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Institute *of* Radio Engineers 1942 YEARBOOK

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Appleton, E. V.	1932		1932	
Armstrong, E. H.	1916-19; 1921; 1936-38			
*Austin, L. W.	1914-17	1914		
Bailey, Austin	1940-42			
Baker, W. R. G.	1940			
Ballantine, Stuart	1935-37	1935		
Barkhausen, Heinrich	1935		1935	
Batcheller, Arthur	1928-32; 1934-36			
Batsel, M. C.	1933			
Bennett, E. M.	1923-25			
Beverage, H. H.	1936-39	1937		
Bown, Ralph	1926-29; 1937-39	1927	1926	
Brown, J. E.	1938			
*Bullard, W. H. G.	1916-1921			
Cady, W. G.	1928-29; 1932-34	1932		Editor, 1929
Caldwell, O. H.	1932-35			
Chaffee, E. L.	1922		1922	
Chamberlain, A. B.	1941-42			
Chambers, C. C.	1942			
Clark, G. H.				Assoc. Editor, 1914
Clayton, J. M.	1928-29			Assist. Sec'y, 1927-28 Secretary, 1928-29
Coggeshall, I. S.	1941-42			
Colpits, E. H.	1921-23			
*Conrad, Frank	1927			
Cosentino, A. T.	1941		1941	
Craven, T. A. M.	1937			Assist. Sec'y, 1936-42
Crawford, J. D.				
Cunningham, F. W.	1938-40			
Cutting, R. F.	1921-24	1922	1921	
Davis, G. S.	1915; 1917-19			
de Forest, Lee	1930-32	1930		
Dellinger, J. H.	1924-31	1925	1924	
Dudley, B.				Assist. Sec'y, 1930-31 Treasurer, 1927-40
Eastham, Melville	1922-41			
Eckersley, P. P.	1937		1937	
Edwards, C. P.	1931		1931	
Espenschied, Lloyd	1912-13; 1915-26; 1931			
Everitt, W. L.	1942			
Fisk, E. T.	1938		1938	
Friis, H. T.	1941-42			
Fuller, L. F.	1928			
Goldsmith, Alfred N.	1912-42	1928		Sec'y, 1918-27 Editor, 1913-28 1930-42
Graham, Virgil M.	1935-41			
*Grebe, A. H.	1924-26; 1928			
Hackbush, R. A.	1938			
Hammond, J. H., Jr.	1912; 1914			Treasurer, 1914
Hanson, O. B.	1938-42			
Hazeltine, Alan	1923-27; 1936-39	1936		
Heising, R. A.	1927-30; 1933-35; 1939-41	1939		
Hill, Guy	1914-16; 1918-20			

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Houck, H. W.	1931-32			Treas., 1915-16; 1918-27
*Hubley, Warren	1915-16; 1918-27			
Hull, L. M.	1929-35	1933		
Jett, E. K.	1938			
Jansky, C. M., Jr.	1929-42	1934		
Johnson, J. K.	1942			
Jolliffe, C. B.	1936-37			
Kaar, I. J.	1939			
*Kennelly, A. E.	1916-18	1916		
Kolster, F. A.	1933-35			Treasurer, 1917
Krumm, L. R.	1917; 1921			Assist. Sec'y, 1914
Langmuir, Irving	1923-25	1923		
Langley, R. H.			1930	
Lee, A. G.	1930			
Lewis, G. H.	1918-19; 1926; 1935			
Llewellyn, F. B.	1939-42	1931		
Manson, R. H.	1927-33	1912	1913	
Marriott, R. H.	1912-16; 1920-22; 1926-32	1926	1925	
McNicol, Donald	1919-28		1929	
Meissner, Alexander	1929			Assoc. Editor, 1926-27
Metcalf, G. R.		1924	1923	
*Morecroft, J. H.	1922-26			
Murray, A. F.	1936-39			
Nelson, E. L.	1932-36			
Nichols, H. W.	1924-25			
*Pedersen, P. O.	1939		1939	
Pickard, G. W.	1912-15	1913		
Pierce, G. W.	1915-21	1918-19	1915	
Porter, C. J.				Assist. Sec'y, 1928
Poulsen, Valdemar	1936		1936	
Pratt, Haraden	1935-42	1938		Treasurer, 1941-42
*Pupin, M. I.	1917-19	1917		
Reoch, A. E.	1925-27			
Rush, W. A.	1942		1942	Sec'y, 1915-17
Sarnoff, David	1915-20			Sec'y, 1913-14
Shute, E. R.	1933-34			
Simon, E. J.	1912-15			
*Squier, G. O.	1918-22			
Stone, J. S.	1912; 1914-19	1915	1914	
Taylor, A. H.	1929-31	1929		
Terman, F. E.	1940-42	1941	1940	
Thompson, B. J.	1937-42			Assist. Treasurer, 1914
Trapnell, T. T.				
Turner, H. M.	1933-42			
van der Pol, Balth.	1934		1934	
Van Dyck, A. F.	1930-35; 1939-42	1942		
Weagant, R. A.	1912; 1914-17			
Westman, H. P.	1930-42			Assist. Sec'y, 1929 Sec'y, 1930-42
Wheeler, H. A.	1934; 1940-42			
Wheeler, L. P.	1940-42			
Whittemore, L. E.	1926-29; 1935-37		1928	
Wilson, William	1932-36			
Zenneck, Jonathan	1933		1933	

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Committee on Applied Physics.....	WILLIAM WILSON
Council of the American Association for the Advancement of Science.....	J. C. JENSEN
Engineering Index National Committee.....	MELVILLE EASTHAM
Joint Co-ordination Committee on Radio Reception of the N.E.L.A., N.E.M.A., and R.M.A.	C. E. BRIGHAM
National Advisory Council on Radio in Education, Committee on Engineering Developments.....	LLOYD ESPENSHIED, ALFRED N. GOLDSMITH, C. W. HORN, L. M. HULL, AND R. H. MARRIOTT
National Television Systems Committee	ALFRED N. GOLDSMITH (H. A. WHEELER, alternate)
Panel 2	ALFRED N. GOLDSMITH, chairman
Panel 4	E. G. PORTS
Panel 8.....	KNOX MCILWAIN
New York City Advisory Board on Industrial Education.....	H. P. WESTMAN
Planning Committee, National Conference on Educational Broadcasting, American Council on Education.....	C. M. JANSKY, JR., C. B. JOLLIFFE, AND E. L. NELSON
U.R.S.I. (International Scientific Radio Union) Executive Committee	C. M. JANSKY, JR.
U. S. National Committee, Advisers on Electrical Measuring Instruments.....	MELVILLE EASTHAM AND HAROLD OLESEN
U. S. National Committee, Advisers on Symbols	L. E. WHITTEMORE AND J. W. HORTON

AMERICAN STANDARDS ASSOCIATION

Standards Council.....	ALFRED N. GOLDSMITH (H. P. WESTMAN, alternate)
Board of Examination	H. P. WESTMAN, chairman
Electrical Standards Committee.....	H. M. TURNER (H. P. WESTMAN, alternate)
Sectional Committee on Acoustical Measurements and Terminology.....	E. D. COOK AND H. F. OLSON
Sectional Committee on Definitions of Electrical Terms.....	HARADEN PRATT
Subcommittee on Vacuum Tubes.....	B. E. SHACKELFORD
Sectional Committee on Electric and Magnetic Magnitudes and Units.....	J. H. DELLINGER
Sectional Committee on Electrical Installations on Shipboard.....	I. F. BYRNES AND V. R. RUSS
Sectional Committee on Electrical Measuring Instruments.....	WILSON AULL
Sectional Committee on Graphical Symbols and Abbreviations for Use on Drawings.....	AUSTIN BAILEY (H. P. WESTMAN, alternate)
Subcommittee on Communication Symbols.....	H. M. TURNER
Sectional Committee on Letter Symbols and Abbreviations for Science and Engineering.....	H. M. TURNER
Subcommittee on Letter Symbols for Radio Use.....	H. M. TURNER
Sectional Committee on National Electrical Safety Code, Subcommittee on Article 810, Radio Broadcast Reception Equipment.....	E. T. DICKEY (VIRGIL M. GRAHAM, alternate)
Sectional Committee on Preferred Numbers.....	A. F. VAN DYCK
Sectional Committee on Radio	ALFRED N. GOLDSMITH, chairman; HARADEN PRATT, AND L. E. WHITTEMORE
Sectional Committee on Radio-Electrical Co-ordination.....	J. V. L. HOGAN, C. M. JANSKY, JR., AND L. E. WHITTEMORE
Sectional Committee on Specifications for Dry Cells and Batteries.....	H. M. TURNER
Sectional Committee on Standards for Drawings and Drafting Room Practices.....	AUSTIN BAILEY
Sectional Committee on Vacuum Tubes for Industrial Purposes.....	B. E. SHACKELFORD

GENERAL INFORMATION

HISTORY

On May 13, 1912, the Institute of Radio Engineers was formed through the merging of two organizations active in the technical radio field. One of these was the Wireless Institute, the headquarters of which were in New York City and the other, which was located in Boston, was known as the Society of Wireless Telegraph Engineers. The former organization had a membership of fourteen at the start of 1909 and twenty-seven on January 1, 1912. The Society of Wireless Telegraph Engineers had eleven members on the first day of 1907 and forty-three on January 1, 1912. At the time of its foundation, the Institute of Radio Engineers had fewer than fifty 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 Fransworth, Sidney L. Williams, Robert H. Marriott, G. W. Pickard, Harry Shoemaker, and Eugene M. Thurston. The consolidation of these two societies and the initial work of organizing the Institute of Radio Engineers were done by Alfred N. Goldsmith, J. V. L. Hogan, and R. H. Marriott.

GENERAL

The object of The Institute of Radio Engineers is to advance the theory and practice of radio and allied branches of engineering. It includes among its members those who have played prominent parts in the development of radio in the United States as well as many noted radio engineers and scientists in other countries.

Membership in the Institute is strictly personal and several grades have been established. The requirements for admission to these grades are contained in the Institute's Constitution, and the eligibility of the applicant is determined by the Board of Directors. In many cases, the Admissions Committee recommends a course of action to the Board of Directors.

SERVICES

An important service which the Institute renders its membership is the publication of papers. In addition, many papers are presented at meetings where informal discussions may be effective in increasing the knowledge of those present. Standardization reports provide a mechanism for establishing recognized meanings of technical terms and methods of testing and rating equipment. By the awarding of honors and prizes, the publication of papers describing important developments is encouraged.

PUBLICATIONS

The PROCEEDINGS of the I.R.E. is the name of the official publication. In it are published all the papers, discussions, and communications which have been submitted for publication and approved by our Papers Committee and Board of Editors. The first issue was published in 1913 and the first three volumes were comprised of four issues each. Volume 4 through Volume 14 contain six numbers each and all the succeeding volumes are composed of twelve issues each. Prior to 1939 the publication was titled The PROCEEDINGS of the Institute of Radio Engineers and its size was six inches by nine inches. In 1939 it was enlarged to eight and a half inches by eleven inches and its name shortened. Over 2000 papers are contained in the twenty-four volumes which were published up to the end of 1941. Of these approximately a quarter were published during the last five years. The PROCEEDINGS is mailed without additional charge to all Institute members. The subscription price to nonmembers is \$10.00 per year.

Standardization reports have been issued since 1913. The early reports were confined to the definition of technical terms and presentation of standard graphical symbols. The more recent reports have gone considerably beyond this scope and include methods of testing and rating both equipment and antennas. Letter symbols for mathematical and other notation are also included. The most recent reports issued are dated 1938 and are under the following titles: Electroacoustics, Electronics, Radio Receivers, and Transmitters and Antennas. Additional reports on Facsimile, Frequency Modulation, and Radio Wave Propagation are scheduled for distribution during 1942.

