le Roy (A)
Collins, Frederick V. (A)
Glatzel, Earle D. (A)
Gould, Howard S. (A)
- Holland
Tysse, Henry L. (A)
- Jackson
Atkins, Carl Edward (J)
Bailey, Neil (A)
Gottier, Thomas L. (A)
Pacholke, Fred (A)
Planck, R. M. (A)
Rich, C. E. (A)
Riethmiller, Earl R. (A)
Volkenant, Gordon W. (A)
Ward, Donald H. (A)
Whitlock, Fred (A)
- Kalamazoo
Evans, Nicholas O. (A)
Fetzer, John E. (M)
Rector, Edwin W. (J)
- Lansing
Barnwell, Walter J. (A)
Graham, Herbert T. (A)
Wells, Lawrence V. (A)
Willis, Ellsworth D. (A)
- Lincoln Park
Moore, J. Burton (A)
- Ludington
Fenton, Kenneth G. (J)
Szabo, Paul (A)
- Manistee
Halliday, Lew R. (A)
- Menominee
Westervelt, H. P. (A)
- Midland
Mathison, Gerald (A)
- Mount Clemens
Sonnenberg, John H. (A)
Wendler, Erwin H., Jr. (A)
- Muskegon
Fonger, C. Irwin (A)
Hewitt, C. Tefft (A)
Lowe, Carr E. (A)
Schwarz, Harvey F. (A)
- Oxford
Capron, E. S. (A)
- Pontiac
Clark, Robert K. (A)
Stolzenbach, R. W. (A)
- Port Huron
Brown, Kenneth L. (A)
Fountain, J. Clarence (A)
- Royal Oak
Ludvigsen, Leonard E. (J)
- Sault Sainte Marie
Smith, Rex B. (A)
- Scottville
Krivitsky, George (A)
- South Haven
Arthur, Ralph L. (A)
Bennett, Maurice C. (A)
Crossley, Alfred (M)
Hansen, Leland S. (A)
Hollands, Louis C. (A)
Jorgenson, Harold (A)
- Williamston
Love, Bert E. (A)
- Ypsilanti
Augustus, Lee, M. (A)
- MINNESOTA
- Anoka
Collier, George X. M. (A)
- Baudette
Gjelhaug, John A. (A)
- Bemidji
Distad, Merrill (A)
- Carver
Olson, Marvin S. (A)
- Chisholm
Ambrozich, John L. (A)
- Duluth
Richelieu, C. C. (A)
Ross, Russell H. (A)
Wesanen, Theo. E. (A)
- Edgerton
Rust, Leslie W. (A)
- Hopkins
Fuxa, Albert E. (A)
- Lakefield
Tkach, George (A)
- Minneapolis
Braun, C. M. (A)
Brooke, Robert O. (J)
Carney, Philip G. (A)
Cooke, Lawrence S. (A)
Edwards, Henry W. (A)
Fleming, Myron N. (A)
Gibbs, Earl (A)
Grogan, Leslie E. (A)
Hawley, Douglass (A)
James, V. Norval (J)
Knox, Martin E. (A)
Lefebore, Ulric A. (A)
- Lisior, Donald J. (J)
Nergaard, Leon S. (A)
Roth, Harold B. (A)
Schnell, Louis J. (A)
Smeby, Lynne C. (A)
Sweeney, Claude D. (A)
Tynan, Thomas E. (A)
Webb, J. S. (A)
Young, Sumner B. (A)
- Northfield
Culver, Charles A. (M)
- Pipestone
Port, Clyde G. (A)
- Ponsford
Cox, Hector S. (J)
- Rochester
Biltz, Francis J. (A)
- St. Paul
Coil, Neil B. (A)
Hance, Kenneth M. (A)
Heiser, Edwin S. (A)
James, Clinton W. (A)
Parsons, J. B. (A)
Skifter, Hector R. (A)
Swendsen, Lyman G. (A)
- Virginia
Haata, Theodore (A)
- Waseca
Johnson, Edgar F. (A)
- MISSISSIPPI
- Cleveland
Gibbon, Quincy D. (A)
- Corinth
Essary, William M. (A)
- Fondren
George, Edward M. (A)
- Greenwood
Fausett, Floyd (A)
- Indianola
Johnson, Vivion A. (A)
- Jackson
Drake, Chester E. (A)
Myers, James A. (A)
- Kosciusko
Sowell, George O. (A)
- Meridian
Woodruff, B. H. (A)
- Mississippi City
Pecoul, F. A. (A)
- MISSOURI
- Cape Girardeau
Hirsch, Oscar C. (A)
- Clinton
Mitchem, Fred M. (A)
- Columbia
Lewis, Earl W. (A)
Selvidge, Harner (A)
- Cuba
Moss, Terry L. (A)
- Gallatin
Payne, Kenneth (A)
- Grant City
Eggers, Earl L. (A)
- Hannibal
Cox, T. Alfred (J)
- Hughesville
Rissler, Harold D. (A)
- Independence
Brennan, J. W. (A)
Church, Arthur B. (A)
Moler, A. R. (A)

- MISSOURI (Continued)**
Jefferson City
 Corwin, Willis P. (A)
 Fish, Clarence A. (A)
Kansas City
 Bradbury, G. V. (A)
 Cook, Ellis C. (A)
 Cook, Frank W. (A)
 Dodds, Leonard F. (A)
 Fouts, Avery L. (A)
 Goldenberg, Henry E. (A)
 Hodge, Albert Wm. (A)
 Jones, George I. (A)
 Joyce, Gilbert B. (J)
 Kent, James M. (A)
 MacDowell, Karl P. (A)
 McDonnell, Wm. I. (A)
 Obright, Alvin C. (A)
 Pitt, William (A)
 Schilling, John T. (A)
 Screechfield, R. M. (A)
 Sears, E. William (A)
 Turner, C. G. (A)
 Upham, Stuart W. (A)
 Van Gundy, Clarence (A)
 Wilcox, Jay V. (A)
 Wilson, Guy E. (A)
 Winchel, Henry T. (A)
 Wisegarver, Orton H. (A)
 Yates, Clarence C. (A)
 Young, Wm. M. K. (A)
Kearney
 Thomason, Marvin (A)
Kirksville
 Davis, Robert J. (A)
Ladonia
 Stevens, Chester (A)
Mendota
 Davis, Glen A. (A)
Nevada
 Kluth, Wm. J., Jr. (A)
Robertson
 Gray, Harold E. (M)
Rolla
 Frame, Floyd H. (A)
 Martin, J. Douglas, Jr. (J)
St. Joseph
 Abercrombie, Julius B. (A)
 Bauer, Fritz (A)
 Watts, Harold F. (A)
St. Louis
 Althoff, F. E. (A)
 Bergtold, A. L. (A)
 Browning, Roy H. (A)
 Bush, Walter S. (A)
 Ferris, Harry J. (A)
 Fillmore, Francis A. (A)
 Fowler, D. W. (A)
 Fritz, Harry R. (A)
 Goodberlet, Edward (A)
 Hicks, Herbert J. (A)
 Humphreys, Irl W. (A)
 Lauman, Louis F., Jr. (J)
 Mace, Roger D. (A)
 McDaniel, Otto S. (A)
 Nye, Earl C. (A)
 Pingree, Samuel J. (A)
 Proehl, Robert O. (A)
 Ramey, Palmer T. (A)
 Sampson, John C. (A)
 Schechter, Leo (A)
 Van Sickle, Geo. W. (A)
 Varney, Herbert G. (A)
 Walker, James H. (A)
 West, William H. (A)
 Woolley, W. C. (A)
 Zehr, Nicholas J. (A)
Springfield
 Larsen, John (A)
 Ward, G. Pearson (A)
University City
 Glasgow, Roy S. (M)
 Tevis, Graham L. (A)
Waldron
 Barker, L. T. (A)
MONTANA
Anaconda
 Antonich, Peter L. (A)
Bozeman
 Lamb, G. F. (A)
Butte
 Craney, E. B. (A)
 Cronter, Leslie E. (A)
Forsyth
 Pritchard, Charles A. (A)
 Roberson, Carl (A)
Havre
 Peters, Vern (A)
NEBRASKA
Alliance
 Sterling, M. F. (A)
Aurora
 Spencer, Albert H. (A)
Carleton
 Damm, Fred (A)
Clay Center
 Hertel, Roger H. (J)
 Swanson, Carl R. (A)
David City
 Thomas, J. C. (A)
Falls City
 Chesley, Arthur D. (A)
 Quigley, James H. (A)
Grand Island
 Anderson, Adolph (A)
 Ball, I. Dale (A)
 Edwards, S. W. (M)
 Jensen, George L. (A)
 Martin, Robert D. (A)
 Overton, George P. (A)
 Pickett, Harry D. (A)
 Rollins, George K. (A)
 Wolf, Benjamin (M)
 Wolf, Lester J. (A)
Howells
 Prucha, Ernest F. (A)
Lincoln
 Brackett, Richard T. (A)
 Harvey, H. C. (A)
 Jensen, John C. (M)
 Jensen, Robert R. (J)
 Kimberly, Harbert D. (A)
 Koch, J. Wesley (J)
 Leeman, Wilson (A)
 Norris, Ferris W. (A)
 Schultz, Harvey R. (A)
Norfolk
 Tyler, Kenneth G. (A)
North Platte
 Flebbe, Walter E. (A)
 Spencer, Herbert L. (A)
Omaha
 Badgerow, Bert E. (A)
 Crawford, J. B. (A)
 Diehl, Charles B. (A)
 Henry, Gordon I. (J)
 Herold, Joseph L. (A)
 Kotera, William J. (A)
 Laycock, Richard F. (A)
 Shirik, Kenneth C. (A)
 Stratman, Fred W. (J)
 Veverka, R. E. (A)
Scottsbluff
 Kluge, Myron E. (J)
Wahoo
 Anderson, Roland A. (A)
York
 Meyer, Albert (A)
NEVADA
Reno
 Sandorf, Irving J. (A)
NEW HAMPSHIRE
Claremont
 Hodge, V. W. (A)
Concord
 Evans, Carl B. (J)
 Holmes, Arnold (A)
Exeter
 Shaw, Henry S. (M)
Gorham
 Dodge, Joseph B. (A)
Manchester
 Ryan, M. John (A)
Northwood Ridge
 Gray, Alfred R. (A)
Portsmouth
 Martin, Julius (M)
Sunapee
 Graves, William S. (A)
Tilton
 Booth, Howard M. (M)
Woodsville
 Enderle, Jackson J. (A)
NEW JERSEY
Allenhurst
 Hickley, Thomas J. (A)
Alwood
 Hoffman, Henry J. (A)
Ampere
 Cassell, Joseph L. (A)
 Goshaw, Irl R. (A)
 Harris, Charles S. (A)
 Hund, August (F)
 Powers, Walter P. (M)
 Solomon, S. (A)
 Walter, John C. (A)
Asbury Park
 Honnell, Pierre M. (A)
Atlantic City
 Flett, William J. (A)
 Helmuth, Charles F. (A)
Audubon
 Creighton, Robt. R. (A)
 De Haven, Thos. V. (A)
 Dutton, Watson P. (A)
 Dyson, H. R. (A)
 Fisher, Norman (A)
 Geyh, Charles P. (A)
 Lehman, James N. (A)
 Manwiller, W. Guy (A)
 Pettengill, George W., Jr. (A)
 Pierson, Israel S. (A)
 Risinger, Paul (A)
 Steers, W. F. (A)
 Wallace, Martin J. (A)

- NEW JERSEY (Continued)**
Bayonne
 Richards, Paul (A)
Belleville
 Brigham, Cecil E. (M)
 Katzen, Morris (A)
Bloomfield
 Banks, Charles R. (A)
 Beidleman, Howard B. (A)
 Born, W. Theodore (A)
 Boyson, Carl V. (A)
 Caughey, Wm. K. (A)
 Cox, Alfred (A)
 Cunliffe, Paul R. (A)
 Dingley, E. N., Jr. (A)
 Haines, Donald G. (A)
 Hall, Norman C. (A)
 Hanson, Ernest R. (A)
 Henry, T. J. (A)
 Hoffman, W. Hollis (A)
 Hussey, Luther W. (A)
 Isler, Samuel (M)
 Kannenstine, Fabian M. (A)
 McClary, James P. (A)
 Mitchell, Clair D. (M)
 Peck, Gordon V. (A)
 Perkins, Wm. M. (M)
 Schoene, Russell L. (M)
 Slattery, John J. (A)
 Taber, William T. (A)
 Weaver, Karl S. (A)
 Widell, E. Gideon (M)
 Yarmack, John E. (A)
 Zimmer, Raymond M. (A)
Bogota
 Gilcher, V. J. (A)
 Oscanyan, Paul C., Jr. (A)
 Potts, John H. (A)
Boonton
 Albert, William H. (A)
 Ballantine, Stuart (F)
 Cobb, Howard L. (A)
 Coriell, Peter C. (A)
 Drake, F. H. (M)
 Ferris, Malcolm (M)
 Haas, John G. (A)
 Hughes, Everett J. (A)
 Hull, L. M. (F)
 Loughlin, Wm. D. (M)
 Morrison, John F. (A)
 Parkes, A. W., Jr. (A)
 Pittenger, Arthur W. (A)
 Seabury, Richard W. (M)
 Snow, Harold A. (A)
 Stone, G. Edgar (A)
Bound Brook
 Gullans, John H. (A)
 Haggmann, Nicklaus (A)
 Lindstrom, Arthur J. (A)
 Stair, Daniel N. (A)
Bridgeton
 Nichols, H. L. (A)
Brooklawn
 Uhlig, Erich (A)
Caldwell
 Cole, Arthur B. (M)
 Eberhard, Lawrence E. (A)
 Hotopp, Alfred H., Jr. (M)
 Merrill, Henry M. (A)
 Winans, Roswell R. (A)
Camden
 Ackerman, Milton J. (A)
 Anderson, Pierson A. (M)
 Artz, T. Maurice (A)
 Baker, W. R. G. (F)
 Barton, Fred C. (A)
 Bloomenthal, Sidney (A)
 Bokovoy, Sam A. (A)
 Boucheron, Pierre H. (M)
 Brail, Stephen L. (A)
 Burnison, James W. (A)
 Carlson, Wendell L. (A)
 Castor, Amasea H. (A)
 Creager, F. L. (A)
 Cummings, John J. (A)
 Darlington, Edgar T. (A)
 Davis, Chester E. (A)
 Demmer, A. H. (A)
 Dickey, Edward T. (M)
 Douthit, M. L. (A)
 Engstrom, Elmer W. (A)
 Garrett, Charles R. (A)
 Gerber, Paul D. (A)
 Goodrich, Robert R., II (A)
 Gunther, Clarence A. (A)
 Haigis, C. D. (A)
 Hansen, John C. (A)
 Hardin, L. L., Jr. (A)
 Hargrave, W. A. (A)
 Hoch, Arthur L. (A)
 Holden, Harold C. (A)
 Hughes, Michael S. (A)
 Hutcho, Francis J. (A)
 Johnson, Esmond E. (A)
 Jones, L. F., III. (A)
 Karcher, Edmund M. (A)
 Kerrigan, John (A)
 Koch, Winfield R. (A)
 Lehr, Rudolph (A)
 Loughren, Arthur V. (M)
 Lyndon, William L. (A)
 Maloff, Ioury G. (M)
 Massa, Frank (A)
 McClung, C. A. (A)
 McCullough, Maurice B. (A)
 McLennan, Miles Ar-yault (A)
 Mkytarian, Luther M. (A)
 Ogloblinsky, Gregory (M)
 Orr, Robert W. (A)
 Priebe, Frank (A)
 Reeber, Herman E. (A)
 Regottaz, Joseph M. (A)
 Reihman, Earl F. (A)
 Ringel, Abraham (M)
 Robb, Joseph S. (A)
 Schrader, Harold J. (A)
 Sinclair, Allan (A)
 Sweeney, Daniel J. (A)
 Tolson, W. A. (M)
 Williams, Aaron F. (A)
 Williams, Gurdon H. (A)
 Wolff, Irving (A)
Carlstadt
 Fuelling, Paul W. (A)
Cartaret
 Cox, George C. (A)
Cedar Grove
 Holborn, Fred. A. (M)
Chatham
 Kuthie, Herman K. (A)
Clementon
 Attmore, William B. (A)
Cliffside
 Dana, David W. (A)
Cliffside Park
 Nickless, William H. (A)
 Clifton
 Wheeler, C. M. (A)
 Clinton
 Wagner, Harry S. (A)
 Collingswood
 Allen, Hugh E. (M)
 Barbee, Virgil A. (A)
 Barton, Loy E. (M)
 Bedford, A. V. (A)
 Beers, G. Lisle (M)
 Bell, Richard (A)
 Berglund, E. B. (A)
 Boswell, James R. (A)
 Cerveny, J. P. (A)
 Cunningham, Thomas D. (A)
 Curtiss, Arthur N. (A)
 Daley, Raymond E. J. (A)
 Gihring, Herman E. (A)
 Grundmann, Gustave L. (A)
 Gunby, O. B. (A)
 Huddwalker, Wm. T. (A)
 Iams, Harley (A)
 James, Wallace McN. (A)
 Sherman, Kenneth S. (A)
 Stayer, David (A)
 Strasser, Edward J. (A)
 Swanson, Milton A. (A)
 Terrell, John A. (A)
 Tiedje, John O. (A)
 Turner, Alfred H. (A)
 Weible, Norman R. (A)
 Wistrup, Carl A. (A)
Cranford
 Briggs, Loyd A. (M)
 Richards, Horace J. (A)
 Smith, Wesley L. (A)
Deal
 Decino, Alfred (A)
 Eberhardt, Geo. M. (A)
 Ferrell, Enoch B. (M)
 Goodall, Wm. M. (A)
 Kerwien, Arthur E., Jr. (A)
 Schlaack, Norman F. (A)
 Schwartz, Lyle H. (A)
 Shaw, Robert C. (A)
 Skellett, A. Melvin (M)
 Smith, Phillip H. (A)
 Sowers, Nelson E. (A)
 Sterba, E. J. (A)
Denville
 Harlan, Edwin W. (A)
Dunellen
 Sommer, Emmitt H. (A)
East Orange
 Ackerman, Rudolph W. (M)
 Akers, Dallas C. (A)
 Bagnall, Vernon B. (A)
 Bohner, Chance E. (A)
 Borgeson, Carl A. (A)
 Brach, Leon S. (M)
 Brigham, Cyril A. (A)
 Brooke, E. F. (A)
 Brown, Bayne (A)
 Butler, H. R. (A)
 Canfield, Wilson R. (A)
 Clarry, Harold E. (A)
 Crawford, J. Wm. (A)
 Curtis, Austen M. (M)
 Curtis, R. C. (A)
 Dannals, Earl W. (M)
 Davenport, Ralph W. (A)
 Duncan, R. D., Jr. (M)
 Edison, Theo. M. (A)
 Gawler, Henry C. (M)
 Gerns, William H. (M)

NEW JERSEY (Continued)

- Green, Ralph W. (A)
Hiller, Harry E. (A)
Kahn, Frederick J. (M)
Kleinkauf, James D. (J)
Laube, Herbert W. (A)
Lederer, Ernest A. (M)
Lovatt, Harold S. (A)
Macalpine, Wm. W. (A)
Malcolm, John (A)
Marcy, Robert J. (A)
Miller, George A. (A)
Miller, H. P., Jr. (M)
Olsen, Eugene U. (A)
Perry, Irving D. (A)
Pickard, Richard W. (A)
Price, Harry J. (A)
Richards, Philip A. (A)
Roetken, A. A. (A)
Roush, Guy F. (A)
Shackelford, B. E. (M)
Spencer, Millard C. (A)
Stanwick, Chas. A. (A)
Toth, Emerick, (A)
Vermillion, Chas. O. (A)
Wallace, Milton W. (A)
Weston, John L. (A)
Woods, William A. (A)
Woodworth, Fred B. (A)
Woodriddle, Allen C. (A)
- Elizabeth
Brick, Frank R., Jr. (M)
Jatlow, J. L. (A)
Newell, Guy (A)
Sery, Lester (A)
Walsh, Lincoln (A)
White, Charles P. (A)
- Englewood
Ashton, John E. (A)
Emanuel, John H. (A)
Gillett, Glenn D. (M)
- Erlton
Briggs, Joseph A. (A)
Currier, Stuart E. (A)
Smith, J. P. (A)
West, Kenneth A. (A)
- Fair Lawn
Barry, Bert (A)
MacCoun, Townsend D. (A)
Martin, Devereaux (A)
Scarr, Henry F. (A)
- Fanwood
Hall, Clifford A. (A)
Todd, Harold C. (A)
- Freehold
Englund, Carl R. (F)
Hampton, Ernest C. (A)
- Glen Ridge
Clavier, A. G. (M)
Dart, Harry F. (M)
Grabo, Irving C. (A)
Umbach, Walter R. (A)
- Glen Rock
Clark, Louis E. (A)
- Gloucester
Hayes, Earl David (J)
- Grantwood
Herbst, John A. (A)
Wichern, Leonard (A)
- Guttenberg
Pramshofer, Thomas W. (A)
- Hackensack
Kersta, Laurence G. (A)
- Haddonfield
Aceto, Louie (A)
- Albright, Robert B. (A)
Barnes, John L. (A)
Blodgett, Edw. D. (A)
Brokaw, Charles A. (A)
Carpenter, Glenn W. (A)
Coleman, John B. (M)
Collins, Frank J. (A)
Cunningham, David H. (A)
Diehl, William F. (M)
Fithian, William S. (A)
Gertsch, Elmer P. (A)
Holmes, Ralph S. (A)
Norton, John E. (A)
Perkins, George C. (A)
Scott, F. (A)
Sponseller, Joseph F. (A)
Sullivan, Edward S. (A)
Walker, C. Robert (A)
Wallace, H. Edward (A)
Weber, Walter (A)
Yeck, F. A. (A)
- Jersey City
Benin, Zolmon (A)
Bremer, Harry A. (A)
Drews, Ernest (A)
Gross, Ralph (A)
Hanks, Alfred J. (A)
Holmes, George R. (A)
Lindauer, John H. (A)
Maylott, Carleton F. (A)
Norton, John E. (A)
Perkins, George C. (A)
Scott, F. (A)
Sponseller, Joseph F. (A)
Sullivan, Edward S. (A)
Walker, C. Robert (A)
Wallace, H. Edward (A)
Weber, Walter (A)
Yeck, F. A. (A)
- Kenilworth
Meyer, Henry E. (A)
- Lakehurst
Coulter, Howard N. (M)
Johnsen, C. M. (M)
- Lawrenceville
Ernst, Murray C. (A)
Gilman, George W. (A)
Wright, Oliver (A)
- Leonia
Mustermann, H. G. A. (A)
- Linden
Holetz, Alexander C. (A)
- Little Falls
Farnsworth, D. W. (A)
- Little Silver
Ohi, Russell S. (M)
- Livingston
Starrctt, John S. (A)
- Long Branch
Goodwin, Edwin A. (A)
Harris, Henry (A)
Herson, Jacob S. (A)
McCollum, Harry J. (A)
Reinhart, Sidney M. (A)
Watson, Paul E. (A)
- Lyndhurst
Kannenberg, Walter F. (A)
- Madison
De Coutouly, G. C. (A)
Kellogg, Wm. M. (A)
Manning, Chas. T. (M)
Phelps, Walter A. (A)
- Magnolia
Lathrope, Kenneth W. (A)
- Maplewood
Barkley, William J. (M)
Biele, Charles E. (A)
Bohn, William C. (A)
Cunningham, Frederick W. (M)
Darrow, Leo H. (A)
Du Vall, Frank B. (A)
Pidgeon, Howard A. (M)
Poppele, Jacob R. (A)
Rowe, Charles R. (M)
Troegner, Arthur M. (M)
- Merchantville
Ballard, Randall C. (A)
Billings, Horace P. (A)
Braden, Rene A. (A)
Brooks, N. M. (A)
Cone, F. E. (A)
Ellinwood, Carl W. (A)
Frenz, Harry J. (A)
- Mommo, Ernest J. (A)
Weinfeldt, Sidney (A)

NEW JERSEY (Continued)