Yearbooks have been issued at irregular intervals. The first was published in 1914, and the second in 1916. The next seven were published annually between 1926 and 1932. This 1942 issue is the eleventh to be published by the Institute.

AWARDS

Each year the Institute recognizes outstanding achievements in the radio communication field by the bestowal of two awards. One recognizes, in general, an extensive service over a period of years while the other is usually conferred for a more recent contribution.

Medal of Honor

The Institute Medal of Honor is given in recognition of distinguished service in radio communication. It is awarded to one who has been responsible for an important advance in the science or art of radio communication. This advancement may be a single development or it may be a series of developments which in the aggregate have resulted in substantial improvements in radio communication.

The achievement may be a patented or unpatented invention. It may also be a theoretical analysis of a hitherto unexplained phenomenon of distinct importance to the radio art, though the application thereof need not be immediate. Preference will be given analyses which are directly applicable to the art.

Further, the advance may be a new system of traffic regulation or control, a new system of administration of a radio company or the radio communication service for military, transportation, or other organizations; a legislative program beneficial to the radio art or any portion of the operating or regulating features of the art.

The achievement for which this award is granted preferably must be completely and adequately described in a scientific or engineering publication of recognized standing and should have been actually applied to radio communication problems. A development may be of recent origin or otherwise and a series of developments may extend over a long period of years. Preference will be given to widely used and generally useful inventions. The recipient of this award shall be named by the Board of Directors which will normally receive recommendations from the Awards Committee.

Recipients of Medal of Honor

E. H. Armstrong 1917	P. O. Pedersen 1930
E. F. W. Alexanderson	G. A. Ferrié 1931
.....1919	A. E. Kennelly 1932
G. Marconi 1920	J. A. Fleming 1933
R. A. Fessenden 1921	S. C. Hooper 1934
Lee de Forest 1922	Balth. van der Pol ..1935
John Stone Stone 1923	G. A. Campbell 1936
M. I. Pupin 1924	Melville Eastham 1937
G. W. Pickard 1926	J. H. Dellinger 1938
L. W. Austin 1927	A. G. Lee 1939
Jonathan Zenneck ...1928	Lloyd Espenschied ...1940
G. W. Pierce 1929	Alfred N. Goldsmith .1941
A. H. Taylor.....1942	

Morris Liebmann Memorial Prize

The Morris Liebmann Memorial Prize, to perpetuate the memory of the late Colonel Morris N. Liebmann, is made possible through the generosity of E. J. Simon, a Fellow of the Institute. Colonel Liebmann's activities in radio were as vice president and chief engineer of Foote-Pierson, an organization which manufactured radio equipment to the order of several radio companies. In this work he provided important engineering services. As a lieutenant colonel in the 23rd Regiment, New York National Guard, he arrived in France in July, 1917, and was killed in action shortly thereafter.

The award consists of the income from a gift of \$10,000, and is not a stated amount as it is the interest from the securities in which the principle is invested.

The recipient shall be a member of the Institute who

shall have made public during the recent past an important contribution to radio communication. The contribution shall be completely and adequately described in a scientific or engineering publication of recognized standing.

How remote this publication may be is left to the judgment of the committee and will depend upon the rapidity with which the advancement is applied in practice, such application indicating its importance. Where several contributions are being considered, that which is widely used or is generally useful shall be given preference.

The recipient of this award is named by the Awards Committee, appointed annually by the Board of Directors.

Recipients of Morris Liebmann Memorial Prize

L. F. Fuller 1919	Stuart Ballantine 1931
R. A. Weagant 1920	Edmond Bruce 1932
R. A. Heising 1921	Heinrich Barkhausen .1933
C. S. Franklin 1922	V. K. Zworykin 1934
H. H. Beverage 1923	F. B. Llewellyn 1935
J. R. Carson 1924	B. J. Thompson 1936
Frank Conrad 1925	W. H. Doherty 1937
Ralph Bown 1926	G. C. Southworth 1938
A. H. Taylor 1927	H. T. Friis 1939
W. G. Cady 1928	H. A. Wheeler 1940
E. V. Appleton 1929	P. T. Farnsworth ...1941
A. W. Hull 1930	S. A. Schelkunoff 1942

MEMBERSHIP

The Constitution of the Institute provides for several grades of membership, each of which has been established to meet the requirements of a particular group of members. The tabulation on page 13, gives for each membership grade the requirements as to age, experience, and references, together with entrance and transfer fees, and dues. Full details are contained in the first few articles of the Constitution which is published elsewhere in this Yearbook.

Membership in the Institute includes a number of valuable features which are of inestimable importance to those active in the technical radio field and those connected with closely related lines of activity. Regardless of grade, each member receives the PROCEEDINGS regularly and copies of all Yearbooks and Standards reports when they are published. Notices of meetings at which papers are presented are forwarded to all members located in the territory which is immediately adjacent to the city in which the meeting is held. Convention and regional meetings are announced in the PROCEEDINGS. Additionally, membership enrolls one with those others who have indicated their interest in this field and whose activities therein are predominantly responsible for the progress which each year witnesses.

The grade of Fellow is reserved for those whose contributions to radio have raised them to a place of distinction among their fellow workers. To the Fellow is reserved the honor of serving as president or vice president of the Institute.

The Member grade is the professional grade and is open to recognized engineers and comparably qualified individuals who have served sufficiently long in their field to establish their standing.

The Associate and Junior grades are provided for those with a general interest in the field or whose technical qualifications are not such as to permit their acceptance as Members. The only difference between these two grades is that of age.

The Student grade of membership permits those enrolled as students in our engineering colleges to become affiliated with the Institute and receive its publications at a very low annual cost. Membership in this grade is sharply restricted to bona fide students taking engineering and science courses in recognized colleges.

Before applying for membership, the applicant should consider carefully the various grades of membership available and choose that one which best fits his qualifications. Extracts of the Constitution pertaining to membership requirements are given on application forms which may be obtained from the Institute.

When filling in the application form, the applicant should submit the names of those persons who have knowledge of his professional experience, in preference to those who have a high professional standing but cannot vouch for him. The personal signatures of references are not required.

IDENTIFICATION OF MEMBERSHIP GRADE



Two general means of identifying an Institute member and indicating his grade of membership are through the use of a membership badge and an abbreviation following his written name.

All Institute badges are of the design shown in the accompanying illustration. Badges are available in three forms; a screw-back lapel button, a lapel pin, and a watch charm. The lapel button is approximately half the size of the illustration and may be purchased from the Institute office 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 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 are of 14-carat gold. The grade is indicated by the color of the background, the lettering being in gold. The only exception is in the Fellow grade in which the lettering is in blue. The following tabulation gives the color of the background for the emblem of that grade and also the authorized abbreviations to be used for written communications:

Grade	Emblem	Abbreviation
Fellow	Gold	F.I.R.E.
Member	Blue	M.I.R.E.
Associate	Maroon	A.I.R.E.
Junior	White	
Student	Green	

All other methods of indicating membership are contrary to the expressed opinion of the governing body of the Institute. The use of the Institute emblem on personal or business stationery, cards, etc., is likewise not approved and members are requested to call such use to the attention of the secretary.

MEMBERSHIP CERTIFICATES

Membership cards are issued to those requesting them of the secretary. Similarly, diplomas are prepared and forwarded to Members and Fellows who desire them.

MEETINGS

About eight meetings are held in the Engineering Societies Building, 33 West 39th Street, New York City, each year. Usually, no meetings are held during the

MEMBERSHIP REQUIREMENTS, DUES, ETC. (For full particulars see Constitution and Bylaws)

Grade	Age	Experience	Sponsors	Entrance Fee	Annual Dues
FELLOW	—	Awarded only. No application permitted.		\$5	\$10
MEMBER	26	a. Radio engineer or radio scientist—4 years active practice and important work. b. College teacher of radio for 4 years. c. 4 years in an allied art and contributions to radio engineering. d. Executive for 6 years having direct supervision of the technical features of radio engineering work.	5 Fellows or Members*	5	10
ASSOCIATE	21	Interest in radio or allied fields.	3 Members or Nonmembers	3	6
JUNIOR	18	Same as for Associate. Transfer to Associate at 21 years of age.	Same as for Associate	1	4
STUDENT†	—	College student pursuing regular 4-year engineering or science course leading to a degree.	College Faculty Member	—	3

NOTE: When transferring from one grade to another a transfer fee, equal to the difference between the entrance fees for the two grades is payable.
* When the work or location of an applicant makes impracticable the submission of Member of Fellow sponsors, the Admissions Committee may accept other satisfactory references.

† A special application blank is required for this grade. Upon the expiration of student status, no transfer fee is required if immediate transfer is made to Associate grade.

summer months. Meetings are devoted to the presentation of technical papers and their discussion. Normally, the meetings are held on the first Wednesday of each month.

SECTIONS

Where a sufficient number of Institute members are located in a relatively small territory, a section of the Institute may be established, primarily for the purpose of holding meetings at which technical papers are presented. Twenty-six sections are now in active operation in the United States, Canada, and Argentina.

ORGANIZING A SECTION

In organizing a new section of the Institute, some difficulties may be avoided and the efforts of the organizers made more effective by observing the suggestions which follow:

a) The Constitution for Sections which appears elsewhere in this book should be read carefully as should Sections 37-44 and 47 of the Institute Bylaws. A section manual may be obtained from headquarters. In it will be found answers to practically all questions that will arise in the operation of a section. While the basic requirements are contained in the Constitutions and Bylaws, the manual gives much additional information on the practical running of a section.

b) A small group of local members who are interested in the formation of a section should act as a temporary organization committee. There may be obtained from Institute headquarters a list of all members of the Institute residing in the proposed territory of the section. This will permit the committee to canvass existing members and obtain opinions as to the probable support they will give the proposed section, also, it will disclose the lack of membership on the part of acquaintances whose interests might logically indicate the desirability of their becoming affiliated with the Institute. Membership applications may be distributed to this latter group.

c) At least twenty-five Fellows, Members, and Associates residing in the proposed territory must sign a petition for the formation of a section. This is the minimum number of members required for the continued operation of a section.

d) An organization meeting of the Institute members in the proposed section territory should be called. The notification of the meeting should contain a statement of its purpose and the fact that signatures of active members will be requested on a petition for the establishment of a section. In order to stimulate attendance at this meeting, it is essential that a technical paper be presented as it is exceedingly difficult to obtain a satisfactory turnout of people for a purely business meeting. A petition may read as follows:

Board of Directors,
Institute of Radio Engineers,
330 West 42nd Street,
New York, N.Y.

Gentlemen:

We, the undersigned Fellows, Members, and Associates of the Institute of Radio Engineers, residing within the city of and its environs, respectfully petition for the establishment of a new section to be known as the Section of the Institute of Radio Engineers which is to be operated in conformance with the governing documents and rules of the Institute

Unless the names on the petition are checked against membership lists supplied from Institute headquarters it is desirable that thirty or thirty-five names be obtained before the petition is forwarded to headquarters. Unless extreme care is taken, signatures of nonmembers will be included in these petitions. The petition and a report of the activities of the meeting should be forwarded to the Institute office.

e) A petition for a section will be considered by the Board of Directors which may request an examination and recommendation from the Sections Committee.

f) On approval of the Board of Directors, the first official meeting of the section should be called. Permanent officers should be elected and standing committees appointed.

g) At least one Section Bylaw should be established. This fixes the date of the annual meeting of the section at which new officers are elected.

h) As a portion of the section income is computed on the basis of the number of meetings held, it is essential that the secretary forward a report of each meeting to Institute headquarters. No funds will be forwarded to sections which are delinquent in submitting financial statements at the end of each calendar year.

REPORT OF SECRETARY—1941

The following report is submitted to inform the membership of the activities of the Institute during the calendar year 1941.

Volume 29 (1941) contained 668 pages of technical papers and editorial material (numbered in Arabic), an increase of 14 per cent over the 1940 volume.