- Hopkins, A. R. (A)
Hurley, Henry C. (A)
Jones, H. Rossiter (A)
Knapp, Harold D. (A)
McKechnie, John S. (A)
More, Clifton C. (A)
Paschon, Hans E. (A)
Patterson, E. B. (M)
Petty, G. Frederick (A)
Smith, Jerome C. (A)
Whitehead, Jesse C. (A)
- Metuchen
Bohlke, W. Hollander (A)
- Millburn
Morris, Robert M. (A)
Schauler, Vincent A. (A)
- Montclair
Charton, Paul W. (A)
De Long, Oscar A., Jr. (A)
Gano, Alfred S. (A)
Gorton, Roland Elmer (A)
Jacobus, Richard A. (A)
Krahl, Walter L. (M)
Tillson, Benj. F. (M)
- Moorestown
Ballentine, Edwin C. (M)
Mapelsen, Harold H. (A)
Stevenson, W. B. (A)
- Morristown
Leoser, Thomas S. (M)
Poole, Robert J. (A)
- Mountain Lakes
Asserson, Raymond (M)
Flannagan, Coke (M)
Osterland, Edmund H. (J)
Wilson, James R. (M)
- Mount Ephraim
Fitzsimons, Frank (A)
- Neptune
Schlafer, J. Peter (M)
- Newark
Barnes, T. Dana (A)
Bostad, John (A)
Browning, S. D. (A)
Cerstvik, Stephen (A)
Chun, Herbert H. (A)
Clement, Lewis M. (F)
Dauber, Arthur O. F. (A)
De Cola, Rinaldo (A)
Dolosh, Frank J. (A)
Donovan, Daniel R. (A)
Feindel, Abbot (A)
Glauber, John J. (A)
Goodwin, W. Nelson, Jr. (M)
Gordon, Malcolm K., Jr. (A)
Hardwick, Ambrose H. (M)
Herold, Edward W. (A)
Hesclton, Chas. C. (M)
Hooven, Morris D. (A)
Horle, Lawrence C. F. (F)
Lampey, Joseph J. (A)
Lewis, George H. (M)
Lucas, Earle F. (A)
March, Philip S. (A)
Marzulli, Angelo N. (A)
Montcalm, S. R. (M)
Morrison, G. K. (A)
- Peters, John L. (A)
Piety, Raymond G. (A)
Ports, Earl G. (A)
Ranger, Richard H. (F)
Reifel, Harry (A)
Romander, Hugo (A)
Rotolo, Nicholas V. (A)
Saunders, Wm. W. (A)
Schermerhorn, J. L. (A)
Scott, Walter F. (A)
Seis, Hollis K. (A)
Simpson, Frederick H., Jr. (A)
Sternberg, F. B. (A)
Suydam, C. H. (M)
Wagener, Winfield G. (A)
- New Brunswick
Hull, Charles E. (A)
Kahn, Louis (A)
Leeds, Lawrence M. (A)
- Newton
Landone, Brown (A)
- North Arlington
Collins, John (A)
- North Bergen
Seid, Fred C. (A)
- Nutley
Jones, Dramin D. (A)
Watts, Ivor B. (A)
- Oaklyn
Allen, John P. (A)
Bunday, Dale L. (A)
Byler, Henry W. (A)
Fowler, Lester T. (A)
Harding, Henry B. (A)
Holst, Paul F. G. (A)
Neal, George F. (A)
Rosenberg, Albert L., Jr. (A)
Welsh, Robert R. (A)
- Oceanport
Cohn, Ralph I. (A)
Hayden, Gilbert (A)
Horn, Tyree R. (A)
Larew, Walter H. (A)
Lockard, Marshall R. (A)
Lyman, Reginald P. (M)
Marks, Wm. S., Jr. (A)
O'Connell, James D. (A)
Slonaker, L. V. (A)
Spittle, Samuel E. (A)
Wenstrom, Wm. H. (A)
- Oradell
Brackett, Harold H. (A)
- Orange
Hauck, Vernon D. (A)
Maul, Gilbert E. (A)
Morrison, Howard (A)
Rockwood, G. H., Jr. (A)
Rypinski, Maurice C. (M)
Schlenker, Vesper A. (A)
Somers, Richard M. (A)
- Palmyra
Austin, John W. (A)
- Passaic
Albright, Arthur W. (A)
Bishop, William T. (A)
Ekstrom, Emmett J. (A)
Henderson, Roy A. (A)
Himoe, Clifford E. (A)
Kent, Roscoe (A)
Knight, J. B., Jr. (A)
Kroger, H. B. (A)
Link, Fred M. (A)
- Paterson
Franck, Ernest W. (A)
- Gold, Herman (A)
Grant, Mark S. (A)
Kearns, Henry E. (A)
Weimer, Max J. (A)
- Penns Grove
Douglass, Wm. A. (A)
- Perth Amboy
Onuska, Andrew (A)
- Plainfield
Boise, Everett B. (A)
Coxhead, Harry B. (M)
Cumming, Kenneth N. (M)
Nielsen, H. V. (A)
- Pompton Lakes
Misenheimer, Robert G. (A)
- Pompton Plains
Newby, Raymond W. (A)
- Princeton
Roberts, Walter Van B. (F)
Ware, Paul (A)
- Radburn
McConnell, W. G. (A)
- Rahway
Gibson, Robert D. (A)
Houck, Harry W. (M)
Hubbard, Chas. W. (A)
- Ramsey
Secor, Harry W. (A)
- Red Bank
Beck, Alfred C. (A)
Bruce, Edmond (M)
Crawford, Arthur B. (A)
Feldman, Carl B. (A)
Hollywood, John M. (J)
Jansky, Karl G. (A)
King, Archie P. (A)
Lowry, Lewis R. (A)
Mumford, Wm. W. (A)
Mutch, W. W. (M)
Ring, Douglas H. (A)
Sharpless, Wm. M. (A)
Strohl, Wellington M. (A)
- Ridgefield Park
Fleming, Joseph W. (A)
Smith, Arthur E. (A)
- Ridgewood
Affel, Herman A. (A)
Bondy, Hugo Alois, Jr. (A)
Engel, G. C. (A)
Felix, Edgar (M)
Fish, Edward H. (A)
Pfeiff, Frederick J. (A)
Replogle, Delbert E. (M)
Ronclere, Harold (A)
Smith, Theodore A. (A)
- Riverton
Beach, Chester L. (A)
Conron, William H. (A)
Goodenow, Grude J. (A)
Poch, Waldemar J. (A)
- Rochelle Park
Gibson, Robert (A)
- Roseland
Tiffany, John M. (A)
- Roselle
Guber, Fred H. (A)
Peterson, J. N. (A)
Pulley, Lester A. (A)
- Roselle Park
McNicol, Donald (F)

- NEW JERSEY (Continued)**
- Rumson
Friis, H. T. (F)
- Rutherford
Gage, David H. (M)
Kennedy, Harold E. (A)
Lynn, Roland A. (A)
Schwerin, Paul (M)
Stinchfield, J. M. (A)
Watson, Harry B. (A)
- Short Hills
Harkins, Philip B. (A)
- South Maplewood
Oman, Nils Johann (A)
- South Orange
Field, W. Thayer (A)
Leeb, Henry L. (M)
Walsh, Arthur L. (A)
Wensley, Roy J. (A)
- Springfield
Hantzsch, Ralph E. (M)
- Stanhope
Billiams, Frank J. (A)
Peterson, Arthur C., Jr. (A)
- Summit
Fairchild, F. Earle (A)
Humphrey, Hartley C. (A)
Melroy, Harry C. (A)
Snook, H. Clyde (M)
- Teaneck
Knights, A. H. (A)
Perryman, G. H. (A)
- Trenton
Donohue, E. F. (A)
Kale, Samuel S. (A)
Knowles, Edward P., Jr. (A)
Raser, Edward G. (A)
Wentzel, Amandus G., Jr. (A)
- Tuckerton
Munzer, Louis F. (A)
- Union
Edwards, Joseph B. (A)
- Union City
Erhard, John A. (A)
Hudson, Julius (A)
- Upper Montclair
Du Mont, Allen B. (F)
Godley, Paul F. (A)
Hallborg, H. E. (F)
- Verona
Heyman, Nicholas (A)
Paret, F. Murray (A)
- Wayne
Mayberry, Robert J. (A)
Read, Oswald W. (A)
- Weehawken
Masalkovics, J. A. (A)
Samuelson, Cyrus D. (J)
- Weehawken Heights
Spinner, Robt. F., Jr. (A)
- West Caldwell
Willis, Frederick C. (A)
- West Collingswood
Knight, Robert W. (A)
Pearl, Eugene S. (M)
Pettit, Albert R. (A)
Rohner, Arnold J. (A)
Taylor, John Pratt (A)
- West Englewood
Pettus, W. K. (A)
- Westfield
Kinsley, Carl (M)
Swanson, John W. (M)
Taylor, Theodore (A)
- West Long Branch
Burrows, Charles R. (A)
- Westmont
Batchelor, Harold (A)
Bradbury, Burke (M)
Clark, Edwin L. (A)
Pulley, Albert A. (A)
Scheldorf, Marvel W. (A)
Schnoor, F. D. (A)
Weber, Arnold K. (A)
Zimmerman, Arthur G. (A)
- West New York
Campbell, Augustus G. (A)
Machiorletti, Louis (A)
Schoenfeld, K. (A)
- West Orange
Kohler, Paul A. (A)
Martin, De Loss K. (M)
Schmidt, Joseph H. (A)
Tucker, Murray E. (A)
Vose, George E. (A)
Wickersheim, Lyle W. (A)
- Westwood
Otto, Emil D. (A)
- Whippany
Doherty, Wm. H. (A)
Hensel, W. G. (A)
Smith, John Wesley (A)
Stansel, Frank R. (A)
- Woodcliff
Palmer, C. Walter (A)
- Woodlynne
Stanton, Clair F. (A)
- Woodridge
Short, Donald Wm. (A)
- Wyckoff
Frey, Robert H. (A)
- NEW MEXICO**
- Mesilla Park
Talbot, Edward P. (A)
- Roswell
Falconi, Louis (A)
- NEW YORK**
- Albany
Corey, James H. (A)
Kaiser, Fred J. (A)
Mezger, George (A)
Schultz, Arthur F. (A)
Smith, Harold E. (A)
Thomas, Joseph D. (A)
- Amityville, L.I.
Browne, Walram S. (A)
Holland, Jesse W. (A)
- Andes
Gray, De Wayne R. (J)
- Ardsey
Ayer, Oliver G. (A)
- Astoria, L.I.
Berhley, Fred (A)
Campbell, Mark E. (A)
Champness, Thos. J. (A)
Gerlach, Gerald G. (A)
Greene, George J. (A)
Greene, Harry A. (A)
Kunicky, Barney F. (A)
Leslie, Frank (A)
Lurie, Eli M. (A)
- Miller, Edwin C. (A)
Miller, H. B. (A)
Nagy, A. Wheeler (A)
Racliffe, Chas. L. (A)
Schraun, Wm. C. (A)
Zatorsky, E. F. (A)
- Auburn
Lumb, Frank J. (A)
Willers, Theodore H., Sr. (A)
- Babylon, L.I.
Thompson, E. P. (A)
- Batavia
Nodine, Wesley I. (A)
- Bath
Loveless, Lawrence M. (A)
- Bayside, L.I.
Case, Nelson P. (M)
Dean, C. E. (A)
Lorch, Albert (A)
Sage, Frederick H. (A)
Trautwein, Paul K. (M)
Whitman, Vernon E. (A)
- Bellaire, L.I.
Brennan, John B., Jr. (A)
- Bellerose, L.I.
Speicher, John D. (A)
- Binghamton
Adams, William E. (A)
Craft, James A. (A)
Gilbert, Lester H. (A)
- Bohemia, L.I.
Kroupa, Henry F. (A)
- Brighton
Long, John J., Jr. (M)
- Brightwaters, L.I.
Camp, V. F. (A)
- Bronxville
Langley, Ralph H. (F)
Weeden, William N. (A)
- Bronxville Manor
Whitaker, James N. (A)
- Brooklyn
Adachi, William Y. (A)
Alexander, Louis (A)
Asch, Moe (A)
Bartal, Otto (A)
Baum, Sydney H. (A)
Baunach, Edward L. (A)
Berner, Aaron (A)
Berry, James L. (A)
Berry, Robert C. (A)
Blanc, Victor (A)
Bower, James (A)
Brandt, Kristian (A)
Brimberg, Isaac (A)
Bristow, F. R. (A)
Bullock, Walter H. (A)
Burns, George D. (A)
Buzalski, Thos. J. (A)
Callahan, John L. (M)
Callighieris, John S. (A)
Castle, Donald H. (A)
Charlat, Arnold (J)
Chinitz, Edward (A)
Christman, Charles (A)
Coe, Alfred (A)
Cohen, Samuel (M)
Coke, Charles B. (A)
Cole, Fred S. (A)
Colpitts, A. B. (A)
Cook, Arthur L. (A)
Culley, Pawson (A)
De Mann, William (A)
De Myer, Harold (A)

- NEW YORK (Continued)**
- Dresdner, Harold D. (A)
Dummett, H. W. (A)
Dunn, Lawrence J. (M)
Ellingham, Irving (A)
Evans, Porter H. (F)
Felthousen, A. (A)
Ferrotta, Joseph L. (A)
Fishberg, Sidney (A)
Florez, Hermann A. (A)
Fogel, Mortimer H. (A)
French, James B. (A)
Gardner, Leroy H. (A)
Gaydos, George J. (A)
Gerel, Alexander (A)
Gillule, William J. (A)
Glaser, Edward M. (A)
Glaser, Marcus (A)
Goddard, F. M. (A)
Greibach, Emil H. (A)
Gruetzke, Charles P. E., Jr. (A)
Haas, Milton J. (J)
Hadden, Weston (A)
Hajim, Jack (A)
Hammer, Robert H. (A)
Hartley, John H. (A)
Hausmann, Erich (M)
Haynes, Nat (A)
Heymann, Joseph (A)
Hines, Joseph (A)
Hintz, Robert T. (A)
Hughes, Wm. P., Jr. (A)
Inskip, Leonard S. (A)
Jaeger, Harold (A)
Jahl, Edwin (A)
Johnson, R. Stanley (A)
Katz, David (A)
Katzin, Martin (A)
Kayser, Herbert (A)
Kenny, Matthew (A)
Kirdahy, Emil (A)
Kissel, Alfred L. (A)
Korb, Alfred (A)
Kotzum, Joseph H. (A)
Lequesne, Chas. A. (A)
Levine, Harry (A)
Le Viness, John E. (A)
Levy, Lester (A)
Liberman, Henry C. (A)
Lucey, Kenneth (A)
Lussier, Ephege A. (A)
Mahoney, Jos. N. (M)
Marriott, Robert H. (F)
Martin, H. B. (A)
Martin, Louis (M)
Mazzola, Joseph R. (A)
McCormick, Hamilton L. (A)
McGonigle, Wm. J. (A)
McLaughlin, Thomas J. (A)
Miller, Marvin L. (A)
Mittwol, David (J)
Moore, Henry H. (A)
Morris, Leon A. (A)
Mullen, James F. (A)
Nardone, August J. (A)
Newcombe, Jack (A)
O'Shea, C. G. (A)
Ostrove, William (A)
Painting, John A. (A)
Palmer, Eric H. (A)
Patanski, D. (A)
Pearson, Herbert B. (A)
Perry, Harold D. (A)
Petersen, John C. (A)
Phelan, Thomas H. (A)
Potter, Max (A)
Prigge, John, Jr. (A)
Redfern, Forest F. (A)

- Renke, Adolph (A)
Riccobono, Sebastian (A)
Richardson, A. G. (M)
Ripperer, R. Oliver (A)
Romeo, Anthony (A)
Rosenbaum, Jacob (J)
Sachs, Bernhard A. (A)
Salzman, David (A)
Sass, Isidore (A)
Schenke, Kurtiss P. (A)
Scruggs, Clarence H. (A)
Secan, Harry (A)
Seekamp, Walter J. (A)
Seidman, Charles (A)
Shestacovsky, John (A)
Shortland, Jas. W. (A)
Siegel, Samuel (M)
Silver, Benjamin L. (A)
Simmons, Robert A., Jr. (J)
Sinsheimer, Arthur (A)
Skinner, Murray F. (A)
Smalts, Franklin W. (A)
Steinberger, Louis (M)
Stobbe, John A. (A)
Stromeyer, Charles F. (A)
Talley, David (A)
Tallman, Clare Le Roy (A)
Thomas, Edward H. (A)
Hintz, Barnett (A)
Tucker, Morris H. (A)
Tuckerman, Lucien P. (A)
Urmann, George J. (M)
Vogel, Erwin Wm. (A)
Weber, Paul (A)
Weinberg, Sidney (J)
White, Milton (A)
Widmann, Erwin (A)
Wing, Arthur K., J. (A)
Yolles, Jacob (A)
Zeiger, Louis B. (A)
- Buffalo**
- Andriatch, Nicholas D. (A)
Bergman, Howard J. (J)
Bickelman, John E. (A)
Blinzler, Richard F. (A)
Brown, Stanley W. (M)
Burbank, Jerome (A)
Crom, Geo. C., Jr. (M)
Cutting, Fulton (F)
Fiedler, Oscar W. (A)
Freidman, Sam (A)
Hayslett, L. E. (A)
Hector, L. Grant (A)
Hemedinger, Willard (A)
Huntsinger, F. J. (A)
Johnson, James A. (A)
Knowlton, Eugene W. (A)
Kunins, Morris K. (A)
Lounsberry, Isaac R., Jr. (M)
Miller, John C. G. (A)
Misiak, William (A)
Nauth, Edgar K. (A)
Nowak, Victor V. (A)
Patey, Harold W. (A)
Peck, Emerson P. (A)
Simpson, Burton T. (A)
Stachura, Edward J. (A)
Telaak, Theodore J. (A)
Vorojeikin, I. N. (A)
Wagener, W. Hall (A)
Waul, Eugene C. (A)
Weiss, Earl (J)
Yates, Raymond F. (M)
- Canandaigua**
Goering, Raymond A. (A)
- Canton**
Priest, Ward C. (A)
- Carmel**
Light, Frank B. (A)
- Cassville**
McDermott, John J. (A)
- College Point, L.I.**
Corbett, Clifford W. (J)
Hoehlein, Fred W. (A)
- Coney Island**
Singer, Louis (A)
- Corning**
Gage, Henry Phelps (A)
Taubert, W. Howland (A)
- Corona, L.I.**
Schubert, Fred (A)
- Croton-on-Hudson**
Lescarbours, Austin C. (M)
- Dongan Hills, S.I.**
Grimes, David (M)
- Douglas Manor, L.I.**
Weagant, Roy A. (F)
- Douglasston, L.I.**
Lewis, Harold M. (M)
- Dover Plains**
Pleasanton, Archie W. (A)
- Dryden**
McWatters, John T. (A)
- East Rochester**
Lucia, Raymond H. (A)
McCamee, Lee (A)
- East Rockaway, L.I.**
Carter, Frank L. (A)
Van Duynce, Eugene D. (A)
- Edgemere, L.I.**
Caudner, William (A)
- Elmhurst, L.I.**
Content, Edward J. (A)
Haines, Howard J. (A)
- Elmira**
Jenkins, Harold F. (A)
Taylor, Dale L. (A)
- Floral Park, L.I.**
Densham, Robert S. (A)
- Flushing, L.I.**
Barber, Alfred W. (A)
Bouck, Zeh (M)
Cook, Ellsworth D. (A)
Darrow, John A., Jr. (A)
Dreisbach, Robt. H. (A)
Farrington, John F. (F)
Kuntze, Emmet L. (A)
Matthews, A. C., Jr. (A)
Schofield, Robert W. (A)
Troxler, Lucien J., Jr. (A)
- Forest Hills, L.I.**
Bonanno, Joseph J. (A)
Canavaciol, Frank E. (A)
Leutz, Charles R. (M)
- Garden City, L.I.**
Dewhirst, Thornton P. (A)
Henney, J. K. (M)
Howe, Willard C. (A)
Lynch, Arthur H. (M)
Marcroft, James (A)

- NEW YORK (Continued)**
- Geneva**
Biles, Frank V. (A)
Thompson, John M. (A)
- Gerry**
Starr, Troy S. (A)
- Grahamsville**
Gillette, K. G. (A)
- Grant City, S.I.**
Emerson, Chas. W., Jr. (A)
- Great Neck, L.I.**
Freed, Joseph D. R. (F)
Paulding, Herbert L. (A)
Wheeler, Harold A. (M)
- Greece**
Clarke, Maurice M. (A)
- Greenport, L.I.**
Boerum, Henry S. (A)
- Jackson Heights, L.I.**
Larsen, Carl L. (A)
- Hall**
Phillips, Lloyd B. (A)
- Hamburg**
Hartloff, Gordon S. (A)
- Hamilton**
Goode, Kenneth H. (A)
- Hartsdale**
Keene, K. W. (A)
- Hastings-on-Hudson**
Baker, Judd O. (A)
- Hempstead, L.I.**
Crane, Edwin S. (A)
Pfautz, Christian E. (A)
Zurian, P. D. (A)
- Hempstead Gardens, L.I.**
Westman, Harold P. (M)
- Hicksville, L.I.**
Baker, Thomas S. (A)
Phelps, Boyd (A)
- Hollis, L.I.**
Batcher, Ralph R. (M)
Caputo, Nicholas J. (A)
Ma Dan, Edwin M. (M)
Srebroff, Chas. M. (M)
- Hudson**
Morrison, R. J. (A)
- Huntington, L.I.**
Flessel, Frank B., Jr. (J)
- Hurley**
Warren, William A. (A)
- Ithaca**
Ballard, William C. (M)
Bostwick, Wm. E. (A)
Grover, Horace J. (A)
Merritt, Ernest (M)
Meserve, Wilbur E. (A)
Mingins, Charles R. (A)
Moeder, William D. (A)
Palmer, Harris C. (A)
Sohon, Harry (A)
Tombouliau, Diran H. (A)
Wang, Y. M. (A)
- Jackson Heights, L.I.**
Abbott, Donald (A)
Bylander, J. Clifford (A)
Hasting, Gerald M. (A)
Hickman, C. Nichols (A)
Kampf, E. P. (A)
Schuetz, Robert F. (A)
Shelby, R. E. (A)
Stotler, Albert (A)
Swift, Wm. C. G. (A)
- Jamaica, L.I.**
Bernhardt, E. E. (A)
Bevitt, William D. (A)
Blauxox, Joseph D. (A)
Glasscock, Glen R. (A)
McCUTCHEON, John F. (A)
Steinberger, Arthur W. (A)
Sterns, Morton W. (M)
Styles, Thomas J. (A)
Voigt, George (A)
Yenoli, Dominick J. (A)
- Jamesport**
Colvin, R. S. (A)
Seaman, Gerald C. (A)
- Jamestown**
Beaumont, Wm. F. (A)
- Johnstown**
Ennis, Joel B., Jr. (A)
- Kenmore**
Cote, Omer E. (A)
Fichtel, F. Carl (A)
Noel, Lionel S. (A)
Welscher, Carl E. (A)
Wullenweber, Milton O. (A)
- Kew Gardens, L.I.**
Montgomery, A. Peers (A)
- Kingston**
Kent, George C. (A)
- Larchmont**
Nilson, Arthur R. (M)
- Laurelton, L.I.**
Slater, Saul I. (A)
- Liberty**
Mauer, William V. (A)
- Little Neck, L.I.**
Bohman, Victor A. (A)
Parker, Oliver B. (M)
Schultes, Martin F. (A)
- Lockport**
Connette, T. W. (A)
Fiedler, Leroy (A)
- Long Island City, L.I.**
Carter, E. Finley (A)
Dinga, Emil (A)
Dolid, Abraham (A)
Duttera, W. S. (A)
Holzinger, Theo. E. (A)
Manke, Arthur G. (A)
Morrison, Montford (M)
Pattée, John R. (A)
Verdigi, John (A)
- Lynbrook, L.I.**
Fedotoff, Nicholas V. (A)
Misterly, Frank S. (A)
Shaw, James (A)
- Maine**
Lainhart, Vaughn (A)
- Malverne, L.I.**
Seidler, Abraham (A)
- Mamaroneck**
Herdman, Wm. P. (A)
Smith, J. O. (M)
- Maspeth, L.I.**
Purzner, William H. (J)
- Middletown**
Callender, Edwin R. (A)
Dempsey, Wm. E. (A)
- Midland Beach, S.I.**
Bon, John M. (A)
- Mineola, L.I.**
McCauley, Geo. W. (A)
- Stellwagen, Frank W. (A)**
- Mitchell Field, L.I.**
Clute, Frank H. (A)
- Monroe**
Morse, Arthur H. (M)
- Monticello**
Fleischer, A. P. (A)
- Mount Vernon**
Anderson, J. E. (A)
Bernard, Herman (A)
Fletcher, Louis D., Jr. (A)
Ka Dell, Harold W. (A)
Podell, Samuel (A)
Stone, Clarence G., Jr. (A)
- Napanoch**
Nally, Edward J. (A)
- New Brighton, S.I.**
Macken, H. L. (A)
- New City**
Doellner, LeRoy J. (A)
- New Rochelle**
Annucci, Louis M. (A)
Cantor, Arthur B. (A)
Ciolfari, Bernard (A)
Kelly, Chas. M., Jr. (A)
Matthews, Basil W. (A)
Wilson, Robert F. (J)
- New York**
Adams, Ira J. (M)
Adams, Quinton (M)
Aiken, Charles B. P. (A)
Allcutt, E. Burton (A)
Allen, Gilbert D. (A)
Allyn, R. S. (A)
Almquist, Milton L. (A)
Alpern, Dwight K. (A)
Alvarado, Michael A. (A)
Alverson, George S. (A)
Amy, Ernest V. (M)
Anderson, Clifford N. (A)
Anderson, Edwin C. (A)
Anderson, Herbert L. (J)
Andrews, Joseph F. (M)
Ansley, Arthur C. (A)
Appel, Henry W. (A)
Armstrong, E. H. (F)
Arnold, John W. (A)
Ashby, A. L. (A)
Atkin, Robert (A)
Aull, Wilson, Jr. (M)
Babcock, Stuart M. (A)
Bailey, Arnold B. (A)
Bailey, Austin (M)
Bain, J. C. (A)
Bair, Ralph S. (A)
Barnes, James C. (A)
Bartlett, Kenneth R. (A)
Batcheller, Arthur (M)
Batsel, Max C. (F)
Bauer, Brunton (A)
Behner, Herbert C. (M)
Beltz, Willis H. (A)
Bemis, Edwin W. (A)
Bemis, Isabel S. (A)
Berhalter, Joseph J. (A)
Betts, Philander H. (A)
Beverage, Harold H. (F)
Beyer, Haim (A)
Beyer, Raymond G. (A)
Binns, John R. (A)
Bird, J. Raymond (A)
Black, Donald M. (A)
Black, K. Charlton (M)
Blackmar, Abel E., Jr. (A)

NEW YORK (Continued)

- Blackwell, Otto B. (F)
Blan, Michael (A)
Blenheim, Wm. J. (M)
Block, Wesley S., Jr. (A)
Boehme, H. O. (M)
Boesche, F. W. (A)
Bonett, David J. (A)
Borislavsky, Michael A. (A)
Bostwick, L. G. (A)
Bown, Ralph (F)
Bradshaw, David Y. (A)
Brady, Leslie R. (A)
Brainson, William (A)
Brake, Paul (J)
Brothers, James T. (A)
Brown, Charles J. (A)
Brown, D. S. (A)
Brown, Wm. A. R. (A)
Bruck, Herman (A)
Bruggeman, John T. (A)
Bucher, E. E. (F)
Buckler, John J. (A)
Budenbom, Horace T. (A)
Bullard, William R. (A)
Burghard, G. E. (M)
Burton, Everett T. (A)
Butterfield, Charles E. (M)
Buttner, Harold H. (M)
Byrnes, Irving F. (A)
Cahill, William J. (A)
Caldwell, O. H. (M)
Campbell, Chas. H. (A)
Campbell, John A. (A)
Capen, William H. (M)
Carlton, Roger C. (A)
Carson, John R. (M)
Cass, Lewis S. (A)
Caum, Harold J. (A)
Chaffee, Joseph G. (A)
Challenger, Ansel (A)
Challenor, Geo. A. (A)
Chamberlain, Adolph B. (M)
Chernow, Morris (A)
Chu, Quong Y. (J)
Clark, C. R. (M)
Cockaday, Laurence M. (A)
Coggeshall, Ivan S. (M)
Cohan, Edwin K. (M)
Cohn, Hugo (M)
Cole, Burton R. (A)
Coles, Francis A. (A)
Colpitts, Edwin H. (F)
Conley, S. D. (A)
Conviser, Harry (A)
Cooper, C. B. (A)
Corbett, Edward L. (A)
Core, Christopher W. (A)
Corwin, Charles I. (A)
Cousins, Van Meter (A)
Cowan, Frank A. (M)
Cowles, Laurence G. (A)
Crite, Mitchel (A)
Crosby, George L. (M)
Crosby, Gordon J. (A)
Curry, Walter A. (A)
Custer, Charles J. (A)
Dale, George V. (A)
Danz, Herman (A)
Danziger, Harold I. (M)
Daspit, L. Randall (A)
Deakin, Gerald (A)
Della Corte, Joseph P. (A)
Demarest, Chas. S. (M)
- De Pasquale, Ray H. (A)
Desnoes, Arnold B. (A)
De Sousa, Geo. S. (M)
DeWitt, John H. (A)
Diaz, Ernesto (A)
Dietrich, Frederick (A)
Dietsch, Carl G. (A)
Dietze, Eginhard (A)
Dodge, Frank R. (A)
Dow, M. Thornton (A)
Downing, Richard E. (A)
Dubilier, William (F)
Duggan, John (A)
Duncan, Rudolph L. (M)
Dunham, John S. (A)
Dunlap, Orrin E., Jr. (M)
Dunn, Gano (F)
Dunning, John R. (A)
Durkee, Lincoln (A)
Easton, J. H. (A)
Edwards, Robert B. (A)
Egert, Samuel S. (A)
Eldridge, H. W. (A)
Eller, Keith B. (A)
Foyang, Thomas T. (A)
Erstad, Johannes (A)
Espenschied, Lloyd (F)
Everett, Lynn C. (M)
Facey, John W. (A)
Farrand, C. L. (F)
Fay, Clifford E. (A)
Feldstein, M. A. (A)
Fielding, Charles F. (M)
Filmer, Walter L., Jr. (A)
Finch, William G. H. (M)
Finlay, Robert C. S. (A)
Fischer, Herbert B. (A)
Fischer, Leonard O. (A)
Fish, Arthur S. (M)
Fisher, Theodore (A)
Flaum, Joe (J)
Flythe, Thomas Y. (J)
Forster, Kenneth L. (A)
Frank, James, Jr. (A)
Fredendall, Beverly (A)
Frederick, Halsey A. (M)
Friend, Halton H. (A)
Frimerman, Frank (A)
Furia, John J. (A)
Gannett, Danforth K. (M)
Garner, Melvin E. (J)
Garofalo, Frank (A)
Gati, Bela (A)
Geoghegan, Eamonn D. (A)
Gerstein, M. George (J)
Gibson, Nesbit (A)
Gilbert, John J. (A)
Giovanni, Frank (A)
Girard, E. J. (A)
Goldsmith, Alfred N. (F)
Graham, Frank H. (A)
Graham, William A. (M)
Graveson, Geo. L. (A)
Green, Ashbel (A)
Green, Estill I. (A)
Green, William (A)
Greene, Paul A. (M)
Greenstein, Philip (A)
Greiff, Victor (M)
Greig, John W. (A)
Griffiths, Clarence M. (A)
Gritzner, Fred A. (A)
Grover, Harry G. (M)
Grunwald, Werner J. (A)
Guid, Baldwin (M)
- Gutoff, Boris M. (A)
Guy, Raymond F. (M)
Haldane-Duncan, B. (A)
Hallenstein, Nathan A. (A)
Halligan, Clair W. (A)
Hanley, John F. (A)
Harley, John B. (A)
Harness, Sam A. (A)
Harnett, Daniel E. (A)
Harper, A. E. (M)
Harrison, Chas. I. (A)
Harrison, Perry (A)
Hartley, Ralph V. L. (F)
Hartman, Chas. D. (A)
Harvey, Lester M. (M)
Hauffe, Otto (A)
Heberlein, Arthur A. (A)
Hedges, Ellsworth J. (A)
Heindel, Harold J. (A)
Heising, R. A. (F)
Hemberger, E. F., Jr. (A)
Henline, Henry H. (M)
Herber, John C. (A)
Herbert, Harold R. (M)
Herschey, Arthur W. (A)
Heuschkel, Paul J. (A)
Hight, Stuart C. (A)
Hiller, Nicolai H., Jr. (A)
Hineline, Harris D. (M)
Hirsch, Harry (A)
Hogan, John V. L. (F)
Holcombe, Henry W. (M)
Holden, C. F. (M)
Honaman, R. Karl (A)
Hopfenberg, Jos. A. (A)
Horn, Charles W. (F)
Hornung, Julius L. (A)
Horscroft, Richard G. (A)
Hough, Clinton W. (A)
Hovgaard, Ole M. (M)
Howard, Edward J. (A)
Howell, Clifford A. (A)
Howell, James P. (A)
Howell, Walter J. (M)
Hubbard, Frank A. (A)
Hudack, John M. (A)
Hunkins, Harold R. (A)
Huntley, Kenneth L. (A)
Hutchison, Miller (M)
Isele, Harold Adolph (A)
Jacobs, Louis (A)
Jameson, Malcolm F. (A)
Jamross, Rudolph (A)
Janke, Alfred H. (M)
Jarabin, Frank G. (A)
Jean, Robert P. (A)
Jensen, A. G. (M)
Jewett, F. B. (F)
Johnson, J. Kelly (A)
Johnson, Kenneth S. (M)
Johnson, Reverdy (A)
Johnston, John P. (M)
Johnston, Thos. F. (A)
Jones, August F. (A)
Jones, Lester L. (F)
Kahn, Morton B. (A)
Kalb, Robert M. (A)
Kaplan, Arthur A. (A)
Keim, Llewellyn B. (A)
Kelley, Leo A. (A)
Kelly, Mervin J. (M)
Kennedy, T. R., Jr. (A)
Kennedy, Wm. A. (A)
Kilmer, T. W., Jr. (A)
King, Frank (M)

NEW YORK (Continued)

King, W. Milton (A)
Kircher, Raymond (A)
Kirchhoff, Willard J. (A)
Kishpaugh, Arthur W. (M)
Klesse, William (A)
Klosner, Morris (A)
Knaack, Frank E. (A)
Knapp, Joseph F. (A)
Knapp, Kenneth G. (A)
Knight, Octavius (A)
Knopp, Ernest (A)
Knott, William M. (A)
Kobliha, Francis E. (J)
Koerner, Lawrence F. (A)
Kolster, F. A. (F)
Kouchnerkavich, Thomas A. (A)
Kreuzer, Barton (A)
Kroger, F. H. (F)
Kuhn, Alfred S. (A)
Kunc, Frank (A)
Lack, Frederick R. (A)
Ladner, Henry (A)
Lakatos, Emory (A)
Lake, Daniel A. (A)
Lane, Frederick A. (A)
Langdon, G. G. (A)
Langley, Horace E. (A)
Latimer, Chester W. (F)
Lawrence, Walter L. (A)
Leach, Harvey B. (A)
Lebow, Samuel (A)
Lee, Emery H. I. (M)
Lee, Fat Chang (A)
Lefferts, B. (A)
Lemmon, Walter S. (A)
Lenz, Charles S. (A)
Levin, Samuel A. (A)
Levine, I. B. (M)
Levy, A. Kingdon (A)
Levy, Mortimer N. (A)
Lewis, Elmer H. (A)
Lindmark, Elmer S. (A)
Lindner, Herbert G. (A)
Lindsay, Maxwell H. A. (A)
Llewellyn, F. B. (A)
Loflin, Edward H. (M)
Logan, Mason A. (A)
Long, Maurice B. (A)
Loynes, Owen H. (A)
Luisi, John (J)
Lundahl, Tore (A)
Lyons, Walter (A)
MacDonald, Wm. A. (M)
MacDougall, Arthur (A)
Mackay, Wm. A. (A)
Magri, Frank (A)
Manley, Edward (A)
Manley, Lee L. (M)
Marrison, W. A. (M)
Marshall, Albert E. (A)
Martin, W. H. (A)
Marx, Frank (J)
Mathes, R. E. (A)
Mauran, John (A)
McCann, Thomas A. (A)
McCutchen, Brunson S. (M)
McElrath, George (M)
McFarlane, M. L. D. (A)
McGarry, John (A)
McIntosh, Frank H. (A)
McLagan, Donald R. (A)
McLaughlin, Jas. L. (M)
McLean, Philip S. (A)
McNally, James O. (A)
McNary, James C. (M)

McSweeney, Roger (A)
Mellor, William N. (A)
Mendenhall, Hallam E. (A)
Meyer, Henry W. (A)
Michelman, E. A. (A)
Miles, Paul D. (A)
Miller, Horace G. (A)
Miller, Jos. Anthony (A)
Miller, Samuel C. (M)
Mills, John (F)
Milnor, J. Willard (M)
Misenheimer, Harvey N. (M)
Mitchell, Isaac A. (A)
Moises, George S. (A)
Molzen, Charles F. (A)
Moore, George E. (A)
Moran, H. G. (A)
Morehouse, T. B. (A)
Muller, Fred (M)
Myers, Theobald (A)
Naimark, Boris S. (A)
Nakamura, T. (M)
Neely, Guy Morton (A)
Nein, Harry R. (A)
Nelson, Crescent F. (M)
Nelson, Edward L. (M)
Nelson, Parker C. (A)
Neville, T. P. (A)
Newhouse, Russel C. (A)
Nicely, Ralph N. (A)
Nicholides, E. (A)
Nichols, Eldon (A)
Nichols, Leroy C. (A)
Nickerson, Fred W. (A)
Nielsen, John E. (A)
Nimmcke, Fred E. (A)
Nisley, Paul H. (A)
Nixon, George M. (A)
Nordahl, John G. (A)
Nordstrom, B. H. (A)
Norton, F. R. (A)
Nuesse, Louis W. (A)
Nugent, Thomas (A)
O'Donohue, Jas. P. (A)
Olander, L. W. (A)
Olmstead, Noel C. (A)
Ornstein, Eugene (A)
Osborne, Harold S. (M)
Osgood, Albert S. (A)
Oswald, Arthur A. (F)
Overmiller, Clair M. (A)
Pacent, Louis G. (F)
Palmer, Robert T. (A)
Pannill, Charles J. (F)
Parker, R. D. (A)
Pavlow, Nicholas (A)
Payne, Charles C. (A)
Pease, Reginald M. (M)
Pegram, George B. (A)
Penick, D. B. (A)
Petersen, Carl O. (A)
Peterson, Cornelius (A)
Peterson, Eugene (M)
Peterson, Glen (A)
Peterson, Kenneth C. (A)
Petry, C. A. (A)
Pickett, Glenn H. (A)
Pierce, E. H. (A)
Pierce, Norman J. (A)
Pierrepont, John Jay (A)
Pilling, Thomas A. (A)
Pineau, Norman T. (A)
Plummer, Wm. E. (A)
Polkinghorn, Frank A. (A)
Pollack, Dale (J)
Potter, Ralph K. (M)
Powell, Ralph C., Jr. (A)

Pratt, Haraden (F)
Price, H. Stewart (M)
Prilik, Max R. (A)
Proskauer, Julien J. (A)
Pumphrey, Walter H. (M)
Pupin, M. I. (F)
Putnam, Ralph E. A. (A)
Ranson, G. B. (A)
Rathner, Jack (A)
Reb, Frank F. (A)
Reber, Samuel (F)
Reeves, J. Russell (A)
Reeves, Thomas J. (A)
Reiling, Paul A. (A)
Reoch, Alexander E. (F)
Reynolds, John L. (A)
Rider, John F. (A)
Ridgway, James L. (A)
Rieger, William (A)
Riley, Conrad D. (A)
Roberts, Horace, Jr. (A)
Robinson, Jos. M. (A)
Rose, Arthur F. (M)
Rose, Charles F. P. (A)
Rose, John A. (A)
Rossi, Ralph J. T. (A)
Ryan, Francis M. (M)
Sacia, C. F. (A)
Sadick, Abraham I. (A)
Salzberg, Bernard (A)
Samuel, Arthur L. (A)
Samuels, George J. (A)
Sanborn, John W. (A)
Sandretto, Peter C. (A)
Santos, Anthony S. (A)
Sargeant, Charles E. (A)
Sarnoff, David (F)
Schanz, John A. (A)
Schechter, Jack (A)
Schelleng, John C. (F)
Schmied, James W. (A)
Schneider, Robt. E. (A)
Schneider, W. A. (M)
Schnoll, Nathan (A)
Scholle, Frederick (A)
Scholz, Carl E. (M)
Schramm, Fred W. (A)
Scott, Herbert J. (A)
Searing, Hudson R. (A)
Selton, Edwin F. (A)
Seger, L. (A)
Seichter, Max (A)
Senauke, Alexander (M)
Shandy, George P. (M)
Shangraw, Clayton S. (M)
Shannon, Joseph H. (M)
Sherman, Jesse B. (J)
Shore, Henry (M)
Shute, Emmet R. (M)
Sigety, Louis (A)
Silberstein, Richard (A)
Singer, Emanuel (A)
Sivian, Leon J. (A)
Skirrow, John F. (M)
Sklar, H. Lee (A)
Slade, Benjamin (A)
Slater, Fred L. (A)
Smack, John C. (A)
Smith, Delmar E. (A)
Smith, Jesse H. (A)
Smith, K. R. (M)
Smith, Kenneth D. (A)
Smith, Samuel B. (A)
Smith-Hutton, H. H. (A)
Snow, William B. (A)
Sohor, P. H. (M)
Sonkin, David (M)
Soule, Harold (A)
Southworth, G. C. (M)

NEW YORK (Continued)

Speed, Russell B. (A)
Spence, P. W. (A)
Spitalny, Max (A)
Sprague, Clarence A. (M)
Stanford, Kenneth J. (A)
Starr, Alfred R. (A)
Stines, Charles H. (A)
Stone, Elery W. (F)
Strieby, Maurice E. (M)
Swain, Robert R. (A)
Sweeny, Carey P. (A)
Sykes, Roger A. (A)
Synnott, Burton (A)
Taussig, Charles W. (A)
Taussig, William S. (A)
Taylor, Alfred R. (A)
Taylor, Charles H. (F)
Taylor, E. Gordon (M)
Taylor, Edmund R. (A)
Taylor, S. Gordon (A)
Taylor, W. H., Jr. (M)
Teeter, Albert A. (A)
Texido, Platon (A)
Theremin, Leon (A)
Thielen, E. J. (A)
Thompson, Albert C. (A)
Thompson, Gordon (A)
Thomson, Howard M. (A)
Thropp, Charles H. (A)
Thurston, George (A)
Tierney, Walter L. (M)
Tinus, William C. (A)
Toth, Albert F. (A)
Towner, Orrin W. (M)
Townsend, Jas. H. (A)
Trago, Robert A. (A)
Travis, Charles (A)
Truax, John (A)
Tuel, A. Y. (A)
Turner, Alva (A)
Tuttle, Clarence W. (A)
Vaill, Edward W. (A)
Vanacore, Thomas (A)
Van Pelt, John (A)
Vansant, F. T. (A)
Vaughan, Carroll B. (A)
Vezzie, Edmund A. (A)
Velasco, Jose M. (A)
Venable, Richard N. (A)
Volkman, John E. (A)
Von Doenhoff, Albert E. (J)
Vreeland, F. K. (F)
Wald, David (A)
Wallach, Moses U. (A)
Waring, John T. (A)
Waterman, F. N. (M)
Waterman, William (A)
Webster, Bethuel M., Jr. (A)
Weiland, Christian F. (A)
Weiler, Harold (A)
Weinberger, Julius (F)
Weinhoepfel, Karl L. (A)
Weintraub, D. H. (A)
Weisbroth, Sam (A)
Wendell, Edward N. (A)
Whitmer, Robt. M. (A)
Whittemore, L. E. (F)
Wilbur, Edwin C. (A)
Willard, Gerald W. (A)
Willhoff, F. O. (A)
Williams, Howard F. (A)
Willis, F. H. (A)
Wilmotte, R. M. (M)
Wilson, Donald B. (A)
Wilson, H. Warden (A)
Wilson, Leon T. (M)
Wilson, William (F)

Winner, Lewis (A)
Winterbottom, William A. (M)
Wintringham, William T. (A)
Woodcock, N. A. (A)
Woodrow, William (A)
Woodward, John D. (A)
Wrathall, L. R. (A)
Wright, Harry M. (A)
Wright, William S. (A)
Wunderlich, H. A. F., Jr. (A)
Wunderlich, Norman E. (M)
Wynne, Walter M. (A)
Yeutter, C. S. (A)
Young, Owen D. (F)
Youngstrom, Nels C. (A)
Niagara Falls
Günther, George (A)
La Mantia, Philip V. (J)
Lidbury, F. A. (A)
North Pelham
Looney, Lester A. (A)
Siebert, Geo. W., Jr. (A)
North Tarrytown
Lazarus, Benj. N. (A)
Sandalls, Geo. T., Jr. (A)
North Tonawanda
Closson, Luke E. (A)
Hayes, Wilber A. (A)
Hesse, Henry R. (A)
Wesselman, Eugene (A)
Nyack
Stansbury, Mervyn L. (A)
Orient
Vail, Leslie G. (A)
Ossining
Akin, Robt. M., Jr. (A)
Gowen, Robert F. (M)
Ozone Park, L.I.
Bulzoni, Albert L. (J)
Eklund, Gus (A)
Necker, E. J. (A)
Weilminster, Charles (A)
Pearl River
Baker, Carl I. (M)
Pelham
Kolb, Walter R. (A)
Pelham Manor
Kelly, Dale (A)
Lewis, F. W., Jr. (A)
Trowbridge, O. H. (A)
Poland
Prentiss, Howard H. (A)
Port Jefferson, L.I.
Carter, Philip S. (A)
Dow, Orville E. (A)
Hansell, Clarence W. (M)
Port Jervis
Gibbons, Joseph W. (A)
Rutan, Paul D. (J)
Port Washington, L.I.
Fultz, Miles E. (A)
Hafner, Gilbert (A)
Poughkeepsie
Boyle, Frank A. (A)
Fischer, Fred F. (A)
Wood, Raymond A. (A)
Queens Village, L.I.
Sypher, Edgar L., Jr. (A)

Rego Park, L.I.
Günther, Frank A. (M)
MacDonald, Wm. W. (A)
Rhinebeck
Lang, Walter T. (A)
Richmond Hill, L.I.
Beach, Ernest W. (A)
Berry, Finley L. (A)
Gordon, Malcolm J. (A)
Grebe, Alfred H. (F)
Heins, Henry F. (A)
Jacobs, Frank (A)
Leyh, William D. (A)
Meacham, J. F. B. (A)
Oram, Donald K. (A)
Palasky, Harold (A)
Saphir, Frank (A)
Siemens, R. H. (A)
Weinwurt, Robert (A)
Riverhead, L.I.
Ashmore, J. W. (A)
Bond, Elmer F. (A)
Braaten, Arthur M. (A)
Callahan, Edward P. (A)
Crosby, Murray G. (A)
George, Ralph W. (A)
Goddard, Dewitt R. (A)
Lindow, Irving L. (A)
Matthews, Walter I. (A)
Morris, Hedley B. (A)
Opperman, Kurt (A)
Peterson, Harold O. (M)
Rundquist, Elliot C. (A)
Schock, Robert E. (A)
Schoenborn, F. (A)
Simpson, Stephen H., Jr. (A)
Smith, Arthur Z. (A)
Stagg, Carl (A)
Trevor, Bertram (A)
White, Nathaniel (A)
Wickizer, Gilbert S. (A)
Winans, Paul V. (A)
Rochester
Albright, Gordon E. (A)
Anderson, Roy S. (J)
Bachofer, C. Leonard (A)
Balling, Alfred W. (A)
Brown, Gordon P. (A)
Brown, Howard A. (A)
Bullis, Ormond P. (A)
Dwyer, Vincent J. (A)
Esten, Perry W. (A)
Friedler, Dewey P. (A)
Gardner, Kenneth J. (A)
Gordon, Harry E. (A)
Graham, Virgil M. (M)
Greenman, Roger B. (A)
Hanover, Edward A. (A)
Harrison, Walter M. (J)
Hitchcock, Joseph F. (A)
Huntington, Maurice B. (A)
Kaiker, Earl C. (A)
Klumb, Harvey J. (A)
Lawrence, Henry E. (A)
Levy, Maurice L. (A)
Malone, Walter J. (A)
Manson, Ray H. (F)
Marsh, Albert H. (A)
Martin, V. G. (A)
McCanne, W. Roy (M)
Moxon, Alfred W. (A)
Newton, William E. (A)
Norris, Edward I. (J)
Prickett, Norman R. (A)
Schneider, Mendell (A)
Schoen, Arthur L. (A)
Seoville, George A. (A)