MEMBERSHIP

The paid membership increased to 7021, which is 23 per cent larger than at the end of 1940. Fig. 1 gives data on the variation of membership throughout the life of the Institute. The proportion of the membership located in countries outside of the United States and its possessions dropped from its high of 24.2 per cent in 1935, to 14.3 per cent. The foreign membership, considered separately, decreased 3.5 per cent during the past year while the domestic membership increased by 28.7 per cent.

An increase of 10.6 per cent occurred in the membership in the British Empire during 1941 compared with a reduction of 15 per cent during 1940. The European membership was reduced by 28 per cent during 1940 and 59 per cent in 1941. Increases of 13 and 28 per cent were recorded in the South American membership for the two years.

Table I gives a breakdown of the distribution of the membership by grades. The percentage of the total in each grade is also noted.

There were 1643 new members admitted during 1941, in contrast to 855 during 1940, an increase of 92 per cent. During the year, 1608 applications for membership were received, 76 per cent more than the 913 submitted during 1940. The increase of Student applications amounted to 48 per cent and for all other grades, 96 per cent.

TABLE I—MEMBERSHIP DISTRIBUTION BY GRADES

Fellow	166	2.4%
Member	761	10.8%
Associate	5135	73.1%
Junior	50	0.7%
Student	905	13.0%
	<u>7021</u>	<u>100.0%</u>

PROCEEDINGS

Because there were fewer acceptable manuscripts available than was anticipated, the December, 1940, issue of the Proceedings was delayed until February, 1941. Under a broadened scope as to both subject material and its treatment, a committee, under the chairmanship of B. E. Shackelford, was set up to solicit papers of a special type and another, under the chairmanship of D. D. Israel, was established to procure papers of the regular variety. An increased number of manuscripts were then procured and the rate of publication speeded up so that the December, 1941, issue appeared during that month.

SECTIONS

The Dallas-Fort Worth, Kansas City, St. Louis, and Twin Cities Sections were established this year, bringing the total to 27 sections.

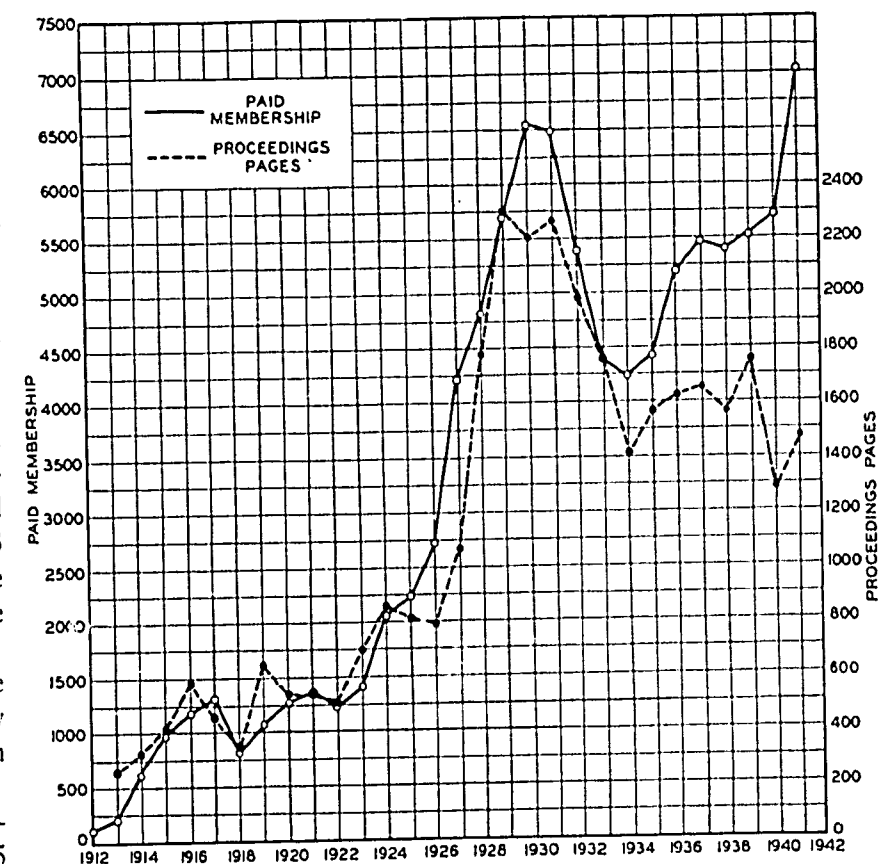


FIG. 1. The variation in paid membership is shown by the solid graph. The dotted line is for the number of pages of technical and editorial material in the Proceedings. Starting in 1939, a larger format was used and the scale of pages should be divided by 2.2.

Under the provisions of a bylaw, established in 1939, requiring each section to hold a minimum of 5 meetings per year, the New Orleans Section was dissolved. This reduced the number of sections to 26.

The 235 meetings held by the sections exceeded the previous record of 200 attained in 1940, and the number of members in sections reached a new maximum of 3543, compared with 2642 for 1940. The proportion of the total membership located in section territories rose from 46 per cent in 1940 to a new high of 51 per cent.

MEETINGS

In addition to the 235 meetings held by our sections and the 8 meetings held in New York City, there were 4 conventions.

The Winter Convention was held on January 9, 10, and 11 in New York City. There were 28 technical papers presented during 6 sessions. Inspection trips numbered 4 for the men and 3 for the women. The attendance totaled 1243 men and 67 women.

Detroit, Michigan, was the headquarters for the Sum-

mer Convention which was held on June 23, 24, and 25. During 7 technical sessions 33 papers were presented. There were 5 trips exclusively for the men, 2 exclusively for the women, and 2 were of joint interest. The registration totaled 353 men and 53 women.

The fifth of our Pacific Coast Conventions was held in Seattle, Washington, on August 20, 21, and 22. The 4 technical sessions were devoted to the delivery of 17 papers. There were 2 inspection trips arranged for the men, 2 sightseeing trips for the women, and 2 theater parties. The registration totaled 122 men and 21 women.

The Rochester Fall Meeting was held on November 10, 11, and 12 in Rochester, New York. The presentation of 17 technical papers occurred during 7 sessions. A total registration of 520 was recorded.

BOARD OF DIRECTORS

The Board of Directors consists of 21 members, 14 of whom are elected directly by the membership, the re-

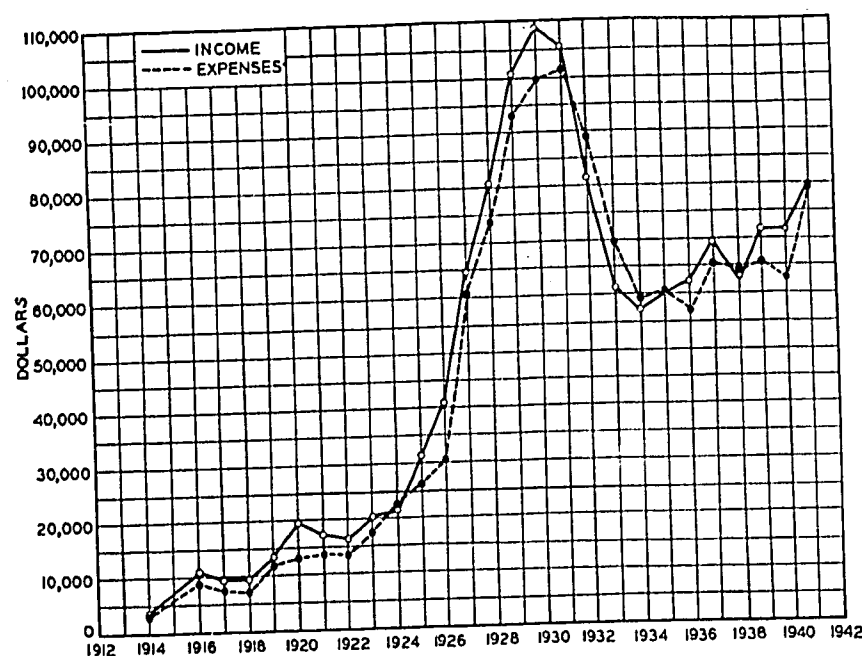


Fig. 2. Income and expenses are plotted for the life of the Institute.

maining 7 being appointed by the Board. During 1941, the Board held 11 meetings.

EXECUTIVE COMMITTEE

Early in 1941, an Executive Committee, consisting of 7 members of the Board of Directors, was established to provide more effective leadership and management of the Institute. This committee held 16 meetings during the year.

ADMINISTRATIVE COMMITTEES

There are 20 committees and subcommittees whose activities bear directly on the operation of the Institute and its relations with its membership and others. These committees held 35 meetings in the discharge of their duties.

TECHNICAL COMMITTEES

The technical services of the Institute are in the hands

of 33 committees and subcommittees. These groups were responsible for 29 meetings.

SUMMARY OF MEETINGS

There were 3 additional meetings held by special groups to consider matters which did not require formal committees. A summary of the number of meetings of all groups held during the year follows.

TABLE II—MEETINGS HELD DURING 1941

11	Board of Directors
16	Executive Committee
35	Administrative Committees
29	Technical Committees
3	Special Committees
94	

CONSTITUTION AND BYLAWS

The Constitution was amended by vote of the membership. The modifications included a broadening of the requirements for Member, a reduction in entrance fee for Fellow, and changes and clarification of the procedures for the appointment of committees and directors. A proposal to establish regional directors failed. The amendments of the bylaws, which are made by the Board of Directors, were too extensive for enumeration in this report.

AWARDS

The Institute Medal of Honor for 1941 was presented to Alfred Norton Goldsmith for his contributions to radio research, engineering, and commercial developments, his leadership in standardization, and his unceasing devotion to the establishment and up-building of the Institute and its PROCEEDINGS.

The Morris Liebmann Memorial Prize was bestowed on Philo T. Farnsworth for his contributions in the field of applied electronics.

In recognition of their contributions to radio, the following 7 members were transferred to Fellow:

Marcus A. Acheson	O. B. Hanson
Edmund N. Deloraine	Ira J. Kaar
Austin V. Eastman	Arthur S. McDonald
	Ralph K. Potter

FINANCES

A comparative statement of income and expenses for 1941 and 1940, which is based on data contained in the annual audits prepared by Patterson and Ridgway, certified public accountants, and a comparative balance sheet for the same periods also taken from their reports are given herewith. In addition, the income and expenses over the life of the Institute are plotted in Fig. 2.

HEADQUARTERS STAFF

The headquarters staff was composed of 16 persons at the end of the year as contrasted with 11 at the close of 1940. Of these, 3 were on a temporary basis and 1 was on sick leave. In addition, the arrangements for the solicitation of advertising in the PROCEEDINGS were changed in the latter part of the year to a contractual basis which made available to the Institute the services of an advertising manager and his secretary. Thus, 18 persons were "employed" by the Institute at the end of the year.

DEATHS

The deaths of a Fellow, 3 Members, and 3 Associates, whose names are listed below, were reported during 1941.
T. S. Baker (A'29-M'37) J. R. Carson (M'16-F'38)
F. B. Borges (A'31) A. Hall (M'27)
W. N. Capen (M'31) S. S. Kirby (A'27)
E. G. Moutoux (A'31)

June 13, 1942

ACKNOWLEDGMENT

A large part of the substantial progress made by the Institute during 1941 was the result of the tireless direction and stimulation by President Terman. He devoted many weeks during the year to a detailed examination and analysis of the Institute's affairs. The active support of the Board of Directors, Executive, and other committees was essential to this work and contributed to the rapidity and extent of the progress.