NEW YORK (Continued)

- Soderholm, Arthur E. (A)
Tarrant, Samuel E. (A)
Welsh, Fred E. (A)
Wiebach, William T. (A)
Wishart, William R. (A)
Wood, Merrill A. (A)
Worrell, Richard A. (A)
- Rockville Center, L.I.
Cardwell, Allen D. (A)
Fluharty, Wm. G. (A)
Hinnners, Frank A. (F)
Schabbehar, Edwin A. (A)
Stewart, G. Edwin (A)
Weeks, Norman E. (A)
- Rocky Point, L.I.
Boerner, Thomas J. (A)
Clifton, B. S. Y. (M)
Conklin, James W. (A)
Draigh, Canton V. (A)
Goldstine, Hallan E. (A)
Goodfellow, David H. (A)
Henry, R. S. (A)
Meola, Thomas D. (A)
Peterson, Lloyd E. (A)
Usselman, George L. (A)
- Rome
Fitch, J. Alton (A)
- St. Albans, L.I.
Baldwin, Chester P. (A)
Barth, Bruno B. (A)
Ehlert, Fred C. (A)
Grainger, Maurice J. (A)
- St. George, S.I.
Dinsdale, Alfred (M)
Rodwin, George (A)
- St. James, L.I.
Flathman, Edward (J)
- Saranac Lake
Riddle, William E. (A)
Watts, E. Gerald (A)
- Sayville, L.I.
Hart, Frank A. (A)
Moser, William E. (A)
- Scarsdale
Appel, Jos. H., Jr. (A)
Drew, Charles E. (M)
Herdman, Raymond C. (A)
- Schenectady
Acheson, Marcus A. (A)
Alexanderson, E. F. W. (F)
Andrews, Paul D. (M)
Anson, C. T. (A)
Ayer, Raymond B. (A)
Becker, Stewart (A)
Berejkoff, Anatol P. (A)
Berg, Ernest J. (A)
Brockman, Francis C. (A)
Broughton, W. G. (A)
Brown, William W. (M)
Cottrell, McKenzie (A)
Crippen, Eugene C. (A)
Crosby, Howard M. (A)
Darlington, Eugene S. (A)
David, William R. (A)
De Nardo, Federigo (A)
Dewalt, K. C. (A)
Dickinson, Theo. M. (A)
Dodge, Albert O. (A)
Dome, Robert B. (A)
Durkee, K. M. (A)
Eldridge, F. B. (A)
Eveleth, Laurence Nelson (A)
- Farrell, John J. (A)
Fitch, William A. (A)
Ford, Warren A. (A)
French, Henry G. (A)
Frink, Frederick W. (A)
Fritschel, Eugene H. (A)
Frost, E. (A)
Fulton, R. (A)
Fyler, George W. (A)
Graf, Alois W. (A)
Grover, F. W. (M)
Hall, Whitman N. (A)
Henyan, George W. (A)
Hoxie, Charles A. (A)
Jacklin, Norman L. (A)
Jackson, Henry W. (M)
Johnson, T., Jr. (M)
Kaar, Ira J. (M)
Larson, Robert W. (A)
Lynn, L. H. (A)
Marvin, Harry B. (M)
Maser, Harold T. (A)
Maynard, J. E. (A)
Mead, Milton S., Jr. (A)
Meahl, Harry R. (A)
Moles, Frank J. (A)
Mullaney, Dudley A. (A)
Nelson, Walter H. (A)
Newton, Raymond A. (A)
Nickle, Emil G. (A)
Nixdorff, Samuel P. (M)
Nolte, Henry J. (A)
Palermo, A. J. (A)
Patterson, Franklin G. (A)
Pike, Otis W. (M)
Powles, Frederick T. (A)
Priest, Conan A. (A)
Rice, Chester W. (F)
Rossman, Donald V. O. (A)
Rowe, Hobart E. (A)
Schwenker, Alfred H. (A)
Serrell, Robert (A)
Simpson, Leroy C. (A)
Smith, Harold A. (A)
Smith, Richard L. (A)
Snyder, Norman (M)
Spitzer, Edwin E. (A)
Taylor, Laurens A. (A)
Taylor, Samuel (A)
Towson, Harold G. (A)
Tucker, William E. (A)
Van Alstyne, A. J. (A)
Watts, D. E. (A)
Weir, Irwin R. (A)
Westendorp, W. F. (A)
White, William C. (M)
Williamson, R. H. (A)
Woodworth, John L. (A)
Young, Charles J. (A)
- Scottia
Clarke, Varro J. (A)
Cummings, Alan P. (A)
Fick, Clifford G. (A)
Jensen, Richard C. (A)
Leibing, Joseph K. (A)
Richardson, L. Walton (A)
Roder, Hans (M)
Schwarzaupt, Paul J. (M)
Smith, H. Millard (A)
Steiner, Harry C. (A)
Yerian, Carlos S. (A)
- Sea Cliff, L.I.
Mickelson, C. D. (A)
- Sidney
Wilber, Delbert J. (A)
- Skaneateles
Roberts, Edward (A)
- Slaterville Springs
Bull, Edward M. (A)
- Snyder
Ellinger, Albert E. (A)
- Southampton, L.I.
Buckingham, Wm. D. (A)
Hayes, James D. (A)
Hayward, Walter (A)
Homer, Edward C. (A)
Lee, Walter O. (A)
Millar, J. Z. (A)
Pollard, Leon G. (A)
Weik, Adolph L. (A)
- South Richmond Hill, L.I.
Kahn, Alfred (A)
- Springfield Gardens, L.I.
Graf, William (A)
- Stafford
Sheffer, Olan N. (A)
- Stapleton, S.I.
McArdell, Wesley E. (A)
- Staten Island
De Rosa, Louis A. (J)
White, Joseph P. (A)
Wissmann, Jos. T. (A)
- Suffern
Ennis, Fred E. (A)
- Sunnyside, L.I.
Forrest, Gerard E. (A)
- Syracuse
Blaich, J. Ray (A)
Hall, Victor E. (A)
Hild, George E. (A)
Martin, George L. (A)
Mullin, Leroy A. (A)
Nicholson, E. J. (A)
Porter, R. A. (A)
Potter, Melville R. (A)
Randall, Dorus P. (A)
Woodworth, Samuel (A)
- Tonawanda
Maxwell, George G. (A)
Moersfelder, Herbert L. (A)
White, J. W. (A)
- Troy
Hadley, Raymond F. (A)
Harris, Hiram D. (A)
Lavender, Raymond W. (J)
Rives, Frank M. (A)
Warner, Sydney E. (A)
- Tuxedo Park
Loomis, Alfred L. (M)
- Ulster Park
Wickery, John B. (A)
- Utica
Allen, Raymond H. (A)
Howlett, Chas. A., Jr. (J)
King, Francis N. (A)
Lockner, J. Glynn (A)
Lott, Harry H. (A)
Steates, E. Francis (A)
Terrill, W. Nessler (A)
- Water Mill, L.I.
Corwith, Howard P. (M)
- Watervliet
Barron, Alfred (A)
- Waverly
Redington, Edmund B. (A)
Sosnoski, Walter J. (A)
- Westbury, L.I.
Eldredge, Earle E. (A)

NEW YORK (Continued)

- West Hempstead, L.I.
Magness, Scott A. (A)
- West New Brighton, S.I.
Bedford, George W. (A)
Langhammer, Charles F. (A)
- West Point
Gillette, E. C., Jr. (A)
Serig, Howard W. (A)
Willis, James S. (A)
- White Plains
Arcand, Wilfred E. (J)
Bailey, William M. (M)
Griggs, Elmer V. (A)
Halstead, Wm. S. (A)
Lamarque, Jas. W. (A)
Minton, John (F)
- Whitestone, L.I.
Lederhaus, Herman William (A)
Summers, Llewellyn L. B. (A)
- Williamsville
Hopkins, Nelson S. (A)
- Winfield, L.I.
Haug, Joseph (A)
- Woodhaven, L.I.
Cooper, Gustavus A. (A)
Leuteritz, Hugo C. (A)
- Woodmere, L.I.
Birkhahn, Robert C. (A)
Warren, Charles F., Jr. (A)
Ziegler, Frederick J. (A)
- Woodside, L.I.
Asch, Marcus (A)
Goldner, Jack H. (A)
Haas, Paul (A)
Rettenmeyer, Francis X. (M)
Reuman, William H. (A)
Schmidt, Erwin (A)
Valentine, Russell D. (A)
- Yonkers
Craig, Albert C. (A)
Enders, Charles F. (A)
Grey, Charles C. (A)
Petersen, Robert L. (A)
Rollo, W. Smith (A)
Rudove, A. J. (A)
Runyon, Carman R., Jr. (A)
Seitz, Frank A., Jr. (J)
Van Dyck, Arthur F. (F)
- NORTH CAROLINA
Chapel Hill
Bernstein, Julius (A)
Charlotte
Gluck, E. J. (A)
Durham
Seeley, Walter J. (A)
Fort Bragg
Allen, Otis T. (A)
Gastonia
Morris, Robert S. (A)
Henderson
Woolard, E. W. (A)
Highlands
McCarty, Sidney L. (A)
Marion
Martin, Hubert C. (A)
Pittsboro
Roberson, Robert E. (J)
- Raleigh
Massey, Andrew (A)
- Saluda
Johnson, Roy L. (A)
- Tarboro
Shaw, H. B., Jr. (A)
Winstead, Theo. B. (A)
- Washington
Jowdy, Mitchell (A)
- Winston-Salem
Hedrick, Phil F., Jr. (A)
Lee, Douglas J. (A)
- NORTH DAKOTA
Bismarck
Lucas, Stanley M. (A)
- Fargo
Hetland, Julius M. (A)
Michael, David F. (A)
Olson, Martin N. (A)
Payne, J. Fred, Jr. (J)
- Grand Forks
Dettman, Robert A. (J)
Garard, Earl A. (A)
Jenkins, David R. (A)
- Langdon
Charrier, George M. (A)
- Mandan
Richardson, Otto H. (A)
- OHIO
Akron
Aitkenhead, John, Jr. (A)
Campbell, O. V. (A)
Curtis, James O. (A)
Dinger, Harold E. (A)
Hood, Norman R. (A)
Kappus, Paul B. (A)
Nerhood, H. Elmer (A)
Palmer, Roland F. (A)
Smith, Paul Clarence (A)
Townsend, S. W. (A)
Weaver, Rayman E. (A)
- Ashtabula
Andrus, Roy E. (A)
- Athens
Green, Darrell B. (A)
- Barberton
Austin, A. O. (F)
Hillebrand, W. A. (M)
Snyder, E. B. (M)
- Bellefontaine
Wells, Martin M. (A)
- Berea
Anderson, Raymond T. (A)
- Blanchester
Saville, Homer F. (J)
- Blue Ash
Chapman, Robert T. (A)
- Bluffton
Steiner, Harold R. (A)
- Brecksville
Lefler, Ralph H. (A)
- Cambridge
Nelson, R. G. (A)
- Canton
Herbruck, Wm. M. (A)
Leist, Lowell G. (A)
Weckel, Wilson E. (A)
- Cincinnati
Aughenbaugh, William K. (A)
Austin, Edward (M)
- Boyle, H. G. (A)
Bussard, E. J. II. (M)
Chamberlain, Paul (A)
Chambers, Jos. A. (M)
Craig, Palmer H. (A)
Crosley, Powell, Jr. (M)
Crowe, Merwin E. (A)
Drake, Robert L. (A)
Felix, Clarence G. (A)
Glessner, Jack M. (A)
Gohsen, Richard C. (A)
Grosselinger, W. H. (A)
Heina, William M. (A)
Hentz, Elmer G. (A)
Hoffman, Ralph (A)
Johnston, F. E. (M)
Kellogg, Leonard A. (A)
Kesheimer, Eugene V. (A)
Kidd, Andrew (A)
Kierulff, William E. (M)
Kilgour, Charles E. (M)
Klein, Helen (A)
Kolks, Richard H. (A)
Lampkin, Guy F. (A)
Lehnhoff, Raymond G. (A)
Leibrock, Brice (A)
Lockwood, E. C. (A)
Magly, John W. (A)
Marshall, Charles J. (J)
Meyrose, Hubert S. (A)
Myers, William H. (A)
Osterbrook, W. C. (A)
Parkhurst, Austin F. (M)
Peterson, Charles W. (M)
Platts, George F. (A)
Rockwell, Ronald J. (M)
Stocker, Harold C. (A)
Valentine, Forrest C. (A)
Vanek, Lawrence J. (A)
Verkley, B. M. (A)
Vickers, C. A. (A)
Vogelsang, Geo. E. (A)
- Clayton
Jones, Carl C. (A)
- Cleveland
Ackerman, E. K. (A)
Akers, William F. (A)
Alston, Vernon C. (A)
Baldwin, Preston De Grauw (A)
Benkelman, Glen F. (A)
Benzon, C. G. (A)
Bowditch, Fred T. (A)
Bowman, Leon F. (A)
Butler, Roy (A)
Calkins, William G. (A)
Canady, Donald Ray (A)
Carlton, Raymond A. (A)
Curl, Van C. (A)
David, Bruce W. (M)
Daymude, John F. (A)
Disbrow, John D. (A)
Domizi, Dante (A)
Donaldson, Robt. O. (A)
Dorazil, A. F. (A)
Dorn, Harry P. (A)
Eberle, Wilbert H. (A)
Engholm, Bernard A. (M)
Gay, Paul Stead (A)
Gorecki, Joseph M. (J)
Gove, Edward L. (A)
Hannum, J. C. (A)
Hunt, Louis W. (A)
Jenkins, Myron Z. (A)
Kaehni, Frank J. (A)
Kintner, Deane S. (A)
Klein, Israel (A)

- OHIO (Continued)**
- Leonard, S. Edwin, Jr. (A)
 Little, D. S. (A)
 Lyle, Charles F. (J)
 McCall, Keith E. (A)
 McMahon, Alvin (A)
 Neuert, H. L. (A)
 Newman, Joseph S. (A)
 Okeson, Hugh B. (A)
 Owens, Richard M. (A)
 Pruitt, Wilbur C. (A)
 Read, George T. (A)
 Roddy, Vincent S. (A)
 Roebuck, Neel (A)
 Ryder, Jack D. (A)
 Schneberger, G. B. (A)
 Schregardus, Dirk (A)
 Scott, Hoyt S. (M)
 Seitz, Valentine (A)
 Shankland, Robt. S. (A)
 Smith, Sereno E. (A)
 Snyder, Robert E. (A)
 Victoreen, John A. (M)
 Sturtevant, Mark (A)
 Ward, Donald O. (A)
 Welman, Victor A. (A)
 Woodward, V. M. (A)
 Worst, J. S. (A)
 Zinser, Henry (A)
- Cleveland Heights**
 Baier, Arthur H. (A)
 Farnham, Ralph E. (A)
 Ostrander, Russell S. (J)
 Williams, Hollie (A)
- Clyde**
 Last, George O. (A)
- Columbus**
 Beer, Richard M. (A)
 Bidlack, Cecil S. (A)
 De Weese, Herbert William (A)
 Everitt, William L. (M)
 Higgy, Robert C. (A)
 Johnston, Geo. D. (A)
 Morgan, Ben A. (A)
 Roberts, Sheldon (A)
 Smith, Carl E. (A)
 Storck, Howard C. (A)
 Young, D. A. (A)
- Conneaut**
 Hirsimaki, Eeli N. (J)
- Copley**
 McKim, Royal W. (A)
- Custar**
 Talmage, Wilbur L. (A)
- Cuyahoga Falls**
 Makinson, Grant E. (A)
- Dayton**
 Anderson, J. E. (A)
 Apuli, John Arne (A)
 Barbulesco, Constantin D. (M)
 Bell, Floyd W. (A)
 Bickel, Howard I. (A)
 Bossard, Gishbert L. (M)
 Braden, Paul F. (J)
 Brump, H. L. (A)
 Byrd, Nevin C. (A)
 Coe, James C. (A)
 Colvin, Raymond A. (A)
 Cooper, William H. (A)
 Copp, Roy S. (A)
 Cotter, Edwin M. (A)
 Desch, Joseph R. (A)
 Eaton, W. G. (M)
 Eckert, Clarence C. (A)
 Filgate, John T. (A)
- Forbes, Henry C. (M)
 Franzwa, F. J. (A)
 Friedman, Harry (A)
 Gerstle, John (A)
 Glendenning, D. B. (A)
 Harmon, W. S. (A)
 Hendricks, Lester A. (A)
 Jackson, Paul F. (A)
 Kronenwetter, Harold G. (A)
 Leeka, Warren C. (A)
 Lohmann, Robert S. (A)
 Messer, Herbert G. (A)
 Mumma, Robert E. (A)
 Neilson, N. Smith (A)
 Nichols, Harry J. (A)
 Noyes, Robert H. (A)
 Peoples, Archie G. (A)
 Retter, Cleo T. (A)
 Richmond, L. P. (A)
 Rives, Tom C. (M)
 Sawtell, Raymond I. (A)
 Stelzer, Alphonse C. (A)
 Sweighert, D. V. (A)
 Tholstrup, Henry (A)
 Zimmerman, Robt. F. (A)
- Delaware**
 Stetson, Harlan T. (A)
- Dover**
 Weber, H. S. (A)
- East Cleveland**
 Beasley, Ira E. (A)
 Shipman, Charles H. (A)
 Siddall, Richard (A)
- East Sparta**
 Walker, Nolan S. (A)
- Elyria**
 van der Woude, Fritz (A)
- Fremont**
 Reynolds, Clay E. (A)
- Gambier**
 Cottrell, Casper L. (A)
 Jaues, Robert B. (A)
- Greentown**
 Myers, Willard D. (A)
- Greenville**
 Taylor, Otho E. (A)
- Hamilton**
 Norton, Thurman S. (A)
 Probst, John E. (A)
- Holland**
 Line, F. M. (A)
- Indian Lake**
 Thomas, W. Raymond (A)
- Ironton**
 Loftis, Homer J. (A)
- Kent**
 Kline, Robert L. (A)
- Killbuck**
 Hammontrce, Alvin W. (A)
- Lakewood**
 Barone, Salvatore A. (A)
 Hamman, G. B. (A)
 Hanson, Earl C. (A)
 Hoff, Henry B. (J)
 Marsal, Paul A. (A)
 Pierce, R. Morris (A)
 Salmons, George C. (A)
 Sturtevant, Jas. W. (A)
 Thompson, J. Kent (A)
 Worden, Ralph P. (A)
- Lexington**
 Shuler, John H. (A)
- Lorain**
 Fox, Robert A. (A)
- Louisville**
 Noreen, Carl O. (A)
- Marietta**
 Muscari, Pietro J. C. (A)
- Mason**
 Whitehouse, Jos. E. (A)
- Massillon**
 Ax, Leland S. (A)
 Schwab, Charles B. (A)
- Maumee**
 Rowe, Horace N. (A)
- Medina**
 Kohli, Homer J. (A)
- Mingo Junction**
 Crisante, Aldo (A)
- Mount Gilead**
 Ashbaugh, Edwin C. (A)
- Mount Liberty**
 Bishop, Chester K. (A)
- New Philadelphia**
 Murray, Charles J. (A)
 Nolan, John M. (A)
- Niles**
 Coleman, Robert M. (A)
- North Canton**
 Boger, Clair E. (A)
- Norwalk**
 Leonhardt, Chas. C. (A)
 Walsh, Sam Charles (A)
- Norwood**
 Blair, Russell M. (M)
 Dwyer, Robert J. (A)
 Stautner, Paul L. (A)
 Willging, Louis F. (A)
- Osborn**
 Killheffer, Lawrence D. (A)
- Port Clinton**
 Anderson, Gilbert J. C. (A)
- Portsmouth**
 Brake, Basil H. (A)
 Byers, James Clifton (A)
 Jackson, Sylvan E. (A)
- Roseville**
 Sagle, R. E. (A)
- Sandusky**
 Voight, Richard J. (A)
- Shiloh**
 White, Kenneth E. (A)
- Springfield**
 Bushong, Victor L. (A)
 Morrow, Lorentz A. (A)
 Reid, Thomas A. (A)
 Schaefer, Carl A., Jr. (A)
 Snyder, Ellsworth W. (A)
- Toledo**
 Barris, H. Allen (A)
 Bitter, A. Romeyn (A)
 Browne, Merton S. (A)
 Dupuis, Ernest F. (J)
 Foley, J. W. B. (A)
 Pilzecker, Arthur (A)
 Skeels, Dudley K. (A)
 Stringfellow, Wm. (A)
 Underwood, Norman B. (J)
- Wapakoneta**
 Copeland, Herman A. (A)
- Westerville**
 Nafzger, Lester H. (J)

- OHIO (Continued)**
- Youngstown**
 Kincaid, Owen D. (A)
 Kratz, Luther M. (A)
 Pennock, P. L., Sr. (A)
 Phillips, R. G. (A)
 Wilkens, Bernard T. (A)
- OKLAHOMA**
- Bartlesville**
 Eastman, Fred T. (A)
 Miller, Erdene K. (A)
- Boise City**
 Abshere, Lilburn O. (A)
- Coalgate**
 Parkinson, Lee D. (A)
- Chelsea**
 Jones, Varnakale L. (A)
- Enid**
 Edwards, Lyman M. (A)
 Spear, Wade H. (A)
- Fort Sill**
 Beckley, S. A. (A)
 Potetz, Daniel P. (A)
- Oklahoma City**
 Allen, Roy (A)
 Bathe, Charles E. (A)
 Chapman, Alan B. (A)
 Downey, C. E. (A)
 Ehret, Kenneth M. (A)
 Herrmann, Frank (A)
 Kramer, V. J. (A)
 Lovell, Herman J. (A)
 Marrinan, Horace J. (J)
 Mier, C. W. (A)
 Pata, Yaromir J. (A)
 Prell, George R. (A)
 Sears, Garold D. (J)
 Shaw, Dudley (M)
 Wallace, David R. (A)
- Okmulgee**
 White, R. Jordan (A)
- Shawnee**
 Barron, Arthur J. (A)
- Stillwater**
 Oboukhoff, Nicholai M. (M)
- Tulsa**
 Banks, J. Vernon (A)
 Bowen, Leonard R. (A)
 Carpenter, Hugh (A)
 Green, W. G. (A)
 Jones, Burle R. (A)
 McNally, Eugene C. (J)
 Probert, Edward (A)
 Roach, Harry J. (J)
 Stinson, Lawrence W. (A)
 Van Doeren, C. A. (A)
 White, Karl K. (J)
 Willson, P. L. (A)
 Wise, James O. (A)
- Tuttle**
 Coates, B. Franklin (A)
- Woodward**
 Shircliff, Emmett (A)
- OREGON**
- Bend**
 Beatty, Dwight L. (A)
- Corvallis**
 Albert, Arthur L. (A)
 Feikert, Grant S. (A)
 Jordan, Jacob (A)
 Klein, William S. (A)
 Morris, James M. (A)
- Freewater**
 Parr, Clifford (A)
- Medford**
 Rush, Floyd M. (A)
 Walker, Verl G. (A)
- Milwaukie**
 Perkins, Oliver D. (J)
- Multnomah**
 McAllister, Jas. D. (A)
- North Bend**
 Pickett, Earl L. (A)
- Portland**
 Cotton, Richard J. (A)
 Crupper, Homer L. (A)
 Deardorff, Ralph W. (A)
 Janacek, Karl R. (A)
 Kleist, Walter A. (A)
 Neubauer, Edwin W. (A)
 O'Day, Marcus (A)
 Olin, R. C. (A)
 Paul, Byron R. (A)
 Singleton, Harold C. (A)
 Trumbull, A. F. (A)
 Welbon, Roy E. (A)
- PENNSYLVANIA**
- Adelphi**
 Woodward, Bruce J. (A)
- Aldan**
 Earle, Ralph P. (A)
 Trauner, George T. (A)
- Alden**
 Cooley, Elihu H. (A)
- Allentown**
 Bowman, Chas. W. (A)
 Brown, Henry J. (A)
 Clauss, Fred W. (A)
 Eckert, Byron H. (A)
 Grammes, Clarence W. (A)
 Hardner, Francis J. (A)
 Hilliard, Winfield E. (J)
 Keck, Kenneth K. (A)
 Kurtz, Clyde R. (A)
 Lichtenwalner, Howard W. (J)
 Nadig, Stanton E. (A)
 Pond, E. W., Jr. (A)
 Sauerwine, Charles Augustus (A)
 Taylor, Russell R. (A)
 Thomas, Charles V. (A)
 Young, Charles S. (A)
- Allenwood**
 Schooley, Harold (A)
- Altoona**
 Douglas, Earl C. (A)
 Feld, John (A)
 Gable, Robert B. (A)
 Underhill, Charles R., Jr. (A)
- Ambridge**
 Svegel, Peter J., Jr. (J)
- Ardmore**
 Wilkinson, Gordon O. (A)
 Worrell, Howard S. (A)
- Avalon**
 Allen, James G. (M)
- Bangor**
 Bruschi, Lewis John (A)
- Bellefonte**
 Fritgen, Edward N. (A)
- Bellevue**
 Armor, James C. (A)
 Bonbar, C. Floyd (A)
- Bethlehem**
 Bertolet, Benneville S. (A)
 Hottel, C. W. (A)
 Knutson, Henry C. (A)
 Seyfert, Stanley S. (M)
- Bradford**
 Francis, Thomas C. (A)
- Brownstown**
 Harnish, Ray M. (A)
- Cambridge Springs**
 Lord, Harry R. (A)
- Carrolltown**
 Brophy, Francis Joseph, Jr. (A)
- Chester**
 Mitchell, John C. (A)
 Rapagnani, Peter A. (A)
- Chestnut Hill**
 O'Neill, John P. (A)
- Childs**
 Faling, Cecil L. (A)
- Clarks Green**
 Mack, Dahl W. (A)
- Connellsville**
 Craig, Jack (J)
 Silcox, Albert S., Jr. (A)
- Danville**
 Deaner, Haydon M. (A)
- Darby**
 Knight, Winfield W. (A)
- Drexel Hill**
 Brandt, William A. (A)
 Shafer, Albert G. (A)
 Sharpless, A. Roberts (A)
 Willard, Joseph M. (A)
- Duquesne**
 Murcek, S. J. (J)
- Easton**
 Beans, Floyd L. (A)
 Deutschman, Borah H. (A)
 Hatch, Ray D. (A)
- East Pittsburgh**
 Chubb, Lewis W. (M)
 Conrad, Frank (F)
 Evans, Walter C. (M)
 Hanna, Clinton R. (M)
 Hitchcock, R. C. (M)
 Kilgore, G. Ross (A)
 Kintner, Samuel M. (F)
 McKeel, P. De Forrest (A)
 Noble, Harrell V. (A)
 Osbon, William O. (A)
 Swedlund, Lloyd E. (A)
 Upp, Charles B. (A)
- Edgewood**
 Lewis, L. V. (A)
- Elkins Park**
 Herr, Bruce R. (A)
- Emporium**
 Ackman, H. E. (A)
 Hayward, John B. (A)
 Huchberger, Alfred P. (A)
 Jones, Walter R. (A)
 Klineshaver, Gordon H. (A)
 Miller, Carl (A)
 Rishell, George L. (A)
 Wilson, M. Dean (A)
 Wise, Roger M. (M)
- Eric**
 Jordan, Ralph E. (A)

PENNSYLVANIA (Cont.)