Respectfully submitted,

Harold P. Westman

HAROLD P. WESTMAN
Secretary

COMPARATIVE STATEMENT OF INCOME AND EXPENSES FOR THE YEARS ENDING DECEMBER 31, 1941, AND 1940

INCOME

	1941	1940
Dues, Current and in Arrears	\$41,760.15	\$40,487.50
Entrance and Transfer Fees	2,926.00	1,774.00
Subscriptions	10,959.04	11,399.95
Advertising	16,560.40	13,138.66
Binders, Bound Volumes, Emblems, Reprints	3,266.15	1,795.55
Interest from Investments ¹	1,122.20	626.00
Conventions	2,938.50	1,770.00
Miscellaneous	178.17	502.87
	<u>\$79,710.61</u>	<u>\$71,494.53</u>

EXPENSES

	1941	1940
Advertising Commissions, Salaries, Expenses	\$ 5,172.69	\$ 1,180.23
Bad Debts, Less Recoveries ²	3,462.18	4,874.42
Binders, Bound Volumes, Emblems, Reprints	2,493.52	1,380.64
Conventions	4,172.31	3,023.12
Membership Solicitation	1,470.60	142.01
New York Meetings	881.09	796.22
Office	6,677.81	4,128.68
	<u>\$21,369.62</u>	<u>\$17,255.23</u>
Depreciation	\$ 586.88	\$ 449.94
Insurance	197.81	180.45
Postage	3,064.91	1,543.92
Stationery, Supplies	1,935.49	1,240.15
Telegraph, Telephone	892.72	714.22
Printing	\$20,519.03	\$16,829.27
PROCEEDINGS	303.06	88.30
Standards	547.53	337.66
Miscellaneous		
Professional Services, Accounting and Management		1,650.00
Rent and Electricity		3,228.00
Salaries		22,445.43
General	\$15,300.71	\$13,832.94
PROCEEDINGS	5,683.12	6,041.06
Standards	1,461.60	1,572.70
Sections		4,188.52
Securities Exchange Loss ³		701.50
Miscellaneous		1,467.90
	<u>\$79,381.17</u>	<u>\$62,420.95</u>
NET PROFIT	\$ 329.44	\$ 9,073.58

¹ Morris Liebmann Memorial Fund and Prize not included in this accounting.

² At least 99 per cent of these amounts represent nonpayment of dues.

³ Reorganization of Chicago and Eastern Illinois Railway made exchange of securities compulsory.

THE INSTITUTE OF RADIO ENGINEERS, INC.
COMPARATIVE BALANCE SHEET

December 31, 1941 and 1940

ASSETS	DECEMBER 31, 1941	DECEMBER 31, 1940	INCREASE Decrease	LIABILITIES AND SURPLUS	DECEMBER 31, 1941	DECEMBER 31, 1940	INCREASE Decrease
CURRENT ASSETS				ACCRUED WAGES ..		\$ 345.88	\$ 345.88
Cash	\$ 44,968.09	\$33,131.01	\$11,837.08	ACCOUNTS PAY- ABLE	\$ 3,717.01	4,220.46	503.45
Accounts Receiv- able—Cur- rent Dues ..	360.22	450.72	90.52	SECTION REBATE— BUENOS AIRES ..	170.00	44.50	125.50
Advertising ..	2,341.32	3,153.00	811.68	SUSPENSE		15.07	15.07
Reprints	158.90	51.17	107.73	ADVANCE PAYMENTS			
Exhibition Booths	150.00		150.00	Dues	15,708.12	2,119.16	13,588.96
Inventories (as submitted by the manage- ment)				Subscriptions ...	1,862.51	2,735.37	872.86
PROCEEDINGS ..	7,363.28	6,901.84	461.44	AMOUNT WITH- HELD FROM EMPLOYEES	335.41	50.56	284.85
Bound Volumes ...	207.00	194.00	13.00	TOTAL LIABILITIES	21,793.05	9,531.00	12,262.05
Binders	216.55	278.45	61.90	MORRIS LIEBMANN MEMORIAL FUND			
Emblems	191.98	360.34	168.36	Investment Fund	10,012.45	10,012.45	
Accrued Interest on Invest- ments	94.17	167.50	73.33	Unexpended Income	351.08	77.87	273.21
TOTAL CUR- RENT ASSETS	56,051.51	44,688.03	11,363.48	TOTAL FUND	10,363.53	10,090.32	273.21
INVESTMENTS—AT COST				DEFERRED INCOME— CONVENTION ...	1,135.00	615.00	520.00
(Market Value, Dec. 31, 1941, \$21,609.08.) ..	36,246.37	36,947.87	701.50	SURPLUS—DONATED	1,997.80	1,997.80	
MORRIS LIEBMANN MEMORIAL FUND ASSETS				SURPLUS—EARNED	73,508.58	73,464.50	43.98
Investments (Market Value, Dec. 31, 1941, \$6,210.75.) ...	10,012.45	10,012.45					
Cash	351.08		351.08				
TOTAL FUND ASSETS	10,363.53	10,012.45	351.08				
FURNITURE AND FIXTURES AFTER RESERVE FOR DE- PRECIATION	5,279.70	3,289.30	1,990.40				
PREPAID EXPENSES							
Unexpired Insur- ance	49.76	85.12	35.36				
Stationery Inven- tory—Esti- mated	200.00	200.00					
Convention Ex- penses	327.19	475.95	148.76				
Salaries	181.20		181.20				
Yearbook Ex- penses	98.70		98.70				
TOTAL PRE- PAID EX- PENSES	856.85	761.07	95.78				
TOTAL ASSETS ...	\$108,797.96	\$95,698.72	\$13,099.24	TOTAL LIA- BILITIES AND SURPLUS ..	\$108,797.96	\$95,698.72	\$13,099.24

The Institute of Radio Engineers

(Incorporated, August 23, 1913)

CONSTITUTION

Adopted at the First Meeting of the Institute of Radio Engineers
May 13, 1912. Amended, November 2, 1914; December 5, 1915;
October 7, 1931; March 1, 1939; and November 5, 1941.

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

b. 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.

c. Associates, who shall be entitled to attend all meetings and to receive copies of all Institute publications. In addition, Associates of record at the time of adoption of this Constitution shall be voting members so long as a continuous membership is maintained.

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

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

SEC. 2—Fellow: For admission or transfer to the grade of Fellow, a candidate shall be at least thirty-two years of age and shall be either:

a. A radio engineer or radio scientist. As such he shall have attained distinction in his profession and shall be eminently qualified to take responsible charge of important radio work. He 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 candidate 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 electrical engineering or of physical science. As such he shall have attained special distinction as an expounder of the principles of radio engineering or of radio science. He shall have had at least ten years' experience as a teacher of electrical or physical subjects and shall have had responsible charge, for three years, of a radio course in a school of recognized standing.

c. A person who has done notable original work contributing to the advancement of radio engineering which has given 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 contributions to the advancement of radio engineering or radio science, or to technical radio litera-

ture has attained a standing at least equivalent to that required for Fellow under paragraph "a" or "b."

SEC. 3—Member: For admission or transfer to the grade of Member, a candidate shall be at least twenty-six years of age and shall be either:

a. A radio engineer or radio scientist. As such he shall have performed and taken responsibility for important radio engineering or scientific work and shall have been in the active practice of his profession for at least four years.

b. A teacher of radio or closely allied subjects for at least four years in a school of recognized standing. He shall have been in responsible charge of a major course in such fields.

c. A person regularly employed in radio or closely allied work for at least four years, who by invention or by contributions to the advancement of radio engineering or radio science, or to technical radio literature, has attained a standing equivalent to that required for Member under paragraph "a."

d. A person at least twenty-eight years of age who is an engineer or scientist by profession in work closely allied to radio. As such, under general direction, he shall have taken responsibility in important engineering or scientific work in his field and shall have been in active practice of his profession for at least seven years.

e. An executive of a radio enterprise who, for at least six years, has had under his direction, important radio engineering or research work and who is qualified for direct supervision of the technical or scientific features of such activities.

SEC. 4—Associate: For admission or transfer to the grade of Associate, a candidate shall be at least twenty-one years of age and shall be interested in the theory or practice of radio communication or of the closely related arts and sciences.

SEC. 5—Junior: For admission to the grade of Junior, a candidate shall be at least eighteen and not more than twenty-one years of age and shall be interested in the theory or practice of radio communication or of the closely related arts and sciences.

A Junior shall be transferred to the Associate grade on reaching the age of twenty-one years.

SEC. 6—Student: For admission to the grade of Student, a candidate shall be devoting a major proportion of his time as a registered student in a regular course of study in engineering or science in a school of recognized standing. Membership in this grade shall not extend more than one and one-half years beyond the termination of his student status described above.

SEC. 7—The expression "school of recognized standing" is interpreted as applying to schools of college grade providing an engineering or scientific curriculum of not less than four years and granting degrees.

SEC. 8—In all cases, graduation from a radio or electrical course of a school of recognized standing shall be accepted in lieu of one year's radio experience.

SEC. 9—The time requirements for admission to any grade of membership may be satisfied by applying *pro rata* the experience of the candidate under the various alternative requirements for that grade.

SEC. 10—The terms "member" and "membership" when printed without an initial capital where used in this Constitution and Bylaws includes all grades.

SEC. 11—The term "voting member" where used in this Constitution and Bylaws means a member entitled to vote on Institute matters.

ARTICLE III

ADMISSIONS, TRANSFERS, AND EXPULSIONS

SEC. 1—Admission or transfer to Fellow grade shall be by invitation by the Board of Directors only.

SEC. 2—Applications for admission or transfer to any grade of membership, except Fellow, shall be submitted to the Board of Directors. An affirmative vote of at least two thirds of the Board members voting shall elect or transfer an applicant to any grade.

SEC. 3—A reapplication for admission or transfer may be made after the expiration of one year from the date of a rejection.

SEC. 4—The admission fee and dues are payable on notification of election and if not received within six months from notification, the election shall be considered void.

SEC. 5—A member in good standing may resign by submitting a written resignation to the Secretary.

SEC. 6—Subject to the approval of the Board of Directors, a resigned member may resume his membership upon payment of current dues.

SEC. 7—When a member's dues become three months in arrears his membership shall be considered terminated. Subject to the approval of the Board of Directors, such membership may be resumed on payment of a new entrance fee and current dues or by the payment of all dues in arrears.

SEC. 8—To initiate action toward expulsion of a member, a written complaint must be submitted to the Board of Directors, which if it deems the reason sufficient, shall notify the accused by letter of the charges against him and of the place and date of the hearing, which shall be at least twenty days away. The accused may present his defense in person, in writing, or by an authorized representative. There shall be a majority of the members of the Board of Directors present at the hearing and the votes cast must be unanimous in order to expel. The action of the Board of Directors shall be final and conclusive.

ARTICLE IV

ENTRANCE FEES AND DUES

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

Entrance Fees

Fellow	\$ 5.00
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 except that there shall be no fee when transferring immediately from Student to Associate membership.

Annual Dues

Fellows	\$10.00
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.

SEC. 3—Under exceptional circumstances, the payment of fees and dues may be deferred or waived in whole or in part by the Board of Directors.

ARTICLE V

OFFICERS

SEC. 1—The governing body of the Institute shall be the Board of Directors and shall consist of the President, Vice President, Secretary, Treasurer, Chairman of the Board of Editors, nine elected Directors, five appointed Directors, and the two most recent past Presidents.

SEC. 2—Except for the elected Directors, the terms of all officers shall be for one year each.

SEC. 3—The terms of the elected Directors shall be for three years each.

SEC. 4—The terms of the appointed Directors shall be for the current calendar year.

SEC. 5—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 Bylaws.

ARTICLE VI

MANAGEMENT

SEC. 1—The President shall be the regular presiding officer at meetings of the Board of Directors and at meetings of the Institute. He shall be an *ex officio* member of each committee.

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

In the event that neither the President nor the Vice President can personally act, the Board of Directors may elect a chairman from its membership who is authorized to perform the presidential duties during the period of the incapacity of the President and Vice President. The tenure of such temporary chairman shall be at the discretion of the Board of Directors.

SEC. 2—The Board of Directors shall manage the affairs of the Institute. An annual report shall be made to the members on the activities and finances of the Institute.