Metzner, Maxwell W. (A)
Perkins, Laurence M. (A)
Swaney, Bernard H. (J)
Etna
Johnstone, R. S. (A)
Exeter Boro
Ferroni, Joseph A. (A)
Flemington
Kunkle, Charles F. (A)
Fox Chase
MacFadden, Wilford C. (A)
Meriman, John C. (A)
Fullerton
Bachman, Edwin J. (A)
Germantown
Weyl, Charles N. (M)
Glenside
Leonard, A. A. (A)
Greensburg
Hawk, William K. (A)
Harrisburg
Bauer, Warren (A)
Beachley, Vance E. (A)
Detweiler, Jay E. (A)
Drumheiser, Andrew W. (A)
Gardner, Wm. L., Jr. (A)
Grim, Clare R. (A)
Hall, Thomas, Jr. (A)
Hardy, George E. (A)
Heckman, J. W. (A)
Knerr, G. Russell (A)
McCachren, W. S. (A)
Mummert, Russell E. (A)
Peffer, Ralph M. (A)
Penrose, L. A. (A)
Steiger, Charles H. (A)
Walanka, M. R. (A)
Highland Park
Greenwald, Arthur A. (A)
Holmesburg
Berrien, Paul H. (A)
Honesdale
Burlein, Lester F. (A)
Hummelstown
Cassady, P. H. (A)
Irwin
Brook, Alf (A)
Johnsburg
Baldwin, Arthur V. (A)
Carson, William G. (A)
Johnstown
Reid, A. J. (A)
Vaughan, Kenneth A. (A)
Kane
Beatty, Rue T. (A)
Keiser
Coroniti, Samuel C. (A)
Kingston
Brown, Ralph M. (A)
Kutztown
Sharadin, Francis A. (A)
Lancaster
Geise, Julius C., Jr. (A)
MacMillan, Wm. T. (A)
Snively, B. L. (A)
Stauffer, J. Luke (A)
Langhorne
Newbold, W. H. (A)
Lansdale
Schieber, Leonard B. (A)

Lansdowne
Kimball, Gardner W. (A)
Michaelis, H. Paul, Jr. (A)
Simons, Russell (A)
Thompson, Roland F. (A)
Lemoyne
Miles, Lester F. (A)
Smiley, William A. (A)
Media
Delbert, Simon, Jr. (A)
Merion
Dolan, William R. (A)
Milton
Butler, Wilson M. (A)
Minersville
Rothermel, Edwin F. (A)
Monessen
Parenti, Anthony M. (A)
Monongahela
McCallister, Jas. D. (A)
Morton
Greathhead, Arthur W. (A)
Mount Airy
Blackwood, Geo. C. (A)
Brown, Reynolds D., Jr. (A)
Ehret, Cornelius D. (F)
Ellinwood, Kenneth M. (A)
McDowell, Albert P., Jr. (A)
Raycroft, Louis B. F. (A)
Mount Carmel
Gross, Benjamin F. (A)
Narberth
Bates, Clifford W. (A)
Ford, John R. (A)
Lafore, John A., Jr. (A)
New Bethlehem
Collett, Paul (A)
New Castle
Martin, Norman A. (A)
New Cumberland
Fager, Bradford M. (A)
Newportville
Smith, Edgar H. (A)
Norristown
Davis, George C. (A)
Hausmann, Ernest O. (A)
Place, Samuel W. (A)
Sands, William F. (A)
Warren, George R. (A)
North East
Youngs, Howard E. (A)
Oak Lane
Sirms, Wiswald J. (A)
Oakmont
Best, Victor C. (A)
Oil City
Inler, Glenn M. (A)
Paca, William S. (A)
Rasmussen, Robert (A)
Palmyra
Balsbaugh, Clair L. (A)
Perkasie
Reichley, Charles A. (A)
Philadelphia
Airston, Alexander J. (A)
Apker, Charles L. (A)
Bartlett, Millard C. (A)
Bechler, W. C., Jr. (A)

Bell, George D. (A)
Benge, J. R. (A)
Bloom, Walter (A)
Bonn, Norman E. (A)
Bosco, Joseph F. (J)
Bowers, Frank L. (A)
Breuer, John (A)
Brewster, Grant (A)
Bromley, John E., Jr. (A)
Brown, H. Wilbur (A)
Burnside, Don G. (A)
Carpovale, Peter (A)
Chambers, Carl C. (A)
Clark, Charles F. (A)
Cohen, Fred (A)
Cordova, F. B. (A)
Cowles, E. E. (A)
Cummings, B. Ray (M)
Da Costa, Robt. C. (A)
Deal, Harmon B. (M)
Doyle, E. D. (A)
Dunn, James C. (A)
Earnshaw, David P. (A)
Eby, Hugh H. (A)
Eby, John B. (A)
Eckert, Edward J. (A)
Ellis, William G. (M)
Eskuchen, Frank G. (A)
Etkin, Harry (A)
Filderson, Joseph (A)
Fisher, Roy S. (A)
Fossett, Fred E. (A)
Frederick, Andrew (A)
Frederick, Calvin M. (A)
Freedman, H. J. (A)
Frigar, John, III (A)
Geist, Henry J. (A)
Gengenbach, Albert W. (A)
Giannini, Gabriel (A)
Gilbert, Walter E. (A)
Gillen, John James (A)
Godsho, Albert P. (A)
Guinan, John J. (A)
Guzik, Nicholas J. (A)
Hagan, Edward J. (A)
Haines, Joseph, Jr. (A)
Heitman, Charles E., Jr. (A)
Helfenstein, Edwin (A)
Higgins, Harold R. (A)
Hills, Jos. Melville (A)
Hofberg, Alf H. (A)
Holland, Walter E. (M)
Hollister, Kenneth R. (A)
Holtzler, Ralph M. (A)
Huttenloeh, Robt. M. (A)
Ingham, James, Jr. (A)
Karcher, Donald (A)
Karker, Anthony S., Jr. (A)
Kearney, L. E. (A)
Keller, Paul A. (A)
Kienzie, D. R. (A)
Kinnier, Donald (A)
Klenk, Julius G. (A)
Kurdziel, John F. (A)
Lodge, Edmund G. (A)
Long, Marvin (A)
Ludwig, Samuel C., Jr. (J)
Lyman, Harry J. (A)
MacHugh, Wm. L. (A)
MacNabb, Vernon C. (A)
Martino, Alphonso E. (A)
Mattia, Ralph F. (A)
Mayea, Lawrence E. (A)
Mayers, Harvey F. (A)
McIlwain, Knox (A)
Merkel, Henry F. (A)

PENNSYLVANIA (Cont.)

Mevius, John C. (A)
Miller, Charles C. (A)
Miller, John M. (F)
Miller, Joseph J. (A)
Morris, George W. (A)
Moss, Stanley A. (A)
Mouradian, H. (A)
Munton, John D. (A)
Murri, Joseph (A)
Packard, Charles A. (A)
Persons, Edgar N. (A)
Podolsky, Leon (A)
Ponsford, Walter W. (A)
Prow, Albert H. (A)
Rabinowitz, Meyer (A)
Reeves, E. H. (A)
Robinson, Aloysius V. (A)
Robinson, Harris A. (A)
Ross, Stewart C. (A)
Saunders, Wm. P. (A)
Senior, David B. (A)
Smuraglia, F. (A)
Snyder, Christopher L. (A)
Snyder, Richard L. (A)
Strassman, Irving (A)
Stroud, Ralph J. (A)
Suckle, Benj. W. (A)
Tarpley, Raymond E. (A)
Tarzian, Sarkes (A)
Traugott, Paul (A)
Trinkle, Wilmer S. (A)
Trumpy, Jay W. (J)
Tucci, Thos. Jos. (A)
Tuska, Clarence D. (A)
Van Horn, J. C. (M)
Walker, Harold (A)
Warren, S. Reid, Jr. (A)
Weise, Richard C. (A)
Williams, Albert J., Jr. (A)
Winchell, Walter H. (A)
Wockey, Peter F. (A)
Wolf, Clarence, Jr. (A)
Wood, Homer D. (A)
Woodcock, Thos. W. (A)
Youngblood, Isaac J. (A)
Phoenixville
Shuhart, John H. (A)
Pittsburgh
Baumgarten, Frank A. (A)
Buerger, Charles B. (A)
Buzzard, A. J. (A)
Clark, Clarence M. (A)
Clary, Howard L. (A)
Cruikshank, Omar T. (A)
Diamond, Hyman (A)
Dill, George C. (A)
Douglass, Edgar J. (J)
Douglass, Robert H. (A)
Goodboy, George O. (A)
Gorham, Robert C. (A)
Griffith, Roy T. (A)
Haller, George L. (A)
Krause, C. K. (A)
McKinley, J. G. (A)
Murray, A. H. (A)
Osborn, Perry H. (A)
Ostermeier, C. H. (A)
Overholt, Ralph, Jr. (A)
Peters, Leo J. (A)
Potter, William S. (A)
Reynolds, C. C. (A)
Richards, Folke (A)
Robin, Gilbert (A)
Roth, Albert (M)

Schlesinger, Louis B. (A)
Shafer, William L. (A)
Shreve, A. French (A)
Staege, Stephen A. (A)
Sunnergren, Arvid P. (A)
Taylor, Donald A. (A)
Templeman, David (A)
Tervens, Lewis A. (M)
Thompson, Reginald G. (A)
Wiesmann, E. T. (A)
Wyckoff, Ralph D. (M)
Pottstown
Fisher, Charles H. (A)
Mellon, Ralph E. P. (A)
Pottsville
McAllister, Ralph H. (A)
Quakertown
Bartholomew, Robert G. (A)
Leibe, Frank A. (A)
Reading
Albert, William V. (A)
Good, Horace D. (A)
Hornberger, Jos. E. (A)
Kissinger, J. Herbert (A)
Liesman, Francis J. (A)
Schock, Harvey H. (A)
Ridgway
Anderson, Thure C. (A)
Rosemont
Forstall, Edward L. (A)
St. Davids
Stewart, Charles H. (M)
St. Marys
Abbott, Harald W. (A)
Saxenburg
Stanier, Donald M. (A)
Schuylkill Haven
Eiler, Donald L. (A)
Schwenkville
Benner, Harold S. (A)
Scranton
Beizer, Harold (A)
Dolph, Stanley E. (A)
Irving, Ira M. (A)
Ornstine, Glenn C. (A)
Oschmann, Adolph W. (A)
Stevens, Wilbur C. (A)
Wilson, George H. (A)
Witkowski, Jos. F. (A)
Sharon
Rankin, Samuel A. (A)
Sharon Hills
Travis, Irven A. (A)
Slatington
Newhard, Stanley C. (A)
Smethport
Biever, Fred H. (A)
Pierotti, William L. (A)
Souderton
Frederick, Albert P. (A)
State College
Woodruff, Eugene C. (M)
Swarthmore
Fussell, Lewis (A)
Hayes, Ralph S. (A)
Swissvale
Bossart, Paul N. (A)
Carothers, William D. (A)
McL. (A)
Gregory, S. D. (A)
Lazich, Branko (A)
Shuey, Paul F. (A)
Whitelock, Leland D. (A)

Tamaqua
Delp, Paul L. (A)
Tarentum
Porter, Harry F. (A)
Trafford
Woodcock, Clay D. (A)
Trooper
Zern, Reber T. (A)
Tyrone
Kearney, Henry B., Jr. (A)
Upper Darby
Chamberlain, Newton M. (A)
Frazier, Howard S. (M)
Lenhart, George R., Jr. (A)
Lewis, Oliver I. (A)
Marsten, Jesse (M)
Mazik, John, Jr. (A)
Shannon, Frank J. (A)
Verona
Sheaffer, Charles T. (A)
Warren
Gruning, John E. (A)
Kieshauer, Fred E. (A)
Wayne
Adelberger, Paul J. (A)
Wesleyville
Dutton, George L. (A)
West Fairview
Ottey, Raymond B. (A)
West Manayunk
Sweeney, Harold V. (A)
West Oak Lane
Hettrich, John H. (A)
West Philadelphia
Caulton, Cyrus O. (A)
Eaton, Geo. W., Jr. (A)
Knoll, Lloyd M. (M)
Wilkes-Barre
Paessler, Robert T. (A)
Shuster, Edmund F. (A)
Speicher, Ellsworth J. (A)
Warner, Barney H. (A)
Wilkinsburg
Armstrong, Ralph W. (A)
Davis, Selden I. (A)
Dieffenbacher, C. C. (A)
Furth, Ernest L. (A)
Harmon, R. N. (A)
Harness, Leroy R. (A)
Johns, Francis J. (A)
Mag, Anthony (A)
Rosenfeld, Millard (A)
Schwarzenback, Earl E. (A)
Seaverson, Oswald I. (A)
Stoddard, Ralph N. (A)
Sutherland, Lee (M)
Trouant, Virgil E. (A)
Ulrey, Dayton (A)
Williamsport
Persio, Louis N. (A)
Petts, Ronald G. (A)
Swanson, Merrill J. (A)
Wilmerding
Irlam, William (A)
Simpson, Edmund H. (A)
Wynnewood
Secley, S. Ward (A)
York
Lever, Philip R. E. (A)
Weigel, Richard C. (A)

RHODE ISLAND

Cranston
Bargamian, John (A)
Brewster, O. H. (A)

East Providence
Andrews, Howard L. (A)
Ward, Chester W. (A)

Eden Park
Cumerford, Arthur S. (A)

Newport
McCandlish, B. V. (A)
Myers, Gilbert B. (A)

North Providence
Thomas, Harold (A)

Pawtucket
Appleby, Bertie (A)

Providence
Bellem, Lewis S., Jr. (A)
Huddy, Franklin S. (A)
Kraus, Charles N. (A)
Leibow, Saul A. (A)
Perron, Raymond T. (A)
Slocum, Walter E. (A)
Smith, Malcolm H. (A)
Wright, Marshall C. (A)

Woonsocket
Heroux, George A. (A)
Marier, Edward P. (A)
Massart, R. E. (A)
Teachman, Alfred E. (A)

SOUTH CAROLINA

Aiken
Terry, Laurence M. (A)

Anderson
Mitchell, John A. (A)

Charleston
Hooper, Albert (A)
Rucker, Frederick (A)

Clemson College
Garrison, Paul J. (A)
Tingley, Freeman T. (A)

Greenville
Reed, Pinckney B. (A)

Pomaria
Hipp, Richard, Jr. (A)

Spartanburg
Etheredge, George W., Jr. (A)

SOUTH DAKOTA

Brookings
Crothers, H. M. (A)

Lennox
Van Bockern, John H. (A)

Pierre
Craig, Robert B. (A)

Rapid City
Halley, Samuel R. (A)
Kammerman, John O. (A)

Sanator
Tilgner, Shelton R. (J)

Yankton
Bowyer, Robt. A., Jr. (A)
Seils, Harry A. (A)

TENNESSEE

Athens
Knight, Gaylord A. (A)

Bristol
Jellicorse, Harold L. (A)

Chattanooga
Eiselein, J. E. (A)
George, Everett E. (A)

Johnson City
Shamhart, Paul B. (A)

Knoxville
Adcock, S. E. (A)
Garant, Edward C. (A)
Sharpe, Milburne O. (A)

La Grange
Sims, James W. (A)

Memphis
Cowles, John W., Jr. (A)
Shafer, Arthur B. (A)
Slavick, Henry Wm. (A)

Nashville
Campbell, John S. (A)
Leftwich, E. H. (A)
Montgomery, L. H., Jr. (A)
Montgomery, William C., Jr. (A)
Randolph, George T. (A)

Saltillo
Berry, James S. (A)

TEXAS

Albany
Codington, Jerome H. (A)

Amarillo
Berg, Arthur A. E. (A)
Martin, J. Laurance (A)
Reville, T. A., Jr. (J)
Todd, William F. (A)
Wimberly, W. Ben (J)

Beaumont
Bryan, William J. (A)
Bush, Charles R. (A)
Daniels, Paul H. (A)
Gower, S. Gifford (A)
Green, John J. (A)
Knight, Charles (A)
Trevey, C. B. (A)

Brady
Stark, L. P. (A)

Brownsville
Crosas, Ernesto G. (A)
Jackson, Frank P. (A)

College Station
Dillingham, H. C. (A)

Corpus Christi
Dunn, Earl C. (A)
Lockhart, Hildred B. (A)
Nelson, C. L. (A)

Dallas
Adler, Benjamin (A)
Crabtree, Alfred E. (A)
Cullum, A. Earl, Jr. (A)
Ellis, W. C. (A)
Feickert, Carl A. (A)
Glass, Robert Z. (A)
Harrison, L. E. (A)
Hayes, Thomas P. (A)
Hull, Blake D. (A)
Jackson, N. H. (A)
Johnson, Wm. D. (A)
Lawther, Harry P., Jr. (A)
Lewis, William S. (A)
McDermott, Eugene (A)
Nolan, Arthur B. (A)
Rhodes, L. G. E. (A)
Rich, F. L. (A)
Sheffield, H. M. (A)
Sullivan, J. R. (A)
Tucker, Durward J. (A)

Unruh, Franklin T. (A)
Wilkinson, Lee A. (A)
Witty, W. M. (A)
Zeidlik, William J. (A)

Del Rio
Weldon, James O. (A)

Denton
Fain, Edgar A. (A)
Groves, Wayland M. (A)

El Paso
Harold, George (A)

Fort Worth
Abey, Robert E. (A)
Branch, William E. (M)
Carpenter, Chas. I. (A)
Currie, W. Otho (A)
Golder, Frank E. (A)
Palmer, James (J)
Stinson, Ronald C. (A)

Galveston
Dickey, J. W. (A)
Warren, Andrew J. (A)

Giddings
Biar, L. E. (A)

Houston
Carter, Wm. H., Jr. (A)
De Bardeleben, John F. (A)
Dupree, E. M. (M)
Hoskins, Laban A. (A)
Hunt, J. W. (A)
Machotka, Slavomir (A)
Meyer, J. M. (A)
Perlitz, W. H. (A)
Ricker, Norman H. (A)
Ritzau, K. (A)
Rodgers, H. C. (A)
Waters, James S. (A)
Wheeler, Harvey T. (A)
Wolf, R. C. (A)
Zimmerman, Geo. E. (A)

Kerens
Hulan, A. G. (A)

Lubbock
Abbutt, William H. (A)

Mount Enterprise
Furlow, John T. (A)

New Braunfels
Rompel, Walter A. (J)

Plano
Hays, Howard D. (A)

Port Arthur
Sims, Leonard H. (A)

Randolph Field
Muller, Carl W. (A)

Rockland
Wilson, S. Earle (A)

San Angelo
Jones, Frank M. (A)

San Antonio
Finter, Clyde V. (A)
Hallam, John T. (A)
Hyman, Kenneth R. (J)
Rayburn, Geoffrey D. (A)
Wall, Leavell D. (A)

Stamford
Billingsley, Jos. B. (A)

Temple
Lesikar, George (A)

Waco
Cole, Roy H. (A)
De Jarnette, W. Y. (A)

Wichita Falls
Ridling, Carroll W. (A)

UTAH

Ogden
Stanton, James M. (A)

Salt Lake City
Baldwin John M. (A)
Farnum, Willis H. (A)
Harris, Leland D. (A)
Lasky, Philip G. (A)
Peterson, Herbert C. (J)
Yeates, Ephraim Le Roy (A)

Spanish Forks
Fullmer, Don A. (A)

VERMONT

Barnet
Somers, Brock A. (A)

Brattleboro
Smith, Wolcott M. (A)

Northfield
Howes, Douglas E. (A)

Poultney
Westeren, Sidney E. (A)

VIRGINIA

Alexandria
Cooper, Donald H. (A)
Dowie, James A. (M)
Roesch, Robert E. (A)

Arlington
Dresser, O. C. (A)
Fredricks, John E. (A)

Cherrydale
Stokes, Howard S. (A)

Clarendon
Looney, Don B. (A)

Clifton Station
Harris, R. Turner (J)

Danville
Boland, John N. (J)
Clarke, Allen S. (A)

Farmville
Harrison, Charles W., Jr. (J)

Fort Meyer
Mason, Dale P. (A)

Hampton
Akre, Roland O. S. (A)

Herndon
Taylor, Eustace H. (A)

Louisa
Bullock, John W. (J)

Lynchburg
Heiser, Albert E. (A)
Henry, Neil E. (A)
Orth, John T. (A)

Norfolk
Foley, W. R. (A)
Kortes, George T. (A)
McFarland, D. C. (A)
Payette, Walter S. (A)

Portsmouth
Baart, John C. (A)

Quantico
Hawthorne, W. G. (A)
Mizell, M. H. (A)

Richmond
Auckerman, U. H. (A)
Eubank, Robert N. (A)
Harrison, William B., Jr. (A)
Havens, Wilbur M. (A)
Knapp, Gilbert P., Jr. (A)
Rosenberg, Bernard L. (A)

Steere, James A. (A)
Stephenson, Jos. W. (A)
Woods, David C. (A)

Roanoke
Avery, Robert D. (J)
Maddox, Francis E. (A)

Rosslyn
Billups, Robert W. (A)

WASHINGTON

Arlington
Murray, Henry (A)

Auburn
Nagata, Charles N. (A)

Bellevue
Voris, Don Lea (A)

Bremerton
Jorgenson, A. A. (A)
Cooper, Lowell (M)
Wilson, George F. (A)

College Place
Kretchmar, G. G. (A)

Edmonds
Hammond, W. Murray (A)
Leyda, George D. (A)

Everett
Eckstrom, Herbert E. (A)
Malnstrom, Helmer W. (A)
Sands, Leo G. (J)

Gig Harbor
Berkheimer, R. H. (A)

Mount Vernon
Hannaford, Harold W. (A)