Six members of the Board of Directors shall constitute a quorum.

SEC. 3—The Board of Directors may make, amend, or revoke Bylaws to this Constitution. The proposed changes and reasons therefor shall be mailed to all members of the Board at least twenty days before the stipulated meeting at which the vote shall be taken. Two thirds of all votes received at the stipulated meeting shall be required to approve any new Bylaw, amendment, or revocation.

SEC. 4—The Treasurer, under the control of the Board of Directors, shall have general supervision of the fiscal affairs of the Institute.

The Institute 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 and prepare the business and record the proceedings thereof. He shall have charge of the books of account of the Institute, and shall furnish from them such information as is requested by the Board of Directors. He shall conduct the correspondence of the Institute and keep full records thereof.

The Institute 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 funds received by the Institute shall be deposited in an account requiring the signatures of at least two of the following for withdrawal: President, Vice President, Treasurer, Secretary, and Chairman of the Board of Editors. Funds from this account shall, in general, be deposited in a second account which shall never exceed an amount specified by the Board of Directors and shall be withdrawable on the signature of the Secretary alone for current disbursements. Before funds are transferred from the first-mentioned account to the other, the Secretary shall submit a statement of the disposition of the previously expended funds to the Treasurer.

SEC. 7—All committees shall be appointed by the Board of Directors.

SEC. 8—The fiscal year of the Institute shall end with the thirty-first day of December.

ARTICLE VII

NOMINATION AND ELECTION OF PRESIDENT, VICE PRESIDENT, AND THREE DIRECTORS, AND APPOINTMENT OF SECRETARY, TREASURER, CHAIRMAN OF THE BOARD OF EDITORS, AND FIVE DIRECTORS

SEC. 1—On or before July first of each year, the Board of Directors shall submit to qualified voters a list of nominations containing at least one name each for the office of President and

Vice President and at least six names for the office of elected Director and shall call for nominations by petition.

Nominations by petition may 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 fifteenth of any year and shall be signed by at least thirty-five voting members.

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 shall be withdrawn by the Board.

On or before September first, the Board of Directors shall submit to the voting members as of August fifteenth, a list of nominees for the offices of President, Vice President, and elected Director, the names of the nominees for each office being arranged in alphabetical order. The ballots shall carry a statement to the effect that the order of the names is alphabetical for convenience only and indicates no preference.

Voting members shall vote for the candidates 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 twenty-fifth shall be counted. Ballots shall be checked, opened, and counted under the supervision of the Tellers Committee between October twenty-fifth and the first Wednesday in 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 Director receiving the greatest number of votes shall be declared elected. In the event of a tie vote the Board shall choose between the nominees involved.

SEC. 2—The Secretary, Treasurer, and Chairman of the Board of Editors, shall be appointed by the Board of Directors at its annual meeting to serve until the next annual meeting.

SEC. 3—The five appointed Directors shall be appointed by the Board of Directors at its annual meeting to serve for the remainder of the calendar year.

SEC. 4—The Board of Directors is authorized to fill a vacancy occurring in the governing body.

ARTICLE VIII

MEETINGS

SEC. 1—There shall be an annual meeting of the Board of Directors during January of each year 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 general reports of the Secretary and Treasurer shall be presented.

SEC. 3—Meetings of the Board may be held at such times as are necessary to carry out the provision of this Constitution and shall be held at such other times as any five members of the Board may determine, but only on notice to all members of the Board.

ARTICLE IX

INSTITUTE SECTIONS

SEC. 1—Sections of the Institute may be authorized by the Board of Directors.

SEC. 2—The Board of Directors may at any time terminate the existence of any section when in its judgment the interests of the Institute makes such action desirable.

ARTICLE X

AMENDMENTS

SEC. 1—Amendments to this Constitution may be proposed by means of a resolution adopted by the Board of Directors or by means of a petition signed by at least thirty-five voting members. 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 voting members at least sixty days before the date appointed for counting the ballots and the ballots shall carry a statement of the time limit for their return to the executive office. The Tellers Committee shall count such votes and report to the Board of Directors at its next meeting. If the total vote be at least twenty per cent of the total voting membership and if at least seventy-five per cent of all votes cast shall be favorable, the proposed amendment or amendments shall become part of this Constitution.

SEC. 3—Amendments shall take effect thirty 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—Copies of the amendments shall be distributed to the members as soon as practicable after adoption.

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

Bylaws

(As of November 5, 1941)

Article VI, Section 3, of the Institute Constitution provides for Bylaws as follows:

"The Board of Directors may make, amend, or revoke Bylaws to this Constitution. The proposed changes and reasons therefor shall be mailed to all members of the Board at least twenty days before the stipulated meeting at which the vote shall be taken. Two thirds of all votes received at the stipulated meeting shall be required to approve any new Bylaw, amendment, or revocation."

MEMBERSHIP

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

Fellow—F.I.R.E.
Member—M.I.R.E.
Associate—A.I.R.E.

SEC. 2—The emblem of the Institute is copyrighted and shall be reproduced only in connection with official business of the Institute.

SEC. 3—Applicants for membership shall furnish names of sponsors as follows:

For Member—Five Fellows or Members.
For Associate—Three Fellows, Members, Associates, or other responsible individuals.

For Junior—Three Fellows, Members, Associates, or other responsible individuals.

For Student—A member of the faculty of his school.

SEC. 4—When the work or location of an applicant for Member grade is such as to make impracticable compliance with Section 3, the Admissions Committee may waive that section upon obtaining other suitable references.

SEC. 5—The name of each applicant for admission or transfer to the grade of Member shall be posted in the PROCEEDINGS, after approval by the Admissions Committee.

SEC. 6—Objection to the admission of a candidate must include reasons for such objection and must reach the office of the Institute by the first day of the month following posting in the PROCEEDINGS. All such statements shall be treated as confidential.

SEC. 7—The name of each newly admitted or transferred Associate or Member shall be published in the PROCEEDINGS.

SEC. 8—A notice of his election shall be sent to each newly admitted member together with a bill for his entrance fee and dues, if not previously paid, dues being computed for the remainder of the calendar year beginning with the quarter next succeeding the date of his election. His entrance fee or dues remaining unpaid, additional bills shall be sent the newly elected member sixty days and one hundred and twenty days after notification of his election, in the last instance accompanied by a warning that his election will be considered void if his admission fee and dues are not received within six months of his notification of election.

The names of all individuals elected to membership who fail to pay admission fees or dues within six months of notification of election shall be turned over to the Membership Committee.

SEC. 9—The name of each applicant for admission to the Institute except in the case of Member grade, shall be placed on the mailing list for the PROCEEDINGS immediately upon admission to membership and the receipt of his entrance fee and dues.

SEC. 10—The name of each applicant for admission to the grade of Member shall be placed on the mailing list for the PROCEEDINGS immediately upon receipt of his application and the entrance fee.

SEC. 11—PROCEEDINGS will be sent to members for a period not shorter than that covered by the payment of dues. Upon request, a newly admitted member may receive the PROCEEDINGS for previous quarters of the current year provided dues are remitted for such additional period.

SEC. 12—Transfer of an Associate to Member grade may be proposed by any member acting as sponsor, in which case the sponsor shall fill in the application blank and provide letters of reference for submission to the Admissions Committee. If the application is favorably acted on, the sponsor shall secure the candidate's signature to a duplicate application blank after which the application shall be submitted to the Board of Directors.

SEC. 13—The Membership Committee may recommend for transfer to higher grade those members who they think are qualified.

SEC. 14—Each year, the Awards Committee shall recommend to the Board of Directors nominees for Fellow grade. A citation summarizing the accomplishments of the nominee shall be a part of each recommendation.

SEC. 15—Diplomas shall be presented to the newly elected Fellows. If practicable, this presentation shall be made by the President at the next Annual Convention.

SEC. 16—A bill shall be sent to each member not later than December 1 covering his dues for the following year. A second bill shall be mailed on or about February first to each member whose dues remain unpaid. Not later than March first, each member whose dues remain unpaid shall be so notified by the Secretary and informed that, in accordance with Article III, Section 7, of the Constitution, should his dues remain unpaid after March 31, his membership will terminate and he will lose the right to vote and to receive the publications of the Institute. On April first, the name of each member whose dues remain unpaid shall be removed from the roll of membership and such member shall be sent a notice to the effect that according to Article III, Section 7, his membership in the Institute has in fact terminated. The list of such terminated memberships shall be turned over to the Membership Committee.

SEC. 17—The mailing of bills or statements to the last known address of a member shall be considered a valid notice of indebtedness.

SEC. 18—On resuming membership and paying dues in arrears, a member may receive available copies of the PROCEEDINGS during the period covered by the back dues. A rebate of 25 cents per copy will be made in lieu of copies of the PROCEEDINGS not available.

SEC. 19—The Secretary shall, as soon as possible after the end of each year, present to the Board of Directors a report giving the number of members of each grade at the close of the year, and the gains and losses in each grade of membership during the year as a result of elections, transfers, reinstatements, debts, resignations, failure to pay dues, and all other causes. This report shall also give the number of newly elected members whose elections become void during the year through the failure to pay entrance fee and initial dues, and the number of newly elected members who at the end of the year have not yet paid entrance fee and initial dues but whose election is still effective as of that date.

BOARD OF DIRECTORS

SEC. 20—Regular meetings of the Board of Directors shall be held in the office of the Institute in New York, N.Y., on the first Wednesday of each month except in July and August, unless otherwise set as provided for in Section 21.

SEC. 21—The time or place of a regular Board meeting may be altered or the meeting cancelled only by majority vote of all Board members not less than twenty days before the original date or the new date set for the meeting, whichever is the earlier. Notice of such change shall be given all Board members by mailing notice not less than ten days before the original or the new date, whichever is the earlier.

SEC. 22—As provided in the Constitution, special meetings of the Board of Directors may be called by any five members of the Board on notice to all other members. Notice of such special meeting, giving the time and place of meeting, the purpose of the meeting, and the names of the Board members calling the meeting shall be mailed to all Board members not less than twenty days before the date set for the special meeting. The place of such special meetings may be only the Institute office in New York, N.Y., unless otherwise authorized by a majority vote of all Board members.

SEC. 23—The Secretary, appointed as prescribed in Article VII, Section 2, of the Constitution, shall be paid a salary determined by the Board of Directors.

EXECUTIVE COMMITTEE

SEC. 24—The Board of Directors in managing the affairs of the Institute according to the Constitution shall appoint a committee of Officers and members of the Board of Directors called the Executive Committee to exercise powers and assume duties of executive management to the extent that the Board of Directors directs and as outlined in bylaws subject to the following limitations: that the Board may by a majority vote of those present at any meeting overrule any act or decision of the Executive Committee, except insofar as any act has in fact been carried out, or suspend at any meeting any power conferred upon the Executive Committee, such suspension to remain in effect pending repeal of the bylaw conferring such power, or direct any action or plan of the Executive Committee.

SEC. 25—The Executive Committee shall direct and coordinate the work of all committees except Appointments, Awards, Constitution and Laws, Executive, Nominations, and Tellers, unless the Board of Directors directs otherwise.

SEC. 26—The Executive Committee shall approve all membership applications below Fellow grade if and when such applications comply with entrance or transfer routines specified in the Constitution and Bylaws. The Executive Committee shall handle readmissions on the basis of policies established by the Board.

SEC. 27—The Executive Committee shall direct the formulation of and present the annual budget to the Board of Directors for approval.

SEC. 28—The Executive Committee shall manage the office of the Institute, which will include publications, advertising, and the setting of salaries (with the exception of Officers' salaries), within the limits of the budget.

SEC. 29—The Executive Committee shall set dates and locations of conventions, conferences, and meetings of the Institute and shall manage them.

SEC. 30—The Executive Committee shall supervise the formation and operation of Sections and propose their approval to the Board of Directors.

SEC. 31—The Executive Committee shall direct and manage Institute standardization activities including relations with other organizations.

SEC. 32—The Executive Committee may divide its duties and responsibilities among its members as it sees fit and conduct its business as it finds necessary, and shall formulate a "Code of Administrative Practice."

SEC. 33—Minutes of the meetings of the Executive Committee shall be sent to the members of the Board of Directors.

SEC. 34—In addition to its other duties, the Executive Committee is charged with broadly considering Institute policies, and making appropriate recommendations to the Board of Directors on its own initiative.

NOMINATIONS

SEC. 35—The Nominating Committee shall submit more than one name for each elective office.

SEC. 36—The Nominating Committee shall transmit its list of proposed nominees to members of the Board of Directors at least a week before the date at which the Board is expected to act upon them.

SECTIONS

SEC. 37—A petition for the formation of a Section shall be signed by not fewer than twenty-five (25) Fellows, Members, and Associates residing within the proposed territorial limits.

SEC. 38—The territory of a Section shall be specified by the Board of Directors.

SEC. 39—All Sections shall accept and conform to a "Constitution for Sections" provided by the Institute Board of Directors.

SEC. 40—For Section maintenance, fifty cents shall be paid by the Institute to each Section for each Fellow, Member, and Associate residing within the territory of the Section at the end of the fiscal year, namely, December 31, plus ten (\$10.00) dollars for each meeting up to and including the tenth meeting held during the year.

SEC. 41—Sections shall have no authority to contract debts for, pledge the credit of, or in any way bind the Institute.

SEC. 42—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 during January of each year a financial statement for the preceding year.

SEC. 43—A Section of the Institute may co-operate with other organizations in the holding of joint meetings and may invite members of such organizations and the public to its meetings.

SEC. 44—Failure of a Section to maintain the required activities, which shall include the holding of at least five meetings each year and also the maintenance of a minimum membership of 25 Associates, Members, and Fellows, shall place the section on probation. All members of the Section shall be informed of the probation by the Secretary of the Institute who shall also call to their attention the requirements for maintaining the Section.

If the delinquency continues for a second year, a second notification to the Section membership shall be made by the Institute Secretary and the Board of Directors shall be informed of the probationary status of the Section.

If the delinquency continues for a third year, the Section shall, thereupon, be dissolved. The Secretary shall so report to the Board of Directors and so inform the Section membership.

COMMITTEES AND REPRESENTATIVES

SEC. 45—The standing Committees, each of which shall normally consist of five or more persons, shall include the following:

Admissions	Annual Review
Appointments	Electroacoustics
Awards	Electronics
Board of Editors	Facsimile
Constitution and Laws	Frequency Modulation
Executive Committee of the Board of Directors	Radio Receivers
Membership	Radio Wave Propagation
New York Program	Standards
Nominations	Symbols
Papers	Television
Public Relations	Transmitters and Antennas
Sections	
Tellers	

These committees shall be advisory to the Board of Directors on those matters which are reasonably described by the committee names.

SEC. 46—The Membership Committee shall include the Secretary of each Section, *ex-officio*.

SEC. 47—The Sections Committee shall include the Chairman of each Section, *ex-officio*.

SEC. 48—The Appointments Committee shall be appointed by the Board of Directors at its regular November meeting. Its membership shall be chosen from the continuing and newly elected members of the Board of Directors. At least fourteen days before the next annual meeting of the Board of Directors, the Appointments Committee shall mail to the members of the new Board of Directors a list of candidates for the offices of Secretary, Treasurer, Editor, and Appointed Directors, and Chairmen and members of the Awards, Constitution and Laws, Executive, Nominations, and Tellers Committees.

SEC. 49—The Executive Committee shall recommend to the Board of Directors candidates for all standing committees except the Appointments, Awards, Constitution and Laws, Executive, Nominations, and Tellers Committees.

SEC. 50—The President, the Secretary, the Treasurer, the Editor, and at least two other members of the Board of Directors shall comprise the Executive Committee. The President shall be chairman, the Treasurer shall be vice chairman, and the Secretary shall be secretary of the Executive Committee.

SEC. 51—The President, with the consent of the Board of Directors is authorized to appoint teachers of science or engineering who are Institute members as Institute Representatives. Each such Institute Representative is charged with promoting the welfare of the Institute at his school, particularly in matters relating to Student membership.

SEC. 52—The Board of Directors may appoint representatives of the Institute on joint committees, boards, and other local, national, and international bodies.

PUBLICATIONS

SEC. 53—The Secretary is authorized to receive annual subscriptions to the monthly PROCEEDINGS at the rate of ten (\$10.00) dollars per annum with an extra postage charge when the bulk rate of postage does not apply. A discount of fifty per cent from the subscription price of ten (\$10.00) dollars will be allowed to colleges and public libraries upon direct subscription to Institute headquarters. Members, publishers, and subscription agencies may be allowed a discount of twenty-five per cent.

SEC. 54—The price of a single annual subscription to the PROCEEDINGS for a Fellow, Member, or Associate shall be \$5.00, to be included in his annual dues as specified in Article IV of the Constitution.

SEC. 55—The price of copies of the PROCEEDINGS supplied to a newly admitted Fellow, Member, or Associate in advance of the period for which dues are payable shall be included in his entrance fee which is specified in Article IV of the Constitution.

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The Institute of Radio Engineers

Incorporated August 23, 1913

CONSTITUTION FOR SECTIONS

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 Bylaws 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 co-operation 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 be set by the Board of Directors, and may be enlarged, reduced, or otherwise altered by the Board at any time.

ARTICLE IV

DUES

SEC. 1—There shall be no Section dues.

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 contribution from the membership of the Section. A unanimous vote of the Executive Committee is required before such a request may be made.

SEC. 4—The Section may require nonmembers who wish to be placed on the mailing list for notices to pay in advance for the estimated cost of such notices.

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 Bylaws, 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 nominations 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 Bylaws.

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 Bylaws.

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 Bylaws to this Constitution may be adopted by a two-thirds vote of the Section provided they are consonant with the Constitution and Bylaws of the Institute and this Con-

stitution. A copy of these Bylaws 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.

Section	Month
Atlanta	January
Baltimore	November
Boston	December
Buenos Aires	May
Buffalo-Niagara	June
Chicago	December
Cincinnati	December
Cleveland	December
Connecticut Valley	Last regular meeting of calendar year
Dallas-Fort Worth	December
Detroit	December
Emporium	December
Indianapolis	May
Kansas City	April
Los Angeles	December
Montreal	April
Philadelphia	June
Pittsburgh	May
Portland	January
Rochester	Last spring meeting
St. Louis	May
San Francisco	June
Seattle	December
Toronto	May
Twin Cities	May
Washington	December

INDEX TO SECTION CONSTITUTION AND BYLAWS

Roman numerals refer to Articles and arabic numerals to Sections

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Use these cards for sending in the names of persons who may be interested in membership in the Institute

Name

Address

I believe the individual named above may be interested in membership in the Institute of Radio Engineers.

Signature

You may use my name in writing to him. ☐ Yes ☐ No

Please send me some additional cards. ☐

Name

Address

I believe the individual named above may be interested in membership in the Institute of Radio Engineers.

Signature

You may use my name in writing to him. ☐ Yes ☐ No

Please send me some additional cards. ☐

Name

Address

I believe the individual named above may be interested in membership in the Institute of Radio Engineers.

Signature

You may use my name in writing to him. ☐ Yes ☐ No

Please send me some additional cards. ☐

The

Membership Committee

Would appreciate

The name

And address

Of anyone

Not listed

In this directory

Who may be

Interested in

Membership in

The Institute of

Radio Engineers



BUSINESS REPLY CARD
First Class Permit No. 1332
Sec. 510, P. L. & R., New York, N.Y.

Institute of Radio Engineers
330 West 42nd Street
New York, N.Y.

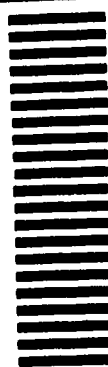
No
Postage Stamp
Necessary
If mailed in the
United States



BUSINESS REPLY CARD
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Sec. 510, P. L. & R., New York, N.Y.

Institute of Radio Engineers
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New York, N.Y.

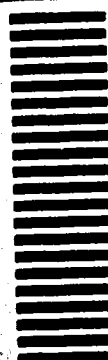
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United States



The
Institute is
Especially valuable
To its members in
Wartime
Because of
Up-to-date
Technical
Papers
Published
Monthly in
The PROCEEDINGS

CATALOG *of* MEMBERSHIP

Arranged Alphabetically and Geographically

NOTE

The following list of membership is divided into four sections; the first contains an alphabetical list of all Fellows and the second gives a similar list of all Members. The third section contains an alphabetical list of members of the Institute of all grades but Student; the last comprises a geographical list of members. In the general alphabetical portion, the letter and date immediately following the member's name indicate the grade of membership and date of election. Additional notations indicate transfers to other grades. The meaning of the symbols is as follows:

- (F) Fellow
- (M) Member
- (†A) Voting Associate
- (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.

These lists contain the names of all members on record as of December 1, 1941, and newly elected members whose memberships have been completed by January 20, 1942. The data listed for each member have been corrected to March 20, 1942.

The number of listings for each grade of membership is as follows:

Fellows	174
Members	770
Voting Associates	3077
Associates	2360
Juniors	48
Total	6429

FELLOWS

A
Acheson, M. A.
Alexanderson, E. F. W.
Anderson, C. N.
Appleton, E. V.
Armstrong, E. H.
Ashbridge, N.
Austin, A. O.

B
Bailey, A.
Baker, W. R. G.
Balch, J. A.
Ballantine, S.
Barrow, W. L.
Barton, F. S.
Batsel, M. C.
Behr, F. J.
Bennett, E.
Beverage, H. H.
Bishop, H.
Blackwell, O. B.
Bown, R.
Brown, G. H.
Builder, G.
Burke, C. T.

C
Cady, W. G.
Carter, E. F.
Chaffee, E. L.
Chamberlain, A. B.
Chubb, L. W.
Clapp, J. K.
Clement, L. M.
Cohen, L.
Colpitts, E. H.
Cook, E. D.
Cosentino, A. T.
Craven, T. A. M.
Cutting, F.

D
DeForest, L.
Dellinger, J. H.
Deloraine, E. M.
Diehl, W. F.
Dorsey, H. G.
Dubilier, W.
Dumont, A. B.
Dunn, G.

E
Eastham, M.
Eastman, A. V.
Edwards, C. P.
Ehret, C. D.
Einhoven, W. F.
Elwell, C. F.
Englund, C. R.
Engstrom, E. W.
Espenschied, L.
Evans, P. H.
Everitt, W. L.

F
Farnsworth, P. T.
Farrand, C. L.
Farrington, J. F.
Fisk, E. T.

Friis, H. T.
Fuller, L. F.

G
Gill, A. J.
Gillett, G. D.
Goldsmith, A. N.
Graham, V. M.
Greaves, V. F.
Green, A. L.
Gustafson, G. E.
Guy, R. F.

H
Hackbush, R. A.
Hanson, O. B.
Hartley, R. V. L.
Hayes, L. W.
Hazelline, A.
Heintz, R. M.
Heising, R. A.
Hill, G.
Hinnert, F. A.
Hogan, J. V. L.
Horle, L. C. F.
Horn, C. W.
Horton, J. W.
Hull, L. M.
Hund, A.

J
Jansky, C. M., Jr.
Jarvis, K. W.
Jett, E. K.
Jewett, F. B.
Jolliffe, C. B.

K
Kaar, I. J.
Karplus, E.
Kelly, M. J.
Kenrick, G. W.
Knowles, H. S.
Kolster, F. A.

L
Lack, F. R.
Lamson, H. W.
Langley, R. H.
Lee, A. G.
Lehde, P. E.
Lindsay, W. W., Jr.
Little, D. G.
Llewellyn, F. B.
Loughlin, W. D.