Port Townsend
Mullaney, Harold F. (A)

Pullman
Hatfield, Lester N. (A)

Raymond
Wells, James E. (A)

Seattle
Austin, Leslie C. (A)
Bach, Roy O. (A)
Baker, Earl W. (A)
Begg, W. E. (A)
Berge, Sigfred F. (A)
Bouson, Herbert H. (M)
Brown, N. D. (A)
Burleigh, John A. (A)
Dailey, Arthur C. (A)
Du Marce, Herman (A)
Eastman, Austin V. (A)
Estes, Fred B. (A)
Fitzpatrick, Geo. W. (A)
Foster, Nick H. (A)
Francis, Oliver T. (A)
Gable, M. (A)
Gleason, Robert J. (A)
Gunston, A. D. (A)
Hackett, Paul J. (A)
Haig, James H. (A)
Halstead, Canute (A)
Hamlin, Frank E. (A)
Henrich, Walter A. (A)
Highleyman, Richard (M)
Huber, Louis R. (A)
Hurlbut, Harold C. (A)
Iversen, J. Vee (A)
Kraft, Vincent I. (A)
Layne, Frank C. (A)
Lischke, Carl C. (A)
Lovejoy, Edwin W. (M)
Martin, Perrin L. (A)
Mason, Howard F. (A)

Melang, Bjorn L. (A)
Menard, Alexis A. (A)
Mitchell, Walter L. (A)
Morris, James E. (A)
Neelands, F. J. (A)
Partello, Melville C. (A)
Pinkman, Herbert N. (A)
Renfro, Harold E. (A)
Robinson, A. K. (M)
Ross, J. D. (A)
Shepard, Wayne D. (A)
Smith, Oliver C. (A)
Tolmie, J. R. (A)
Urey, George M. (A)
Walker, Robert M. (A)
Williams, Chas. E. (M)
Willson, Abner R. (A)
Wiltse, George V. (M)
Wunningham, Harold W. (A)
Zalusky, Eugene R. (A)

Snohomish
Kester, Cecil D. (A)

Spokane
Drobigo, Leo (A)
Dunnigan, Frank A. (A)
Johnson, Carl A. (A)
MacLean, T. Wendell (A)
Prince, Frank W. (A)
Schanks, Maurice J. (A)
Storms, Henry J. (A)
Sutton, Robert B. (J)

Vancouver
Ryan, Lloyd F. (J)

Walla Walla
Lippincott, Elwood W. (A)

Wenatchee
Lanphere, Merle (A)
Nelson, Paul H. (A)
Moore, Thomas H. (A)
Morgan, John T. (A)

WEST VIRGINIA

Carolina
Royal, James E. (A)

Charleston
Berry, Henry P. (A)

Clarksburg
Chorpening, Geo. B. (A)
Koerner, Raymond S. (A)

Fayetteville
Goddard, John B. (J)

Hinton
Criser, Robert J. (A)

Huntington
Derond, Bernard (A)
Gilfilen, Louis J. (A)
Pfau, John A. (A)

Institute
Evans, James C. (A)

Kingwood
Michelson, Peter (A)

Morgantown
Colwell, Robert C. (M)

Wheeling
Bundy, Glen G. (A)
Weimer, Earl W. (A)

Williamson
Pirrotte, Pete (A)

WISCONSIN

Chilton
Gielhart, Bernard R. (A)

Eau Claire
Kovell, George (A)

WISCONSIN (Continued)
Langdell, Henry R. (A)
Nelson, Orrin B. (A)
Janesville
Lighty, Russell D. (A)
La Crosse
Jenks, Leslie E. (A)
Leeman, Alvin (A)
Van Loan, Cullen G. (A)
Lodi
Evert, W. E. (A)
Madison
Austin, Otto C. (A)
Bennett, Edward (F)
Brown, George H. (A)
Buchanan, Orrin R. (A)
King, Ronald (A)
Koehler, Glenn (A)
Manitowoc
Scholten, Charles H. (A)
Menasha
Peerenboom, Cyril A. (A)
Menomonie
Nathness, Semore T. (A)
Milwaukee
Bogenberger, John W., Jr. (A)
Borek, John J. (A)
Bratford, Charles P. (A)
Charbonneau, Allan P. (A)
Cordes, Edwin L. (A)
Deland, Robert E. (A)
Gainer, William P. (A)
Gellerup, D. W. (A)
Giard, E. A. (A)
Golding, Robert M. (A)
Halinton, Harry (A)
Hansen, Russell C. (A)
Hjermstad, Hans U. (A)
Holman, Henry (A)
Hostetler, Amos C. (A)
Hough, William E. (A)
Irving, Emmanuel (A)
Kaetel, Herbert C. (A)
Kaul, William (A)
Kelly, Daniel S. W. (A)
Kennedy, M. W. (M)
Kleist, Alfred H. (A)
Kruse, Charles C. (A)
Matthias, Lynn H. (A)
Nunn, E. D. (A)
Oetting, O. W. A. (M)
Pfeifer, Joseph W. (A)
Roser, Clarence O. (A)
Snead, Sam (A)
Stockle, Erwin R. (M)
Tagart, Sam W. (A)
Thomas, Morris W. (A)
Wareing, Herbert F. (M)
Weiss, Tobias (A)
Neenah
Ponto, Aaron E. (A)
Racine
Dally, Roy (A)
Host, Raymond H. (A)
Rewey
Carpenter, Archie V. (A)
Sheboygan
Peiler, Lawrence F. (A)
Stevens Point
Brickson, Herbert O. (A)
Spindler, Robert E. (A)
Superior
Bridges, W. C. (A)

Washington Island
Gunnlaugson, Jacob (J)
Waukesha
Hebal, William H. (A)
Wausau
Krueger, Otto J. (A)
Wauwatosa
Richardson, Marston S. (A)
West Allis
Meuer, Anthony G. (A)
Whitewater
Haag, Merlin W. (A)
WYOMING
Cheyenne
Fisher, Joseph J. (A)
Hungerford, N. C. (A)
Lawrenz, William (A)
Leland, Wallace H. (A)

ALASKA

Hannon, John P. (A)
Hoke, Vergne L. (A)
Maki, George J. (A)
O'Loughlin, Barth W. (A)
Teague, T. T. (M)

ARGENTINA

Acuna, Segundo P. (A)
Del Pozo, Luis (A)
Hayes, George W. (A)
Hoffman, Ross B. (A)
Malamphy, Mark C. (A)
Noizeux, Pierre (A)
Stevens, Archie M. (F)
Zuev, Vitaly V. (A)

AUSTRALIA

Adams, Charles H. (A)
Bailey, E. G. (A)
Bardin, William F. (M)
Barthold, Godfrey L. (A)
Bauer, A. T. (A)
Baxter, E. W. (A)
Bearup, T. W. (M)
Cherry, Richard O. (A)
Elliott, Frank E. (A)
Fisk, Ernest T. (F)
Fitts, Rupert A. (A)
Goldfinch, H. R. (A)
Grace, A. (A)
Green, Alfred L. (A)
Gronow, William R. (A)
Hayman, William G. (A)
Hooke, Lionel A. (M)
Hooper, Edgar M. (A)
Hutchings, Allan T. (A)
Israel, Bertram F. (A)
Jackson, Alfred C. (A)
Linnett, Douglas N. (A)
Maclurcan, Charles D. (A)
Malone, James J. (M)
Martin, A. F. (A)
Martyn, David F. (A)
McCullough, Geo. R. (A)
McDonald, Arthur S. (M)
McIntyre, Daniel G. (A)
Miller, Frances G. (A)
Mingay, O. F. (A)
Muuro, George H. (A)
Neve, Gordon H. (A)
Persson, Andrew R. (A)
Phillips, Frank A. (A)
Shepherd, Maxwell (A)
Skelton, Thomas H. (A)
Smith, Arthur C. (A)

Steane, G. W. (A)
Sutherland, George B. (A)
Sweeney, Walter M. (M)
Thompson, Cecil (A)
Wright, Eric P. (A)
Wyles, David G. (M)

AUSTRIA

Ehrlich, Karl (A)

BAHAMAS

Cruikshank, John M. (A)
Salter, David (A)

BARBADOS

Archer, Thomas A. (A)

BELGIUM

Embrechts, A. C. (A)
Philippson, Maurice (M)
Vanden Meersche, A. J. (A)
Van Meel, G. M. (A)

BERMUDA

Gady, John W. (A)

BOLIVIA

Houston, Philip M. (A)

BRAZIL

Barzee, George W. (A)
Borges, V. A. (A)
Braggio, J. C. (A)
Cesar, Amaral (A)
Freire, Alvaro (A)
Keir, John (M)
Lacombe, Carlos G. (A)
Da Silva Lima, Antonio C. (A)
De Oliveira, A. Menezes (M)
Pareto, Joao V. (A)
Weeden, Edward H. (A)

BRITISH GUIANA

Fung, John Hamilton (A)

BRITISH NORTH BORNEO

Wade, C. F. Newton (M)

CANADA**ALBERTA**

Clayton, William P. (A)
Duncan, James E. (A)
Field, Percy A. (A)
Freeman, John T. (A)
Maggs, Percy J. (A)
Ryley, Raymond (A)
Sturrock, S. B. (A)

BRITISH COLUMBIA

Bain, J. R. (A)
Barclay, Hugh N. (A)
Bunn, E. (A)
Filtess, Arthur W. (A)
Gilbert, George (A)
Hawkins, Leslie S. (M)
Insulander, Clarence H. M. (A)
Irvine, Basil (A)
Kitchin, J. E. (A)

BRITISH COLUMBIA (Continued)

Lapham, James B. (A)
Mawson, John T., Jr. (A)
Murdoch, G. (A)
Rose, F. W. (A)
Sealey, F. W. (A)
Thomas, Clarence W. (A)
Wong, C. Lindhymn (A)

MANITOBA

Bennett, Gordon S. (A)
Ellinthorpe, J. W. (A)
Grimes, H. B. (A)
Lee, Stanley A. (A)
Leitch, Donald J. H. (A)
McLaughlin, Harry R. (A)
Mills, Gilbert H. (A)
Pound, Harris D. (A)
Salton, Lynn V. (M)
Sinclair, D. B. (J)
Young, M. D. (A)

NEW BRUNSWICK

Foster, Leonard (A)
Stevens, Ronald C. (A)
Thorne, Frank D. (A)
Vaughan, Frank P. (A)

NORTHWEST TERRITORY

Hastings, K. Stuart (A)

NOVA SCOTIA

Martieu, C. H. O. (A)
Nelma, Arsene (A)
Pippy, George A. (A)
Starr, C. Harry (A)
Sutherland, A. (A)

ONTARIO

Ainsworth, A. L. (A)
Ainsworth, Harold (A)
Amos, William G. (J)
Anderson, J. F. (A)
Andres, Paul G. (A)
Bailey, Ambrose L. (A)
Baldwin, Charles O. (A)
Baldwin, George O. (A)
Barber, Walter G. (A)
Bayne, R. R. (A)
Bennett, Hugh (A)
Bergeron, Rosario (A)
Blackburn, Wesley (J)
Blakely, Robt. John (A)
Blessing, G. W. (A)
Bowers, E. J. (A)
Boyd, John W. G. (A)
Brown, Alvin H. (A)
Burrill, Charles M. (M)
Caton, William A. (A)
Choat, William F. (A)
Choate, Herbert R. (A)
Chipsham, K. M. (A)
Cluff, Harold D. (A)
Cochrane, Ian D. (A)
Cooper, Alfred S. (J)
Cooper, Ashton B. (A)
Cooper, J. R. (A)
Copeland, Wm. H. (A)
Creswick, E. A. (A)
Crofts, Cecil T. (A)
Cronk, Harold W. (A)
Dalton, F. K. (M)
Daly, Edmund (A)
Davis, Joseph A. (A)
De Grave, Claude (A)
Dewar, John A. (A)
Dibblee, John (A)

Dick, N. J. (A)
Diwell, Harry (A)
Doan, George F. (A)
Dow, John (A)
Dresser, Carl C. (A)
Dynes, Clarence W. (J)
Edes, Noel H. (A)
Edwards, Charles P. (F)
Emes, Karl C. (A)
Erwin, Raymond W. (A)
Evans, George L. (A)
Fichter, Ludwig (A)
Fiegehen, Maurice G. (A)
Field, George S. (A)
Footte, Geoffrey E. (A)
Ford, J. S. (A)
Fowler, Walter D. (A)
Fox, Florian J. (A)
Fraser, D. M. (A)
Gaby, Frederick A. (A)
Geiger, Douglas G. (A)
Geldert, George M. (A)
Gillingham, A. (A)
Goldhamer, Saul A. (A)
Goodspeed, Lynnore S. (A)

Graham, Burwell (A)
Grant, Eric A. (A)
Grant, Ingol M. (A)
Green, Garnett L. (A)
Gurd, Ronald H. (A)
Hackbusch, Ralph A. (M)
Hamilton, Henry E. S. (A)

Hayman, E. David (A)
Heilig, Carl G. (A)
Henderson, J. P. (M)
Hepburn, Dugald (M)
Hewson, J. H. (A)
Hill, Orville (A)
Hodsoll, Martin (A)
Hollinsworth, V. J. (A)
Holm, Henry R. (A)
Hunt, Bertram D. (A)
Irwin, L. D. (A)
Jackson, Leslie (A)
Kelterborn, W. H. (A)
Killem, Morris (A)
Kimble, Earle B. (A)
Kinnear, Donald R. (A)
Klingehoeffer, Royden H. (A)

Knight, Frank (A)
Kynnersley, Charles (A)
Laurie, William L. (A)
Leonard, Sydney L. (A)
Leslie, John M. (A)
Little, Reginald J. (A)
Little, W. C. (A)
Lowman, Claude (A)
Lowry, Charles A. (M)
Lundy, Stanley R. (A)
Mann, George F. (A)
Marsland, Stanley (A)
Maurer, J. P. (A)
McKichan, Donald B. (A)
McMillan, Donald B. (J)
McMurtry, Cyril A. W. (A)

Meredith, C. C. (M)
Mitchell, Leonard W. (A)
Mogridge, J. Nairn (A)
Montagnes, Henry (A)
Morton, Howard J. (J)
Mott, Harold E. (A)
Moultre, Frank C. (A)
Mullen, Joseph G. (M)
Nauth, G. Raymond (A)
Newman, John R. (A)
Nichlos, W. A. (A)
Northover, Harold W. (A)

O'Byrne, Bernard (A)
Olson, E. (A)
Oxley, Allan B. (A)
Paisley, S. Roy (A)
Patience, A. Melbourne (M)
Pelton, Cecil R. (A)
Pipe, Gordon E. (A)
Pollock, Alexander (A)
Pollock, C. A. (A)
Potter, N. M. (A)
Potter, Robert C. (J)
Poulter, Robert C. (A)
Pounsett, Frank H. R. (A)
Price, Harold W. (A)
Price, Lloyd M. (A)
Price, Roland J. C. (A)
Purser, D. E. (A)
Raycove, Soterious A. (A)

Richardson, Chas. L. (M)
Roedell, Leroy W. F. (A)
Rogers, Edward S. (M)
Rose, Sidney (A)
Rosebrugh, Thos. R. (A)
Rothera, W. F. (A)
Ruedy, Richard (A)
Rush, Walter A. (F)
Russell, Arthur H. K. (A)
Russell, W. G. (A)
Schwarz, Bertram A. (M)
Shane, William A. (A)
Smith, Arthur (A)
Smith, B. J. (A)
Smith, Benjamin F. (A)
Smith, C. C. (A)
Smith, Victor G. (A)
Smith, William B. (A)
Snell, Henry C. (A)
Stauffer, William J. (A)
Steel, W. Arthur (M)
Stiff, George F. (A)
Swabey, Henry C. (A)
Taber, Harold E. (A)
Thompson, Milton L. (A)
Thomson, John M. (A)
Thorpe, Edgar O. (A)
Tremain, Earnest L. (A)
Underwood, Clifford C. (A)

Van Sickle, Melvin (A)
Waite, Griffin G. (A)
Wallace, I. M. (A)
Walsh, Harold E. (A)
Ward, Charles (A)
Warwood, W. E. (A)
Watson, J. E. (A)
Weber, Rennie I. (A)
Weese, R. (M)
Weir, Harold G. (A)
Whitmore, Walter R. (A)
Whittington, R. Leslie (A)
Wilkinson, Allan E. (A)
Williams, James (A)
Wilson, James C. (A)

QUEBEC

Acton, Edward H. (A)
Andrae, Robert T. (A)
Andresen, Sigurd (A)
Bailey, F. A. A. (A)
Barbour, John H. (A)
Barrow, F. A. (A)
Bird, C. H. R. (A)
Blais, Alphy L. (A)
Cann, John O. G. (F)
Carrick, William E. (A)
Chauvin, Stanley (A)
Clarke, J. L. (A)

QUEBEC (Continued)

Comach, Stanley I. (A)
 Conroy, Joseph M. (A)
 Cooper, Samuel J. (A)
 Desaulniers, Russell R. (A)
 Downs, Walter P. (A)
 East, Lawrence A. W. (A)
 Eve, Harry (A)
 Farmer, Eric W. (A)
 Fenwick, James R. (A)
 Goldin, Hyman C. (A)
 Gowan, Hubert S. (A)
 Higgins, H. H. (A)
 Hodgson, Edward (A)
 Howe, A. E. (A)
 Jaederholm, Henrik W. (A)
 Kniffen, Leslie D. (A)
 Kruming, Adolf O. (A)
 Leonard, Percy A. (A)
 Marceau, Jules P. (J)
 McKay, William (A)
 McNeill, George T. (J)
 McWilliam, Eric A. (A)
 Menard, J. L. (A)
 Messier, Joseph L. (A)
 Miller, S. S. (A)
 Moore, William H. (A)
 Mullin, James W. (M)
 Olive, Gordon W. (A)
 Ouzounian, Haig (A)
 Payne, L. Stanley (M)
 Prinsky, Harold B. (A)
 Ratchford, Wm. J. (A)
 Richardson, J. Stuart (A)
 Ridd, William T. (A)
 Robb, Robert J. (A)
 Robertson, Wm. G. (A)
 Rogers, Harold A. (A)
 Short, Herbert M. (M)
 Smith, Frederick A. (A)
 Soucy, Chester I. (A)
 Spencer, Leonard (M)
 Tanner, Charles J. (A)
 Thompson, John H. (A)
 Tremblay, Joseph (A)
 Vennes, H. J. (M)
 Wade, David (A)
 Wallace, G. A. (A)
 Wallace, O. C. S., Jr. (A)
 Wilson, C. T. R. (A)
 Wilson, Clifford A. (A)

SASKATCHEWAN
 Barbar, Orville B. (J)
 Carter, Reginald F. (A)
 Michalenka, Andrew (A)
 Price, Ernest E. (A)

CANAL ZONE
 Bullock, Gilbert D. (A)
 Campbell, Walter H. (M)
 Fisher, Carroll S. (A)
 Grunman, F. W. (J)
 Hixson, John Pope (A)
 Kosar, William S. (A)
 Young, John W. (A)

CHANNEL ISLANDS
 Bennett, F. T. (A)
 Manning, Wm. M. (A)
 Wright, Herbert (A)

CHILE
 Brito, Alberto R. (M)
 Diamond, Harvey (A)
 Sazie, Enrique (A)
 Vierling, Gustav (A)

CHINA

Chang, Ting Chin (M)
 Chen, C. C. (A)
 Chen, C. Mayo (A)
 Chen, Shujen (A)
 Chen, Ying-Chien (A)
 Chiang, P. C. (A)
 Chien, F. C. (A)
 Chiu, Tsunyi (J)
 Chu, Chih Teih (A)
 Chu, K. T. (A)
 Chu, Yun (J)
 Chung, Chi Fah (A)
 Ede, Frank C. (A)
 Fung, Huo-Siu (J)
 Harmer, Leslie B. (A)
 Harris, Arthur L. (M)
 Hsu, C. L. (J)
 Hsu, Philip H. (A)
 Hwang, Ju-Tsu (J)
 Lee, Shee Mou (A)
 Lo, Tsu Zui (A)
 Mao, C. S. (A)
 Miao, T. V. (J)
 Nee, Sangta (A)
 St. Louis, A. R. (A)
 Seto, Joe N. (A)
 Shen, Pao-Guay (A)
 Shen, S. Z. (A)
 Smith, R. G. (A)
 Tsao, T. C. (A)
 Tsao, Zeuson C. (A)
 Tsia, Hoek (A)
 Wang, Twen-Shang (J)
 Ward, Zangwill (A)
 Wong, S. S. (A)
 Wu, Frank Tin Sik (A)
 Wu, S. W. (A)
 Young, Charles W. (A)
 Zee, Liang (A)

COLOMBIA

Caicedo, A. D. (A)
 Hill, H. F. (A)
 Pedersen, A. A. (A)
 Shire, Leo E. (A)

COSTA RICA

Carazo, Louis A. (A)
 Carranza, Jose J. (M)

CUBA

Gonzales, Jorge L. (A)
 Jones, Frank H. (A)
 Lara, Jose (A)

CZECHOSLOVAKIA

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

DENMARK

Bertzow, Johannes A. (A)
 Bramslev, Gunnar (A)
 Christensen, Jens P. (A)
 Heegaard, F. D. (A)
 Hellstrom, G. (A)
 Jorgensen, Laurits (A)
 Kjeldsen, T. F. (A)
 Pedersen, Martin P. (A)
 Pedersen, Peder Oluf (F)
 Poulsen, Valdemar (F)
 Schou, Carl (A)
 Steffensen, James (A)
 Svenningsen, Karl (A)

EAST AFRICA

Dennis, Frank L. (A)
 Gordinho, T. J. (A)

EGYPT

Debarro, Francis (A)
 Watterson, Harold E. (F)

ENGLAND

BEDFORD

Hodgson, Alan D. (A)

BERKSHIRE

Herbert, P. (A)
 Hill, Ernest N. (A)
 Pound, Ernest J. (A)
 Simmonds, E. J. (M)
 Taylor, Arthur W. (A)
 Tozer, William C. (A)
 Vedy, L. G. (A)
 Weight, H. Aubrey (A)

BUCKINGHAM

Bainbridge-Bell, L. H. (A)
 Diver, Frederick G. (A)
 Herd, James F. (M)
 Stoddart, Joseph A. (A)
 Wilkins, A. F. (A)
 Woodbridge, Frank L. (A)

CAMBRIDGE

Barnes, H. M. (A)
 Ratcliffe, J. A. (M)
 Turner, Laurence B. (A)
 White, F. W. G. (A)

CHESHIRE

Cleator, P. E. (A)
 Flagg, Leonard B. (A)
 Hall, Albert (M)
 Jones, Arthur G. (A)
 Jones, Ernest (A)
 Keegan, William (A)
 Noden, Joseph (A)
 Vernon, Basil H. (A)
 Williams, Cecil G. (A)
 Wright, Sydney R. (M)

CORNWALL

Powditch, H. J. (A)

CUMBERLAND

Elliott, Isaac (A)

DERBY

Franklin, T. Bedford (A)
 Hulme, Arnold B. (A)
 Smith, Harold I. (A)

DEVON

Foord, Henry D. G. (M)
 Maxey, Henry J. (A)
 Smith, James H. (A)
 Wortley-Talbot, John R. (A)

DURHAM

Glover, Harry (A)
 Hall, Norman (A)
 Joice, W. S. (A)

DORSET

Chapman, E. T. (A)
 Harper, Edgar (M)

DORSET (Continued)

Harris, Raymond (A)
 Woodward, Percy J. (M)

ESSEX

Abraham, F. X. J. (A)
 Amey, S. H. (A)
 Bevis, James (A)
 Bradfield, Geoffrey (A)
 Chesterton, Arthur J. (M)
 Ditcham, Wm. T. (M)
 Evans, Edward H. (A)
 Green, Ernest (A)
 Griffiths, Herbert V. (A)
 Harries, John H. O. (A)
 Heightman, D. W. (J)
 Keeling, Charles H. (A)
 Ladner, Alan W. (A)
 Lassman, Henry H. (A)
 Lea, Norman (A)
 Mc Donald George F. H. (A)
 O'Neill, R. F. (A)
 Parkin, Thomas D. (A)
 Payne, Eric A. (A)
 Pipe, Robert E. (A)
 Randall, Marcus C. (A)
 Robb, Frederick G. (A)
 Robertson, N. C. (A)
 Russell, Herbert J. (A)
 Shore, Anak (A)
 Smith, Sidney B. (M)
 Stamford, Norman C. (A)
 Stead, Clifford (A)
 Stockton, S. A. (A)
 Summerfield, Jas. L. (A)
 Thomas, Finion (A)
 Tompsett, F. J. (A)
 Varley, William E. (A)
 White, Herbert G. (A)
 Wilson, William P. (A)
 Woodward, Lewis A. (A)
 Wyborn, R. B. (A)
 Young, Arthur M. (A)

GLOUCESTER

Aldrich, Gordon H. (A)
 Andrews, W. A. (M)
 Angell, Douglas H. (A)
 Bates, Cyril R. (A)
 Brown, William G. (A)
 Courtenay-Price, George (A)
 Healey, Oliver (A)
 Irving, Donald H. (A)
 Mackenzie, D. G. (A)
 Myers, George T. (A)

HAMPSHIRE

Catt, James E. (M)
 Chapman, J. P. J. (A)
 Corney, William D. (A)
 Dockree, George E. (A)
 Kirkman, R. A. (A)
 Miller, Robert F. E. (A)
 Newham, Leonard E. (A)
 Ogg, John George (A)
 Palmer, R. J. (A)
 Rowland, Edgar S. (A)
 Taylor, Alfred O. (A)
 Warner, H. J. (M)
 Watson, Cecil (A)
 Wills, Stanley (A)

HERTFORDSHIRE

Bartlett, A. C. (A)
 Clarke, George E. (A)
 Gausden, P. (A)
 Murphy, Frank (A)
 Reyner, John H. (M)

Richardson, F. C. (A)
 Saltmarsh, Beatrice (A)
 Staesby, Harold (A)
 Towers, Robert (A)

ISLE of WIGHT

Morris, R. (A)

KENT

Ball, George F. (A)
 Bartlett, Wallace A. (A)
 Binyon, Basil (M)
 Burnham, Walter W. (F)
 Mulholland, William (A)
 Partridge, John A. (A)
 Pecorini, Robert R. (M)
 Turle, Edgar H. (M)
 Wicks, Frank W. (A)

LANCASHIRE

Anderson, George (A)
 Ashwin, Cecil W. H. (A)
 Bailey, Walter H. (M)
 Baird, Frederick (A)
 Cohen, Samuel H. (A)
 Coulton, Arthur (A)
 Critchley, Walter H. (A)
 Davy, Francis G. (A)
 Dolovitz, Ronald (A)
 Evans, Alfred (A)
 Evans, Young W. P. (M)
 Gardiner, Wm. J. (A)
 Gorman, Robert (A)
 Stead, Donald (A)
 Harvey, Lionel (M)
 Hodkinson, Henry (A)
 Jackson, Willie (M)
 Jeffery, Jack H. (A)
 Lamb, William H. (A)
 Lewis, Benjamin (A)
 Lycett, Eric L. (A)
 Lyons, C. L. (M)
 Mallinson, William (A)
 McLeod, John S. (A)
 Panagakis, Harry (A)
 Parry, Albert H. (A)
 Percival, William R. (A)
 Rae, William T. (A)
 Salt, William (A)
 Simpson, A. V. (M)
 Smith, John S. (M)
 Storry, Thomas G. (A)
 Wade, Arthur (A)
 Warner, F. E. (A)

LEICESTER

Atkinson, Cyril T. (A)
 Charles, Ernest E. (A)
 Diggles, A. J. (A)

LINCOLN

Clarke, Douglas F. (A)
 Frankis, Ernest E. (A)
 Pales, Frederick A. (A)
 Poppleton, John (A)
 Simons, John L. (A)
 Sparrow, A. W. (A)

LONDON

Albiston, Wm. A. (A)
 Allan, J. T. (A)
 Allinson, Cyril P. (A)
 Amis, Frederick H. (M)
 Ayres, Frederick (A)
 Barker, Percy L. (A)
 Barnard, Roy M. (A)
 Baxter, Henry W. (A)
 Beer, H. G. (A)
 Bewick, W. (A)
 Bird, Sydney S. (A)

Boyd, W. Forbes (A)
 Bruce, James R. (A)
 Bulgin, Arthur F. (M)
 Burgess, A. G. (A)
 Burrows, Francis E. (A)
 Carter, F. C. (A)
 Casperd, Christopher C. (A)
 Clark, Robert C. (A)
 Cohen, Isaac J. (A)
 Cook, Alfred B. (A)
 Coppings, Wm. H. (A)
 Crampton, Wm. J. (M)
 Crawford, Cecil G. (A)
 Dawe, Frank W. (A)
 De Wardt, Robt. G. (M)
 Downing, Geo. E. C. (A)
 Dowsett, Harry M. (M)
 Drinkwater, Eric W. (J)
 Eckersley, P. P. (F)
 Elwell, Cyril F. (F)
 Emerson, R. Waldo (A)
 Emery, E. J. (M)
 Erdman, H. (A)
 Faulkner, Harry (M)
 Fuller, J. Conrad (M)
 Galbraith, R. A. H. (A)
 Galloway, C. Hadfield (A)
 Gambrell, Horace W. (M)
 Gee, Harry T. P. (A)
 Gill, Archibald J. (M)
 Goord, H. V. (A)
 Gracie, John A. (A)
 Graham, C. (A)
 Griffiths, W. H. F. (M)
 Hambling, Arthur W. (A)
 Hamilton, D. (A)
 Hannah, W. J. (A)
 Harris, Percy W. (M)
 Hawkins, John H. (A)
 Henderson, John T. (A)
 Hinderlich, Albert (A)
 Hoar, Harold G. (A)
 Hogben, Bernard T. (A)
 Holzman, Louis (A)
 Horn, C. O. (A)
 Howard, C. A. (A)
 Howard, J. L. (A)
 Hughes, Leslie E. C. (A)
 Hughes, Lionel J. (A)
 Jacobsen, Bent B. (A)
 Jarratt, G. H. (A)
 Jones, Arthur B. (A)
 Kelsey, G. T. (A)
 Kirke, Harold L. (M)
 Klein, Rene H. (M)
 Landale, S. E. A. (A)
 Lee, Albert G. (F)
 Lemon, Cecil G. (A)
 Love, Horace J. (A)
 Lyle, Herbert B. (A)
 Madgwick, G. (M)
 Marconi, Guglielmo (F)
 Marshall, J. A. (A)
 McCallum, C. C. (A)
 McMichael, Leslie (F)
 Megaw, E. C. S. (A)
 Mercer, Charles J. (M)
 Merdler, Lionel R. (A)
 Millard, Alfred W. (A)
 Moore, Eric J. T. (M)
 Morris, Alfred (A)
 Nagase, Harutoshi (A)
 Nancarrow, F. E. (M)
 Ogden, S. (A)
 O'Shaughnessy, J. J. F. (M)
 Parker, A. Raymond (A)

LONDON (Continued)

Petersen, Thos. G. (A)
Phillips, Charles F. (M)
Picken, William J. (A)
Pocock, Hugh S. (M)
Pryor, George E. (A)
Ramirez, E. G. (M)
Rees, H. G. P. (A)
Rhys-Jones, John E. (A)
Rickard, Charles E. (M)
Robinson, F. H. (A)
Rogers, Arthur H. E. (M)
Searle, Reginald F. T. (A)
Shaughnessy, E. H. (M)
Shorter, Donovan E. L. (A)
Slee, John A. (F)
Snook, Edward T. (A)
Starr, Arthur T. (A)
Strong, Charles E. (M)
Summers, R. H. J. (A)
Tanton, John H. (A)
Tingey, Robert (M)
Tomlinson, Frank (A)
Troutbeck, Wilfrid H. (A)
Walmsley, Thomas (M)
Wardle, Paul G. (A)
Warren, A. C. (A)
Webb, James H. (A)
Wilson, Percy (A)
Wood, Robert H. (M)

MIDDLESEX

Appleton, Edward V. (F)
Appleton, Wm. A. (M)
Axten, Bernard J. (A)
Baskett, Frederick J. (A)
Bate, James R. T. (A)
Booth, Charles F. (A)
Brown, Walter J. (M)
Connell, W. H. (A)
Dack, Allan J. S. (A)
Dack, John H. A. (A)
Fayers, Alfred A. (A)
Floyd, William F. (A)
Greig, James (A)
Gurney, Albert A. (A)
Henderson, Francis A. (A)
Holmes, Robert (A)
Howse, H. A. G. (M)
James, William P. (A)
Lane, C. F. (M)
Lawson, C. J. F. (A)
Lea, George (A)
Lince, Rene (A)
Loos, George F. (A)
Montgomery, Alexander W. (M)
Mumford, Albert H. (A)
Nottage, Wm. H. (A)
Oliphant, Wm. D. (A)
Phillips, Maurice M. (A)
Potts, Edward (A)
Spratley, Clifford (A)
Tiltman, Ronald F. (A)
Toombs, Roy (A)
Walker, Harold S. (A)
Wallace, Alex T. (A)
Wicks, Reginald P. (A)

MONMOUTH

Cam, Frank A. (A)

NORFOLK

Bennington, T. W. (A)
Cooper, G. R. (A)

NORTHAMPTON

Calver, Frank N. (M)
Cross, A. (J)

NORTHUMBERLAND

Dunstan, A. S. (A)
Kerrison, Harland R. (A)
Moore, John T. (A)
Nicholson, James K. A. (M)
Robb, William I. (A)
Rush, James (A)

NOTTINGHAM

Kynaston, B. H. J. (A)
Litchfield, Gordon A. (A)
Pearson, Laurence H. (A)
Pinnock, L. W. J. (A)

OXFORD

Moullin, E. B. (M)
Murray, John W. (A)

SOMERSET

Hinks, Geoffrey D. (A)
Ware, William (A)
Wilson, Frank (M)
Young, Alfred W. (A)

STAFFORD

Harvey, Herbert J. (A)
Wroughton, Thos. H. (A)

SUFFOLK

Rayment, K. I. (A)
Townsend, Frank T. G. (M)

SURREY

Agate, Carlton S. (M)
Carpenter, Rupert E. H. (M)
Chandler, Chas. K. (A)
Clear, K. Y. (A)
Cobb, F. Arthur (M)
Coursey, Philip R. (A)
Cox, C. F. (A)
Curtis, Francis C. (A)
Cushion, L. (A)
Danninger, Louis (A)
Dedman, Ernest A. (A)
Dorte, Phillip N. (A)
Dryland, Alan G. (M)
Forbes, F. D. (A)
Hall, Basil (J)
Hall, Roland C. (A)
Henderson, Walter B. (A)
Hermes, Lawrence W. (A)
Holbeach, Wm. M. (A)
Howard, C. G. (A)
Jordan, James R. (A)
Joseph, J. (M)
Lane, C. V. (A)
Lawler, L. A. C. (A)
Mockford, F. S. (A)
Ridgeway, John W. (A)
Shaw, A. C. (M)
Smurtwaite, F. W. (A)
Somerset, E. T. (A)
Thomas, L. H. (A)
Thompson, Alfred E. (M)
Watson, George H. (A)

SUSSEX

Everett, Lionel E. B. (M)
Thorpe, Stewart M. (A)

WARWICK

Adams, Frank S. (A)
Cooper, J. A. (A)
Everest, Augustine R. (A)

Hinton, Norman P. (M)
Jones, Frank E. B. (A)
Kinman, Thos. H. (M)
Lemney, Claude W. (A)
McDonald, Daniel (A)
Owner, John S. (A)
Roberts, R. (A)
Struthers, G. A. (M)
Thomsett, H. S. (A)
Verralls, J. Maynard (A)
Wadsworth, Herbert A. (A)
Woodhead, H. C. (A)

WILTSHIRE

Cooper, W. H. B. (J)
Mustchin, Norman (A)
Wainwright, Albert (A)

WORCESTER

Mansell, Lionel H. (M)

YORKSHIRE

Andrewartha, H. C. (A)
Ault, Harold B. (A)
Bagshaw, Geo. W. (A)
Bever, Anthony J. M. (A)
Booler, Ernest (A)
Brenchley, C. C. (A)
Drake, George P. (A)
Fell, Herbert (A)
Fennessy, John R. (A)
Firth, Roy (A)
Flintham, Herbert (A)
Fox, Paul X. (A)
Glossop, Arthur A. (A)
Hayward, W. R. (A)
Hewetson, Geoffrey B. (J)

Holmes, Cyril T. (A)
Langstaff, Horace (A)
Lawrence, Edward (A)
Mainwaring, Walter (A)
Male, Samuel C. (A)
Pearson, Alfred (A)
Pereira, Francis E. D. (A)
Pickering, Harry (A)
Rapsom, Ernest T. A. (A)
Rayner, Harry (A)
Riddiough, John W. (A)
Ripley, Henry P. (A)
Russell, M. W. G. (M)
Schackleton, Stanley M. (A)
Smith, Harold (A)
Tetley, Robert C. (A)
Trippier, Francis J. (A)
Turvey, Henry C. (A)
Wallace, Richard H. (A)
Wheeler, Chas. H. J. (A)
Wheeler, Edmund F. (A)
Wood, Eric (A)

FEDERATED
MALAY STATES

Cadman, Claude G. (M)
Carson, Andrew H. (A)
Gee, Walter C. (M)
Higgins, Percy V. (A)
MacIntosh, James (A)
Oakes, William G. (A)
Peck, George T. (A)
Singh, Harbaksh (J)
Suarez, Jose B. (A)

FRANCE

Armstrong, L. J. Heaton (A)
Behm, Ludwig, F. (A)
Berche, P. (A)
Bethenod, J. F. J. (A)
Campbell, Howard E. (M)
Chettel, Alexis M. (M)
de Bellescize, Henri J. J. M. (M)
de Bozas, Guy du Bourg (A)
Delbord, Y. L. (A)
Deloraine, F. M. (M)
Ferrie, General (F)
Gavoëret, George (A)
Goyder, C. W. (A)
Gray, Richard E. (A)
Hazzeltine, Louis A. (F)
Higonnet, Rene A. (A)
Hummel, Jean Emile (A)
Kahn, P. O. (A)
Klappenbach, W. (A)
Knight, Sidney G. (A)
Kraemer, G. I. (M)
Leslie, Fred D. (A)
Levy, Lucien (M)
Lush, William G. (M)
McLean, Francis C. (A)
Mirk, D. Blair (A)
Morton, Alfred H. (M)
O'Reilly, C. (A)
Pedersen, Gunnar V. C. (A)
Turpin, Roger (A)
Ullrich, Edward H. (M)
Wallace, Marcel (A)

FRIENDLY
ISLANDS

Land, John R. (M)

GERMANY

Barkhausen, H. (F)
Fassbender, Heinrich (F)
Gothe, Albrecht (A)
Hertweck, C. (A)
Kofes, Albert (M)
Kurlbaum, Georg (A)
Lock, M. J. (A)
Lübcke, Ernst (M)
Meissner, A. (F)
Mögel, Hans I. (M)
Rothe, Horst (M)
Runge, Wilhelm T. (M)
Suadicani, Guenther (M)
von Ardenne, M. (A)
Wagner, Karl W. (F)
Wasservogel, Günther (A)
Zenneck, Jonathan (F)

GREECE

Goumarides, A. D. (A)
Pezopoulos, K. (A)

GUAM

Sutton, Ralph E. (A)
Terhune, J. A. (A)

HAWAII

Almberg, Clarence H. (J)
Armagost, Harold C. (A)
Balch, J. A. (M)
Borthwick, Jas. H. (A)
Branch, L. W. (M)

Clark, George W. (A)
Day, Laurence E. (A)
Eller, Willard H. (A)
Fickas, Merwin J. (A)
Fiechtner, Theo. G. (A)
Finch, James L. (M)
Green, Preston W. (A)
Hill, Otis (A)
Janitschke, E. O. (A)
Kaneko, George T. (A)
Keller, Edward B. (A)
King, Cary J., Jr. (A)
Macartney, A. Roy (A)
Moore, John B. (A)
Muller, John H. (A)
Muller, P. H. (A)
Murai, Fred H. (A)
Ogg, Glenn R. (A)
Pickle, Chesley B. (J)
Schaefer, Carl T. (A)
Shaw, Robert M. (A)
Sherman, Warren K. (A)
Simpson, Robert L. (A)
Thomas, Hubert E. (A)
Walworth, Laurance A.
Wells, W. Bruce (A)
Wilkie, Harry (A)

HOLLAND

Bouman, H. J. J. (A)
Breimer, S. H. (A)
De Graaff, Antonius (A)
de Miranda, J. Rodrigues (A)
Hummeling, William G. A. M. (A)
Langendam, S. G. C. (A)
Moree, W. (A)
Roorda, J., Jr. (A)
Schotel, G. (M)
van der Bilt, C. L. (A)
van der Pol, Balh, Jr. (F)
Westerveld, F. (A)

HUNGARY

Alker, T. F. (M)
Detsky, Charles F. (A)

INDIA

Asithana, Rajendra Prasad (A)
Chapman, Thos. J. (A)
Cornfield, M. (A)
De Burgh, Desmond H. (M)
Dighe, K. S. (A)
Doraswamy, M. N. (A)
Enon, Ernest R. (A)
Ghosh, B. N. (J)
Hawes, R. Nesbit (M)
Hesse, Cecil N. (A)
Kantebet, S. R. (M)
Mohammed, A. (A)
O'Rourke, Sydney P. (A)
Shroff, T. R. (A)
Silver, B. J. (A)
Vasudeva, D. N. (A)
Verman, Lal C. (A)

IRELAND

Edgeworth, Kenneth E. (M)
Jamison, Alexander (A)
Kennedy, M. F. (A)
Kitchen, James P. (A)
Neill, Frank R. (A)
Taggart, David (A)
Waite, D. (A)

IRISH FREE STATE

Dunphy, Thomas O. (A)
Ferguson, John D. (M)
Minter, Robert W. (A)
Walker, Geo. S. D. (A)

ISLE OF MAN

Horne, Tom (A)

ITALY

Bacchini, Cesare (A)
Banti Alessandro (A)
Buttolo, Romeo L. (A)
Ducati, Adriano C. (A)
Guarnieri, Gaetano Monti (A)
Leechi, P. A. (A)
Marino, Algeri (A)
Osiatunsky, L. (M)
Pession, Giuseppe (F)
Ramsay, Frank R. F. (A)
Ruspoli, Edmondo (A)
Venturini, Anthony (A)

JAMAICA

Ratliff, L. G. (A)

JAPAN

Akamatsu, Kaworu (A)
Akutsu, Shinji (A)
Akuzawa, Siro (A)
Amari, S. (A)
Anazawa, Chubei (A)
Arakawa, Daitato (A)
Arisaka, Iwao (A)
Endo, K. (A)
Fujikura, Keijiro (A)
Fujimoto, Tadashi (M)
Fukushima T. (A)
Hagio, N. (A)
Hamada, Shigenori (A)
Hashida, K. (A)
Hashimoto, Chuji (A)
Hashimoto, S. (A)
Hayasi, Tatuo (A)
Hijikata, S. (A)
Hirose, M. (A)
Horiguchi, Jiro (A)
Iimura, H. (A)
Inaoka, Yoshio (A)
Inada, Sannosuke, M.
Inada, Shigetaro (A)
Inanami, Sueo (A)
Ishikawa, S. (A)
Iso, E. (A)
Itow, Yutaka (A)
Iwakata, Hideo (A)
Iyoki, O. (A)
Jimbo, S. (A)
Kamio, K. (A)
Kanayama, Toyosaku (A)
Kanko, Go (A)
Kanno, Gengo (A)
Kato, Kenzo (A)
Kato, Y. (A)
Kawahara, Takewo (A)
Kimpura, Atsushi (A)
Kimura, Rokuro (A)
Kinase, Matsunaga (M)
Kinoshita, Seiji (A)
Kiyota, Y. (A)
Kobayashi, Kichijiro (A)
Kobayashi, M. (A)
Kobayashi, S. (A)
Kohno, S. (A)
Kono, T. (M)
Koshikawa, A. (A)
Koshikawa, Y. (A)

JAPAN (Continued)

Koyama, Kumesosuke (A)
 Kumon, Akitada (A)
 Kuno, T. (A)
 Kuramochi, Shōju (A)
 Kusakari, T. (A)
 Kusama, Kankiti (A)
 Kusunose, Yuziro (A)
 Kuwajima, T. (A)
 Maeda, M. (A)
 Marumo, Noboru (A)
 Matsui, K. (A)
 Matsumura, Sadao (A)
 Mita, S. (A)
 Mitsusishi, Hide K. (A)
 Mitsutake, Katsumi (A)
 Miyaji, Terui (A)
 Miyachi, T. (A)
 Mizuhashi, Tosaku (A)
 Momotsuka, K. (A)
 Mori, Nobumitsu (A)
 Morita, K. (A)
 Morita, M. (A)
 Moriwaiki, Katsumi (A)
 Nagai, Kenzo (A)
 Nagamura, S. (A)
 Nagao, R. (A)
 Nagasaki, K. (A)
 Nagoshi, M. (A)
 Nakagami, Minoru (A)
 Nakagami, T. (M)
 Nakai, Tomozo (A)
 Nakajima, S. (A)
 Namba, Shogo (A)
 Namba, Yasukazu (A)
 Niya, Takuji (A)
 Nishida, S. (A)
 Niwa, Yasujiro (A)
 Ono, Takashi (A)
 Otani, S. (A)
 Otsuka, Y. (A)
 Owada, Mankitsu (A)
 Saito, Masao (A)
 Saitow, Kenji (A)
 Sakai, Sadao (A)
 Sasaki, Tei (A)
 Sasaki, Toshiro (A)
 Satoh, Hajime (A)
 Sayeki, Mitsuru (F)
 Shiga, T. (A)
 Shima, Shigeo (A)
 Shimayama, Tsuruo (A)
 Shinohara, Kiyotada (A)
 Shoda, Masaru (A)
 Shuzi, Saburo (A)
 Simbōri, M. (A)
 So, M. (M)
 So, Manabu (A)
 Suga, Y. (A)
 Sugi, Chohsuke (A)
 Sugiyama, E. (A)
 Sumi, M. (A)
 Suzuka, M. (A)
 Suzuki, Hisao (A)
 Suzuki, T. (A)
 Taguchi, Minoru (A)
 Takamura, S. (A)
 Takase, J. Y. (A)
 Takaya, Michihiro (A)
 Takebayashi, K. (A)
 Takeuchi, H. (A)
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 Yamaguchi, Usaburo (A)
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 Yokoyama, Tetsumi (A)
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 Yoshitishi, Tanabe (A)

JAVA

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 Verdam, Nicholas H. (M)

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 Tuck, H. P. (A)

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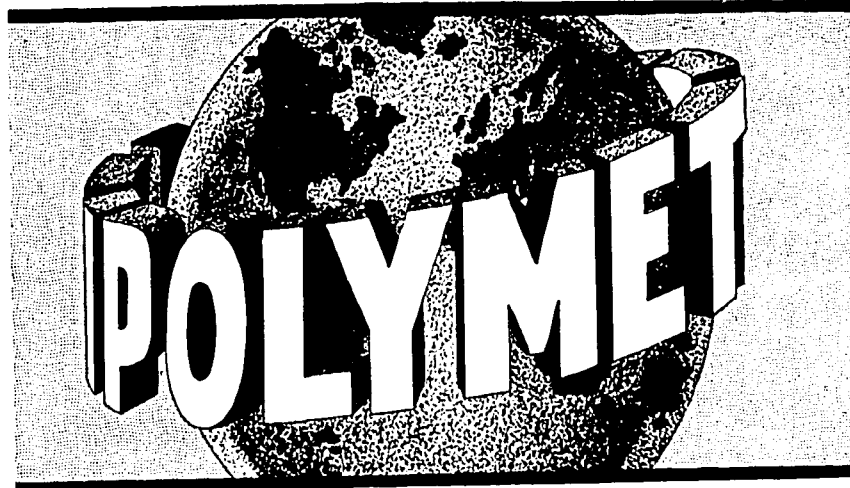
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WALES

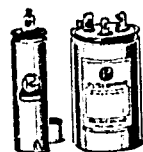
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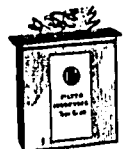
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World-known and World-accepted



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- Electrolytic
- Mica



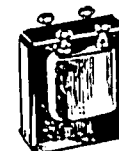
Resistors

Volume Controls



Transformers

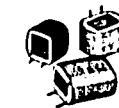
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Coil Windings

Both manufacturers' and service requirements are assured prompt attention.

Catalog on request.