M
MacKeown, S. S.
Maloff, I. G.
Manson, R. H.
Marriott, R. H.
Mason, W. P.
Mayer, E. E.
McCutchen, B. S.
McDonald, A. S.
McElroy, P. K.
McMichael, L.
McNicol, D.
Meissner, A.
Meissner, B. F.
Miller, J. M.
Mills, J.
Minton, J. P.
Murray, A. F.

N
Nelson, E. L.

O
Oswald, A. A.

P
Pacent, L. G.
Pannill, C. J.
Peterson, H. O.
Pickard, G. W.
Pierce, G. W.
Polkinghorn, F. A.
Potter, R. K.
Pratt, H.
Pressley, J. H.

R
Ranger, R. H.
Reoch, A. E.
Rice, C. W.
Richmond, H. B.
Roberts, W. V. B.
Royden, G. T.
Rush, W. A.
Ryan, F. M.

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T
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Terrell, W. D.
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Turner, H. M.

U
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Van der Pol, B.
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ZANDONINI, ELIZABETH M. (A'28), Assistant, Radio Section, National Bureau of Standards, Washington, D.C. Mail: 3635 Everett St., N.W., Washington, D.C.

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ZEHR, NICHOLAS J. (A'27), Plant Super-

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ZEIDLICK, WILLIAM J. (A'29), Service Engineer, Allied Service Corporation, 3024 S. Harwood, Dallas, Tex. Mail: 6034 McCommas, Dallas, Tex.

ZEIGLER, B. F., JR. (A'40), 1517 Bella Vista Dr., Dallas, Tex.

ZEIGER, LOUIS B. (A'30), Electrical Engineer, 44 Beaver St., New York, N.Y. Mail: Simplex Electric Products Company, 4515-12 Ave., Brooklyn, N.Y.

ZEILE, MAXWELL C. (A'39), Radio and Instrument Engineer, Compania Standard Electric Argentina, Cangallo 1286, Buenos Aires, Argentina.

ZELT, RAYMOND J. (A'38), Glass Blower, Hygrade Sylvania Corporation, Emporium, Pa. Mail: 324 W. Fourth St., Emporium, Pa.

ZENDER, RAYMOND G. (A'35), Sales Manager; In charge of Engineering, Lenz Electric Manufacturing Company, 1218 N. Marion St., Oak Park, Ill.

ZENNECK, JONATHAN A. W. (A'13-F'15), Professor of Experimental Physics, Institute of Technology, Munich, Germany. Mail: Georgenstr. 9, Munich, Germany.

ZENTGRAF, JOHN A., JR. (A'32), 2747 Morris Rd., Ardmore, Pa.

ZERN, REBER T. (A'30), Instructor in Electrical Engineering, Drexel Institute of Technology, Philadelphia, Pa. Mail: R.D. 1, Norristown, Pa.

ZIEGLER, WILLIAM (A'37), Instructor, Radio Communications, National Schools, 4000 S. Figueroa, Los Angeles, Calif. Mail: 3846 S. Van Ness Ave., Los Angeles, Calif.

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ZIMMERMANN, HENRY J. (A'39), Assistant in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. Mail: M.I.T., Graduate House, Cambridge, Mass.

ZITZMAN, KENNETH F. (S'39-A'40), Captain, Signal Corps, U. S. Army, Camp Jackson, Columbia, S.C.

ZOSCHKE, JACK H. (A'40), 447 N. Beville Ave., Indianapolis, Ind.

ZOTTU, PAUL D. (A'39), Chief Radio Engineer, Thermal Engineering Corporation, 121 S. 15 St., Richmond, Va.

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ZVORIST, HERBERT (A'42), Instructor in Radio Television, Television Training Institute, 480 Lexington Ave., New York, N.Y. Mail: 328 W. 101 St., New York, N.Y.

ZWALD, JOHN J. (A'37), 235 E. Fifth St., Emporium, Pa.

ZWICK, GEORGE (S'40-A'41), Junior Electrical Engineer, Navy Department, New York Navy Yard, Brooklyn, N.Y. Mail: 63 Leroy St., New York, N.Y.

ZWORYKIN, VALDIR K. (M'38-F'38), Associate Director of Research, Electronic Research Laboratory, RCA Manufacturing Company, Camden, N.J.

ZYGMUNT, HENRY J. (A'40), Engineer, Union Switch and Signal Company, Swissvale, Pa. Mail: 201 Talbot Ave., Braddock, Pa.

CATALOG OF MEMBERSHIP

The following list gives in geographical order the names of all members except those of Student grade as of December 1, 1941. There have been added the names of newly elected members as of January 20, 1942.

UNITED STATES

ALABAMA

Auburn
Darling, W. (A)

Birmingham
Bell, J. C. (A)
Carpenter, L. B. (A)

Leighton
McCoy, J. H. (A)

Maxwell Field
Morris, G. W. (A)

Mobile
Rackie, E. E. (A)

Montgomery
Johnson, H. R. (A)

ARIZONA

Kingman
Wallace, P. H. (A)

Phoenix
Edmonds, S. C. (A)

Window Rock
Schmitz, W. (A)

Winslow
Dargie, D. (A)

ARKANSAS

Batesville
Griffin, F. T. (A)

Blytheville
Grimwood, F. O. (A)

Camp Robinson
Burns, C. P. (A)

Fayetteville
Hudson, P. K. (A)

Little Rock
Tracy, K. F. (A)

Texarkana
Mims, M. P. (A)
Ott, J. H. (A)

CALIFORNIA

Albany
Anson, C. T. (A)

Alhambra
Cary, H. H. (A)
Richey, F. R. (A)

Allandale
Hull, R. W. (A)
Johnson, P. F. (M)

Anaheim
Howard, L. W. (A)

Arcadia
Blasier, H. E. (A)
Jones, J. G. (A)

Atherton
Helwig, N. C. (A)

Azusa
Thomson, B., Jr. (A)

Baldwin Park
Martin, O. F. (A)

Benicia
Sternke, E. C. (A)

Berkeley
Anderson, W. A. (A)
Cattell, G. W. (A)
Davis, D. D. (A)
Glessner, J. M. (A)
Greaves, G. L. (A)
Haubrook, F. W. (A)
Jones, F. C. (A)
Ogg, R. D. (A)
Pettit, J. M. (A)
Procter, E. N. (A)
Rektor, E. M. (A)
Reukema, L. E. (A)
Rice, A. R. (A)
Scott, H. J. (M)
Sleeper, G. E., Jr. (A)

Beverly Hills

Barnett, A. H. (A)
Hansen, E. H. (M)
Miller, B. F. (A)
Sigmon, L. C. (A)
Torian, R. B. (A)
Winchell, R. W. (A)
Wolcott, C. F. (M)

Bishop

Rudolph, E. (A)

Bollinas

Slater, F. R. (A)
Tanck, H. (A)
Taylor, H. A. (A)

Buena Park

Tokar, G. (A)

Burbank

Brockway, D. C. (A)
Clark, J. H. (A)
Everett, F. A. M. (A)
Goette, C. A. (A)
Goldsmith, L. T. (A)
Hargens, C. W. III (A)
Wainwright, S. F. (A)
Warne, V. J. (A)
Weatherford, R. V. (A)

Burlingame

Forest, H. W. (A)

Carlsbad

Hogg, W. S., Jr. (M)

Coalinga

Buckley, M., Jr. (A)

Concord

Wich, J. A. (A)

Coronado

Garard, E. A. (A)
Grimes, W. F. (A)
Hartig, H. E. (M)

Covina

Finch, T., Jr. (A)

Culver City

Burns, G. A. (A)

Cupertino

Gillmeister, F. W. (A)

Dixon

Ellis, W. G. (A)
Love, B. E. (A)

East San Diego

Cassidy, B. F. R. (A)

Eureka

Olson, A. E. (A)
Rambo, W. R. (A)

Fair Oaks

Powell, L. H. (A)

Fresno

Clement, P. F. (A)
Dean, E. H. (A)
Schuler, R. M. (A)
Simpson, H. J. (A)

Glendale

Guest, J. W. (A)
Kennedy, M. E. (A)
Koerner, C. T. (A)
Leslie, D. M. (A)
Newcomb, R. (A)
Read, G. W. (A)
Seoville, R. R. (A)
Wright, D. (A)

Hawthorne

Butler, A. G. (A)

Hermosa Beach

Peery, H. G. (A)

Hollywood

Albin, F. G. (A)
Baba, A. (A)
Boggs, C. A. (A)
Brooke, R. O. (A)
Bowman, L. H. (A)
Culley, L. D. (A)
Denchaud, R. G. (A)
Greene, P. A. (M)
Ireland, F. (M)
Kreuzer, B. (A)

Landsberg, K. U. (A)

Lubcke, H. R. (M)
McFarlane, M. D. (A)
Moore, M. E. (A)
Moore, R. M. (A)
Mueller, W. A. (A)
Neely, N. B. (A)
Rabinoff, C. V. (A)
Radom, S. R. (A)
Sawyer, G. E. (A)
Saxton, A. H. (A)
Schuetz, R. F. (M)
Stark, H. P. (A)
Strothers, H. (A)

Huntington Beach

Wood, R. A. (A)

Huntington Park

Griffith, M. H. (A)
Grigg, J. W. (A)
Julien, I. F. (M)
Sandiford, P. L., Jr. (A)

Inglewood

Curan, G. W. (A)
Rogers, G. L. (J)
Weissmantel, F. A. (A)

Inverness

Moorhead, G. H. (A)

Jackson

Van Thiel, J. V. (A)

La Canada

Benioff, H. (A)
Larter, T. C., Jr. (J)

La Crescenta

Knox, D. N. (A)

Larkspur

Cherry, C. E. (A)

Long Beach

Bernstein, H. E. (A)
Bradshaw, R. C. (A)
Farrand, C. E. (A)
Hock, J. W. (A)
Tapp, J. E. (A)
Wallace, D. C. (A)
Weston, L. B. (A)
Williams, M. A. (A)

Los Altos

Miller, H. C. (A)

Los Angeles

Arne, R. E. (A)
Astorga, L. T. (A)
Barnard, R. E. (A)
Bechtold, I. C. (A)
Bierbach, S. (A)
Bredend, W. (A)
Brittain, L. B. (A)
Brookway, W. W. (A)
Bryan, H. E. (A)
Bryan, W. J. (A)
Bucknell, W. H. (A)
Bullock, R. E. (A)
Caldwell, P. G. (A)
Chesney, A. P. (A)
Chew, T. W. (A)
Cole, F. H., Jr. (A)
Cook, R. O. (A)
Cunningham, E. W. (A)
Dally, C. R. (A)
Dana, J. J. (A)
De Forest, L. F. (A)
Dockendorf, J. P. (A)
Dooley, P. (A)
Edgerton, A. K. (A)
Ellsworth, A. R. (A)
French, J. B. (A)
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Los Gatos

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Lynwood

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Manhattan Beach

Birkenhead, W. (A)

Menlo Park

Sharp, J. M. (A)

Millbrae

McCullough, J. A. (A)

Mill Valley

Behringer, D. S. (A)

Modesto

Bates, W. H., Jr. (A)

Monterey

Pickles, S. (A)

Moraga

Tibbetts, D. R. (A)

Mountain View

Macono, F. J. (A)

Napa

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North Hollywood

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Crabb, R. C. (A)
Downey, C. E. (A)
Ferry, T. R. (A)

Katz, L. (J)