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World's Largest Manufacturers of Radio Essentials

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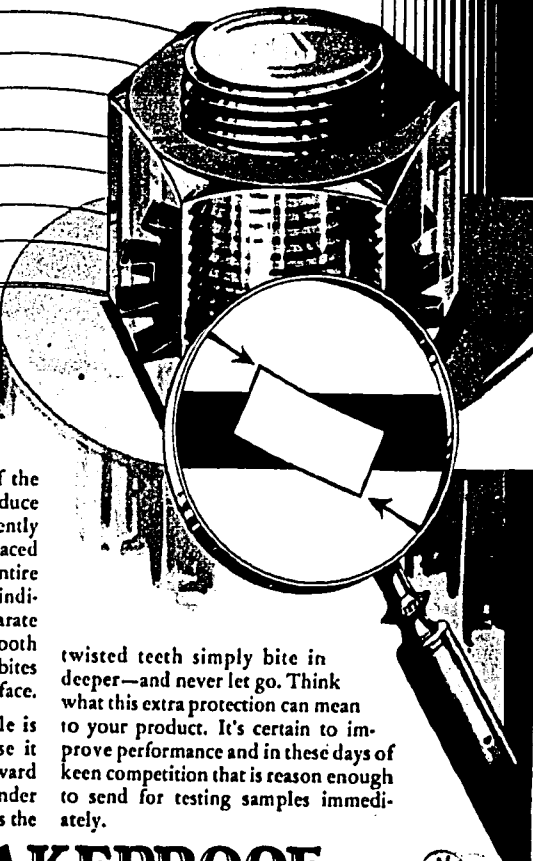
Sales Representatives in all leading cities of the United States and in all principal countries of the world.



Special sales department for export, located at the address above, is prepared to cooperate closely with overseas manufacturers for their parts requirements.

SHAKEPROOF

Multiple
Locking
Defeats
Vibration



THE patented twisted teeth of the Shakeproof Lock Washer produce a locking force that assures permanently tight connections. These teeth, spaced at regular intervals around the entire circumference of the washer, act individually to form a series of separate locks. And what's more—each tooth is a double action lock because it bites into both the nut and the work surface.

This Multiple Locking principle is vibration's greatest enemy because it will successfully resist any backward movement of the nut and even under the most intense strains and stresses the

twisted teeth simply bite in deeper—and never let go. Think what this extra protection can mean to your product. It's certain to improve performance and in these days of keen competition that is reason enough to send for testing samples immediately.

U. S. Patents:
1,419,564
1,604,122
1,697,954
1,782,387

Other patents pending.

Foreign patents.

SHAKEPROOF
Lock Washer Company

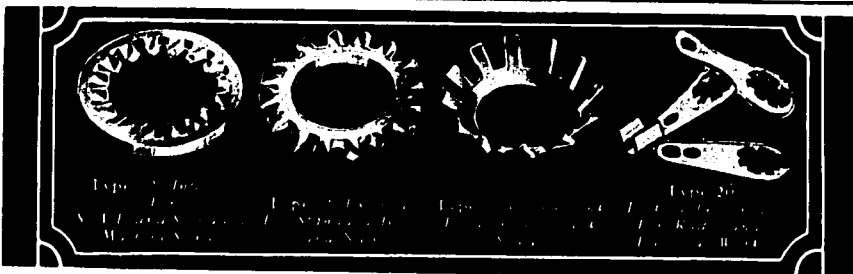
{Division of Illinois Tool Works}

2543 N. Keeler Ave.

Chicago, Ill.



"It's the
Twisted
Teeth
that LOCK!"

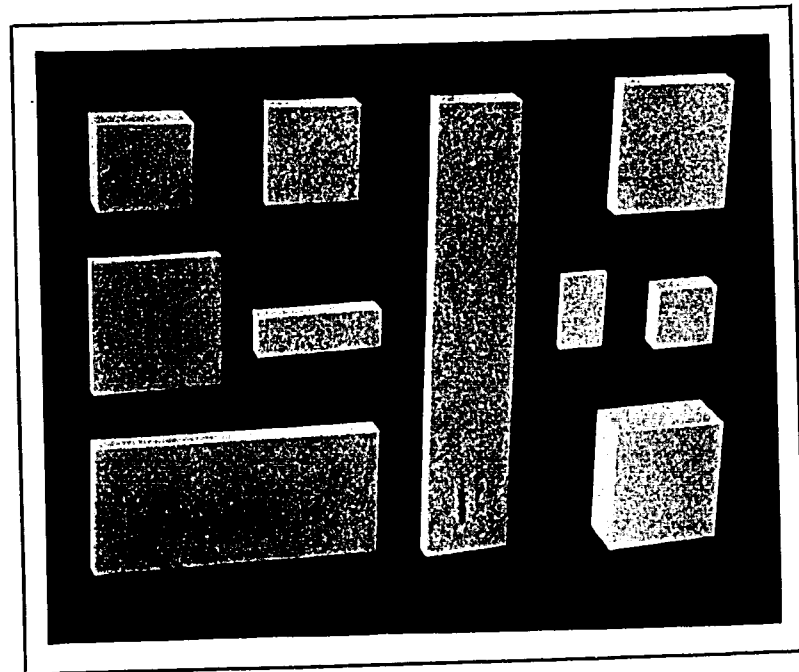


Shakeproof representatives are located in the following cities

New York City	Philadelphia	Boston	Pittsburgh	Schenectady	Cleveland
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PREMIER CRYSTAL

Are Dependable for Quality,
Output, and Performance



Finished CRYSTALS of all descriptions

CRYSTAL BARS, PLATES and BLANKS ground to any specifications

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All PREMIER PRODUCTS are made from finest quality selected Brazilian quartz

Your inquiries solicited—Prompt service

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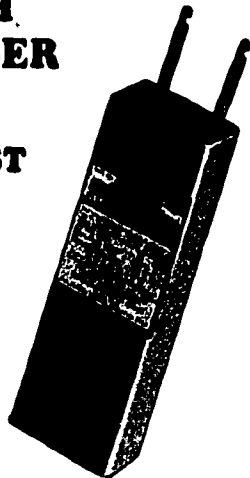
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AEROVOX HI-FARAD DRY ELECTROLYTIC CONDENSER

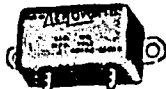
**THE MODERN HIGH
CAPACITY CONDENSER
500 VOLTS PEAK
LONG LIFE • LOW COST**



The advanced processes and features in design, combined with the special electrolyte employed in Hi-Farad DRY Electrolytic Condensers insure efficient and reliable performance in all modern filter and bypass circuits. Hi-Farad condensers are made in a wide variety of types, sizes, capacities and voltage characteristics to meet various requirements.



AN AEROVOX CONDENSER AND RESISTOR FOR EVERY USE



METAL CASE
CONDENSERS

The AeroVox line includes the most complete line of condensers and resistors in the radio and electrical industries. No matter what your requirements are for fixed and tapped condensers or resistors, you are sure to find AeroVox units suited to your needs. In addition, we are equipped to supply special types and sizes of condensers and resistors to meet manufacturers individual requirements.



CARBON
RESISTORS



CARTRIDGE
CONDENSERS



PYROHM
RESISTORS



MOULDED BAKELITE
MICA CONDENSERS

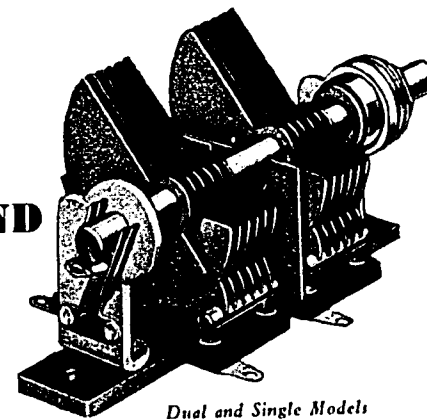
Write for new 1932 catalog. Also ask to receive the AeroVox Research Worker, a monthly periodical which will be helpful and interesting to you.

AEROVOX WIRELESS CORP.

70 Washington Street, Brooklyn, N. Y.

IV

The Perfected
**HAMMARLUND
MIDGET
CONDENSER**
Resists Vibration!



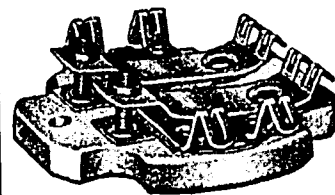
Dual and Single Models

THE Hammarlund Midget Condenser is ideal for airplane or automobile receivers, where the utmost reliability, compactness and immunity from vibration are essential.

High capacity and wide-range—20 to 325 mmf. per section. Soldered brass plates, rugged frame, accurately fitted bearings, double four-point bronze wiping contact firmly rivetted against vibration. Isolantite insulation.

Dual and single unit models. Straight line or "Midline" tuning curve. Baseboard or one-hole mounting.

Ideal for tuning Short-Wave Receivers.



For Precise Tuning of
**INTERMEDIATE
TRANSFORMERS**

Specially tested isolantite base mounts inside transformer shield.

Self-aligning phosphor-bronze adjustable spring plates, double rivetted. Selected mica insulation.

Proved design—will not change in resistance or capacity from humidity, temperature or vibration.

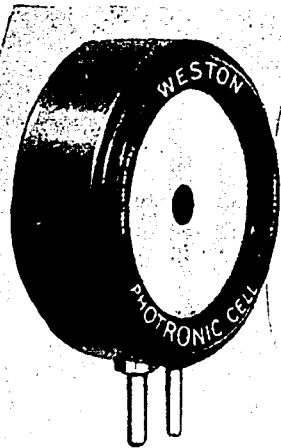
Three ranges in single or double models—10 to 70 mmf.—70 to 140 mmf.—140 to 220 mmf.

Mail coupon for sample and quotations

For Better Radio
Hammarlund
PRECISION
PRODUCTS

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Please send us sample of Intermediate Fre-
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Address.....
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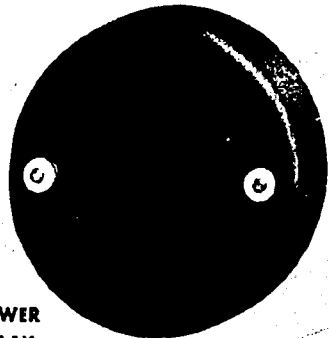
V



PHOTRONIC CELL



SENSITIVE RELAY



POWER RELAY

now
a Complete
PHOTO-ELECTRIC RELAY

at a New

LOW COST

Now you can experiment with light sensitive cells—make them work at a fraction of previous costs. The new Weston Photronic Cell uses no battery, no amplifier. It operates relays directly. Highly sensitive, its current output is about 1.4 micro-amperes per foot-candle. No dark current.

The Photronic Cell has unlimited life—no deterioration, no replacement. A marked advance over previous standards.

For the experimenter, Weston recommends its Model 601 Photronic Relay. It controls 100 watts. It consists of a Photronic Cell, a Model 634 Weston Miniature Relay, and a Power Relay. Used with dry cells to actuate power relay. Model 601 Photronic Relay is a complete operating unit, permitting hundreds of interesting and practical experiments.

WRITE TODAY for FREE Booklet showing ten Photronic Relay experiments. Wiring diagrams included.

WESTON

ELECTRICAL INSTRUMENT CORPORATION

589 FRELINGHUYSEN AVENUE NEWARK, N. J.

**MERSHONS
MUST BE BETTER**

BECAUSE MORE
FINE RADIO SETS
ARE EQUIPPED
WITH MERSHON
ELECTROLYTIC
CONDENSERS THAN
ANY OTHER KIND

Magnavox Engineers welcome consultation with
Radio Manufacturers

Magnavox Company Ltd.

General Offices and Factory:
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The Magnavox Company
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Magnavox (Great Britain) Ltd.
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DeJur-Amsco

FINE PRODUCTS FOR TEN YEARS

For ten years this organization has held a preeminent position in the radio industry as a parts manufacturer. Our customers are located throughout the civilized world. Because of our long and varied experience and the stability of our organization, it is our belief we are in a better position to meet the requirements of set makers than any other manufacturer in the field.

DIALS

Our dials, friction and direct drive and full and sector vision, meet all electrical and eye value requirements of the modern receiver. Special high ratio dials for short wave work.

VARITORS

Small semi-fixed condensers that answer several requirements in the modern receiver.

ESCUTCHEONS

DeJur-Amsco Escutcheons are accessories that contribute the final touch of beauty to the modern receiver.

PILOT LIGHTS

One of the small but nevertheless fundamental parts of the modern receiver that measures up to DeJur-Amsco's requirements for electrical efficiency.

POWER RHEOSTATS

For heavy duty work in both the radio and electronic fields, manufacturers find that DeJur-Amsco Power Rheostats meet their most exacting requirements.

TUNING CONDENSERS

Our tuning condensers are highly efficient and are made in a variety of electrical and mechanical designs. Single and multiple gangs—1 to 5. Special condensers for short wave receivers.

OSCILLATOR TRACKING CONDENSERS

DeJur-Amsco special Oscillator Tracking Condensers simplify single control superheterodyne design and eliminate the expensive and unsatisfactory padding requirements.

Write for catalog illustrating and describing the complete line of DeJur-Amsco radio parts and accessories.

DeJur-Amsco CORPORATION
95 MORTON ST., NEW YORK CITY

The Institute of Radio Engineers

Incorporated

33 West 39th Street, New York, N. Y.

APPLICATION FOR ASSOCIATE MEMBERSHIP

(Application forms for other grades of membership are obtainable from the Institute)

To the Board of Direction

Gentlemen:

I hereby make application for Associate membership in the Institute of Radio Engineers on the basis of my training and professional experience given herewith, and refer to the members named below who are personally familiar with my work.

I certify that the statements made in the record of my training and professional experience are correct, and agree if elected, that I will be governed by the constitution of the Institute as long as I continue a member. Furthermore I agree to promote the objects of the Institute so far as shall be in my power, and if my membership shall be discontinued will return my membership badge.

.....
(Sign with pen)

.....
(Address for mail)

.....
(Date)

.....
(City and State)

References:

(Signature of references not required here)

Mr. Mr.

Address Address

City and State City and State

Mr.

Address

City and State

The following extracts from the Constitution govern applications for admission to the Institute in the Associate grade:

ARTICLE II—MEMBERSHIP

Sec. 1: The membership of the Institute shall consist of: * * * (c) Associates, who shall be entitled to all the rights and privileges of the Institute except the right to hold any elective office specified in Article V. * * *

Sec. 4: An Associate shall be not less than twenty-one years of age and shall be a person who is interested in and connected with the study or application of radio science or the radio arts.

ARTICLE III—ADMISSION AND EXPULSIONS

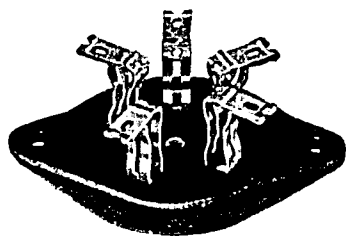
Sec. 2: * * * Applicants shall give references to members of the Institute as follows: * * * for the grade of Associate, to three Fellows, Members, or Associates; * * * Each application for admission * * * shall embody a full record of the general technical education of the applicant and of his professional career.

ENTRANCE FEE SHOULD ACCOMPANY APPLICATION

THE CRC SOCKET LINE Includes

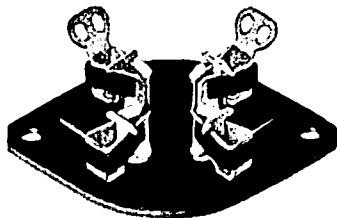
THE "500" SERIES—

For extremely economical production—unique design permits almost unlimited size and shape possibilities with acceptable electrical characteristics.



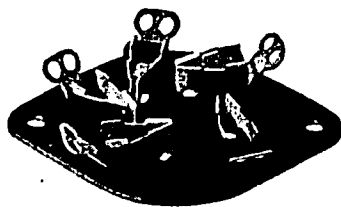
THE "600" SERIES—

The quality socket of the CRC line—unusually rugged, reinforced contacts providing accessibility for fast and accurate production—mechanically and electrically correct.



THE "800" SERIES—

providing the same kind and amount of spring reinforced contact as the 600 series and with the same mechanical and electrical correctness, all in a more economical form.



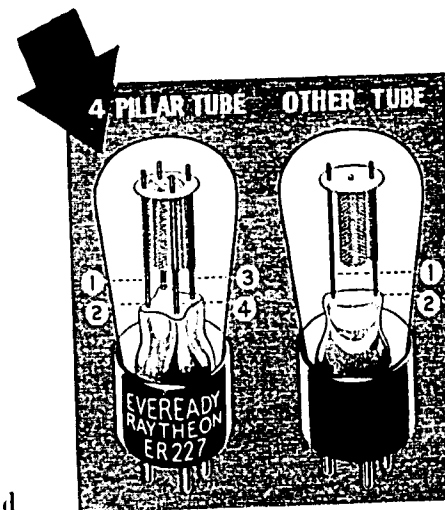
SPECIAL DESIGNS—

Whether your problem calls for mogul sockets, special contacts, odd sizes, shapes and terminal arrangements or for the creation of an entirely new idea CRC will solve it.

CENTRAL RADIO CORPORATION
BELOIT, WISCONSIN

PRECISION ENGINEERING

*What it Means
in Radio Tubes*



THE MODERN highly sensitive and selective radio receiver requires, for maximum performance, tubes having the following qualifications:

1. Standard electrical characteristics.
2. Uniformly good Mutual Conductance or amplifying ability.
3. Uniformly good undistorted power output.
4. Standard and uniform input, inter-electrode and output capacities.
5. Freedom from AC hum.
6. Freedom from microphonic and noise tendencies.
7. Very low gas, grid emission and leakage currents under normal operating conditions.
8. Uniformly defined Mutual Conductance—control grid characteristics.
9. Uniform Plate current cut-off.
10. Good Mutual Conductance—Life characteristics.
11. Good mechanical strength in tube structure.

Such tubes are the result of constant research and development, painstaking inspection and complete control during manufacture and careful inspection and test before shipment.

However, much of this precision engineering may go for naught, if the tube structure is not sufficiently rugged to withstand the jars and vibration caused by shipment and operation.

In order to preserve the precision designed and built into the tube, all Eveready Raytheon tubes employ the well-known patented 4-Pillar construction shown in the illustration.

For further information on Eveready Raytheon 4-Pillar radio tubes, please write the nearest Division Office.

**EVEREADY
RAYTHEON**

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NATIONAL CARBON COMPANY, Inc.

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Unit of
Union Carbide and **UCC** Carbon Corporation

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TRANSLATING Theory into Practice

THE Scovill Manufacturing Company is an organization with unusual ability to take paper plans and interpret them into practical products. Radio manufacturers have long found us successful in cooperating on their developments and inventions . . . in producing according to their ideas anything from a simple screw to a complete radio condenser.

Scovill is pre-eminently fitted to perform these services for the radio industry by virtue of its unusual facilities. A tremendous

plant such as ours can achieve quantity output without sacrificing quality. An order can be completed on short notice without lowering standards of precision. We have only to point to our record of past accomplishments as an indication of what we can do.

It is very probable that you would benefit by turning over some of your production problems to us. We should be glad to show you how we can help you simplify operations, cut costs, and improve the quality of your product.

Scovill



Scovill Manufacturing Company
Waterbury, Connecticut

Boston Providence New York Philadelphia Atlanta
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San Francisco Los Angeles in Europe: The Hague, Holland

RADIO ENGINEERS

REALIZE AND APPRECIATE QUALITY AND PRECISION

The Gilby Wire Company has been able to keep abreast on new developments due to its policy of engineering methods applied to manufacture. Precision and highest quality is the result.

Existing trade conditions have never altered "GW" Quality. Look for the "GW" trade mark. It's your assurance of the finest wire that can be drawn. "GW" will meet the strictest specifications.

You can obtain the economies and results of years of developments in metallurgy and engineering practice by using the products and technical facilities of the Gilby Wire Company.

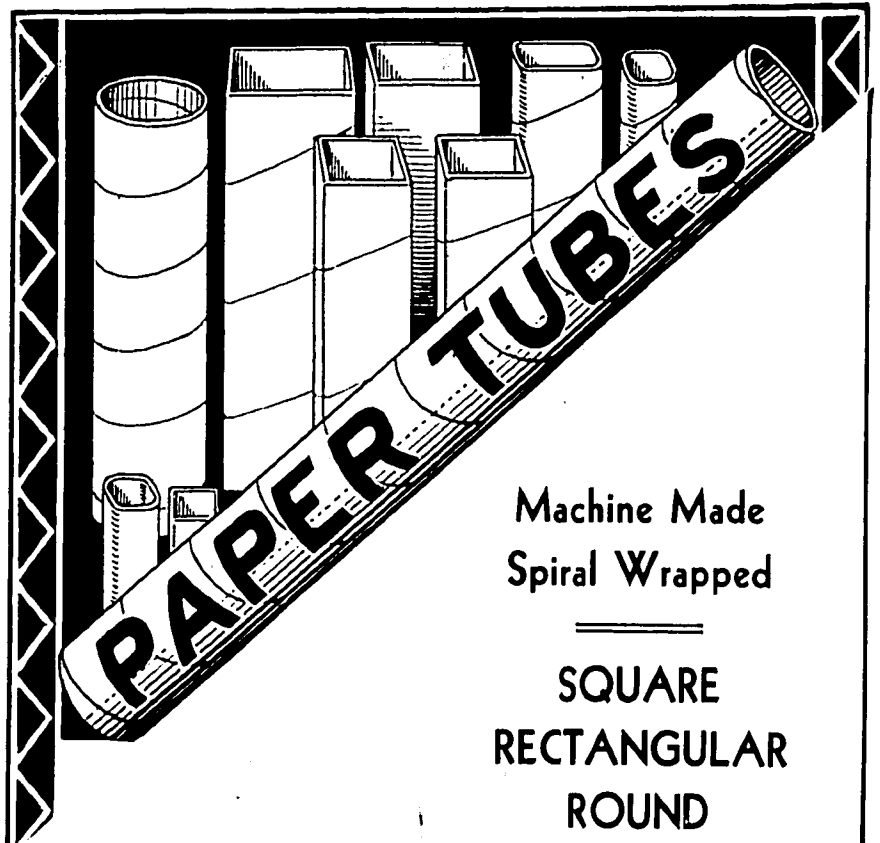
Manufacturing

RADIO TUBE FILA-
MENT
GRID WIRE
PLATE MATERIALS
CARBONIZE NICKEL
RESISTANCE WIRE
TOPHET A
TOPHET C
CUPRON
MANGANIN
NICKEL WIRE & SHEET
ENAMELED
SILK & COTTON
COVERED

GILBY WIRE COMPANY

Wilbur B. Driver, President

NEWARK, NEW JERSEY



Machine Made
Spiral Wrapped

SQUARE
RECTANGULAR
ROUND

STRONG-RIGID-EXACT

THIS tubing is built up layer by layer, with each lamination securely cemented to the next. It is so wrapped to give side walls greatest possible strength.

The paper (or fibre) stock used is manufactured under a process during which magnetic extractors remove all metallic matter. Likewise, the cement-

ing materials are carefully selected and tested for winding requirements.

High dielectric test, rigidity and freedom from blisters are other features of this tubing.

Sizes—from $\frac{1}{4}$ " to $2\frac{3}{4}$ " ID—square or round corners, wall thickness required.

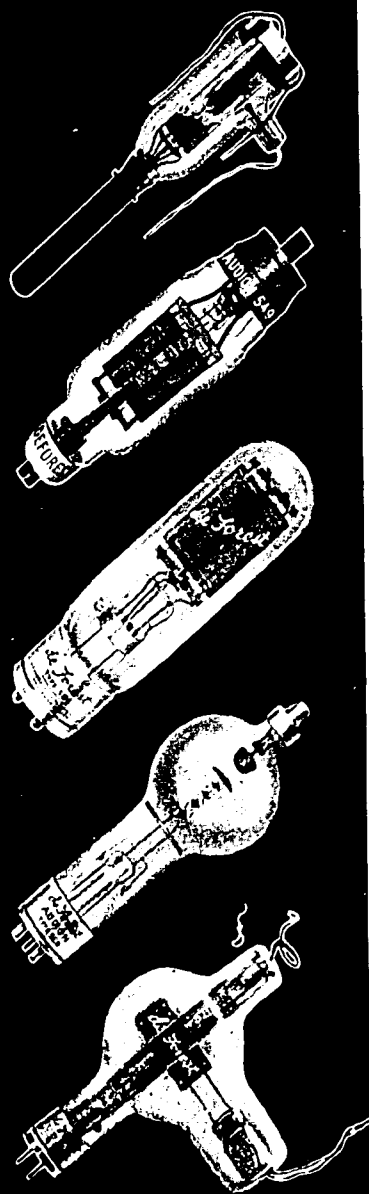
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