Kennedy, F. M. (M)
Kiernan, E. F. (A)
Klein, W. S. (A)
Kluge, M. E. (A)
Knowlton, C. S. (A)
Krantz, C. H. (A)
La Violette, R. F. (A)
Lerza, F. E. (A)
Lindsay, W. W., Jr. (F)
Manderfeld, E. C. (A)
McCulloch, C. B. (A)
McKnight, C. B. (A)
Metcalfe, D. E. (A)
Miller, G. B. (A)
Nash, A. W. (A)
Nelson, T. (A)
Nunan, J. R. (A)
O'Connor, A. P. (A)
Palmquist, J. F. (A)
Partridge, A. J. (A)
Paul, B. (A)
Richards, W. S. (A)
Rieber, F. (M)
Robinet, D. B. (A)
Schreiber, E. H. (M)
Sepmeyer, L. W. (A)
Sherman, H. T. (A)
Siewers, E. S. (A)
Silent, H. C. (A)
Slyfield, C. O. (A)
Smith, C. J. (A)
Smith, J. L. (A)
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Sumerlin, W. T. (A)
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Tomoda, F. J. (A)
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Forster, A. G. (A)
Gibson, H. D. (A)
Gilbert, R. M. (A)
Holman, W. A. (A)
Kellogg, W. D. (A)
Lee, L. K. (A)
Mangelsdorf, F. B. E. (A)
Martin, J. B. (A)
Miller, G. R. (A)
Paul, G. S. (A)
Penther, C. J. (A)
Rarer, E. B. (A)
Schlueter, E. A. (A)
Speir, F. (A)
Summers, J. W. (A)
Urvic, W. C. (A)
Wild, S. J. (A)
Wahlgren, W. W. (A)

Pacific Beach

Macy, S. A. (A)
Stewart, C. (A)

Palo Alto

Barton, S. N. (A)
Bauer, B. (A)
Behr, F. J. (F)
Buss, R. R. (A)
Christensen, P. C. (A)
Elliott, H. F. (M)
Fisher, G. (M)
Fuller, L. F. (F)
Girdner, W. I. (A)
Hewlett, W. R. (A)
Kaar, J. M. (A)
Learned, V. R. (A)
Mac Quivey, D. R. (A)
Melnico, S. A. (A)
Overacker, H. (A)
Packard, D. (A)
Tinney, F. B. (A)

Pasadena

Blatterman, H. L. (A)
Hopkins, R. E. (A)
Hopper, F. L. (A)
Howes, E. T. (A)
MacKown, S. S. (F)
Nikirk, T. E. (A)
Phillips, V. (A)
Pickering, W. H. (A)
Poole, J. H., Jr. (A)
Rifenbergh, C. M. (A)
Simmons, E. Jr. (A)
Tejada, L. H. (A)
Washburn, H. W. (A)
Wolfe, H. (A)

Playa del Rey

Woods, W. A. (A)

Piedmont

Lasky, P. G. (A)

Point Reyes

Reid, I. H. (A)

Redwood City

Brewer, M. S. (A)
Littion, C. V. (A)
Muchmore, R. (A)

Richmond

Low, C. Jr. (A)
Mann, D. O. (A)
Watson, H. M. (A)

Roscoe

Winchel, H. T. (A)

Sacramento

Barnes, G. W. (A)
Gallay, H. (A)
Miller, J. R. (A)
Naschke, E. S. (A)
Oates, T. L. (A)
White, N. N. (A)

St. Helena

Van Groos, J. V. (A)

Salinas

Broderick, L. V. (A)

San Anselmo

Walsh, C. E. (A)

San Bernardino

Sampson, R. T. (A)

DISTRICT OF COLUMBIA

Washington (cont.)

Jackson, W. E. (M)
 Jacobs, T. B. (A)
 James, C. T. (A)
 Jansky, C. M., Jr. (F)
 Johnson, A. E. (A)
 Jowdy, M. (A)
 Kaplan, R. (A)
 Katz, M. (A)
 Kaufman, J. (M)
 Kear, F. G. (M)
 Kelly, C. M., Jr. (A)
 Kennedy, R. L. (A)
 Kesseler, K. S. (A)
 Kezer, C. F. (A)
 Kitchell, O. D. (A)
 Kinley, C. B. (A)
 Kohler, E. Jr. (A)
 Kohler, H. W. (A)
 Kraus, J. D. (A)
 Lamar, R. E. (A)
 Lapham, E. G. (A)
 Larsen, P. J. (M)
 Lent, W. C. (M)
 Leppert, M. L. (A)
 Lew, H. W. (A)
 Lewis, F. D. (A)
 Linger, R. A. (A)
 Link, J. H. (A)
 Lipscomb, J. L. (A)
 Loucks, I. H. (A)
 Loucks, P. G. (A)
 Lovejoy, E. W. (M)
 Lowe, D. M. (A)
 Lundstedt, C. V. (A)
 Lutz, S. G. (M)
 Magnusson, P. C. (A)
 Marriner, A. W. (A)
 Marsh, C. O., Jr. (A)
 Mavrogenis, A. (A)
 McComb, C. T. (A)
 McDowell, R. B. (A)
 McFolien, R. L. (A)
 McGreer, W. J. (A)
 McKesson, L. J. (A)
 McNary, J. C. (M)
 Meadows, L. A. (A)
 Miles, T. M. (A)
 Miles, P. D. (A)
 Miller, H. R. (A)
 Miller, J. M., Jr. (A)
 Miller, J. W. (A)
 Mirick, C. B. (M)
 Mitchell, F. T., Jr. (A)
 Moody, W. B. (M)
 Moran, W. M. (A)
 Morse, W. R. (A)
 Munro, G. H. (A)
 Murray, A. F. (F)
 Nakamura, T. (M)
 Neely, G. M. (A)
 Nicholson, T. (A)
 Norton, K. A. (M)
 Ostaf, W. A. (A)
 Ould, N. S. (A)
 Page, R. M. (A)
 Palevsky, H. (A)
 Pappas, C. H. (A)
 Parker, C. V. (A)
 Patton, W. R. (A)
 Petterson, W. N., Jr. (A)
 Phelps, F. P. (A)
 Pickard, R. W. (A)
 Pierce, J. F. (A)
 Potts, D. C. (A)
 Powell, E. L. (M)
 Powles, F. T. (A)
 Rannett, J. E. M. (A)
 Rau, D. S. (A)
 Reed, O. W. B., Jr. (A)
 Remmlin, C. D. (A)
 Reynolds, W. W. (A)
 Rietzke, E. H. (M)
 Robbins, L. G. (A)
 Rogers, J. G. (A)
 Rohrich, G. J. (A)
 Rothrock, H. B. (A)
 Salzberg, B. (M)
 Sashoff, S. P. (M)
 Schleter, G. C. (A)
 Schooley, A. H. (A)
 Seaton, S. L. (A)
 Seddon, J. C. (A)
 Segal, P. M. (M)
 Selvidge, I. J. (A)
 Silberger, R. (A)
 Silling, P. F. (M)
 Slavin, S. (A)
 Smecby, L. C. (M)
 Smith, C. H., Jr. (A)
 Smith, E. H. (A)
 Smith, H. A. (A)
 Smith, J. E. (M)
 Smith, J. W. (A)
 Smith, N. (A)
 Sprayberry, F. L. (A)
 Stahl, B. E. (A)
 Stair, R. (A)
 Stewart, H. E. (A)

Stewart, R. B. (M)
 Stoops, C. W. (A)
 Stroebel, J. C. (M)
 Strong, J. M. (A)
 Struthers, F. W. (A)
 Stuart, D. M. (A)
 Swarm, H. M. (A)
 Taylor, A. H. (A)
 Tenenbaum, F. (A)
 Terrell, W. D. (F)
 Teunisson, J. F. (A)
 Tharp, L. D. (A)
 Thomson, J. F. (A)
 Tibbals, L. (A)
 Ticknor, R. (A)
 Triplett, W. R. (A)
 Truett, E. V. (A)
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 Vann, I. M., Jr. (A)
 Van Voorst, M. (A)
 Varela, A. A. (A)
 Veilleux, T. A. (A)
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 Wright, J. W. (A)
 Wright, R. B. (A)
 Yager, J. C. (A)
 Zandonini, E. M. (A)

FLORIDA

Bradenton
 Lampkin, G. F. (A)
 Coconut Grove
 Michelfelder, L. E. (A)
 Coral Gables
 Epperson, W. H. (A)
 Rogers, G. F. (A)
 Shattuck, J. C. (A)
 Vogt, E. J. (A)
 Daytona Beach
 Mullally, W. J. (A)
 Drew Field
 Matthews, G. D. (A)
 Elgin Field
 Leonard, C. G. (A)
 Fort Lauderdale
 Bassett, R. E., Jr. (A)
 Stewart, J. L. (A)
 Fort Pierce
 Taylor, J. C. (A)
 Gainesville
 Craig, P. H. (A)
 Moreno, C. A. (A)
 Weil, J. (M)
 Hialeah
 Whitney, S. D. (A)
 Jacksonville
 Boyer, L. R. (A)
 MacDill Field
 Brown, W. E. (A)
 Miami
 Bliss, A. O. (A)
 Borton, F. W. (A)
 Haeger, J. R. (A)
 Leap, G. A. (A)
 McKee, C. W. (A)
 Miedke, R. C. (A)
 Roberts, F. G., Jr. (A)
 Sherry, F. E., Jr. (A)
 Miami Springs
 Mehrling, H. W. (A)
 Murr, V. E. (A)
 Williams, W. D. (A)
 Opa Locka
 Allston, W. F. (A)
 Orlando
 Adams, I. D. (A)
 Palm Beach
 Hollis, R. (A)
 Pensacola
 Von Dohlen, H. W., Jr. (A)

Saint Augustine
 Bernhard, J. E., Jr. (A)
 Saint Petersburg
 Combs, B. B., Jr. (A)
 Jensen, J. O. (A)
 Link, J. (A)
 Randles, W. C. (A)
 Tampa
 Pearson, R. V. (A)
 Tellman, H. A. (A)
 West Palm Beach
 Eberhard, E. (A)
 Peterson, S. (A)
 Schuster, H. E. (A)
 Weber, B. W. (A)

GEORGIA

Albany
 Davis, J. C. (A)
 Fariss, G. W. (J)
 Arlington
 Brown, A. L. (A)
 Atlanta
 Akerman, B. (A)
 Bangs, P. C. (A)
 Burke, J. M. (A)
 Croy, J. R. (A)
 Dasher, B. J. (A)
 Daugherty, C. F. (A)
 Fausett, F. (M)
 Friedland, M. S. (A)
 Hanson, H. C. (A)
 Holey, W. J. (A)
 Honnell, M. A. (A)
 Howard, G. M. (A)
 Jones, A. L. (A)
 Mower, N. L. (A)
 Reed, P. B. (A)
 Reesor, D. A. (A)
 Reid, H. L. (A)
 Rosekrans, P. (A)
 Rossellot, G. A. (A)
 Smith, G. M. (A)
 Spittler, L. J. (A)
 Thornton, H. P. (A)
 Waldo, G. V. (A)

Augusta
 Fuqua, J. B. (A)
 Columbus
 Adamson, H. D. (A)
 Siddle, W. T. (A)
 Decatur
 Comer, J. M., Jr. (A)
 Shropshire, A. W. (A)
 Hapeville
 Weinberg, B. L. (A)
 Macon
 Rankin, G. P. (A)
 Savannah
 Gray, C. M. (A)
 Hackman, E. H. (A)
 Thompson, M. E. (A)
 Statesboro
 Blitch, J. D. (A)
 IDAHO
 American Falls
 Lloyd, L. (A)
 Boise
 Bradford, W. O. (A)
 Caldwell
 Harland, R. Jr. (A)
 Lewiston
 Byrne, M. E. (A)
 Moscow
 Carssow, C. G. (A)
 Freeman, K. L. (A)
 Hattrop, H. E. (A)
 Hull, R. H. (A)
 Twin Falls
 Cox, F. V. (A)

ILLINOIS

Algonquin
 Peter, B. K. (A)
 Arlington Heights
 Dymond, C. (A)
 Aurora
 Burch, L. (A)
 Belleville
 Alley, C. L. (A)
 Anderson, J. S. (A)
 Ayres, W. R. (A)
 Belles, H. W. (A)

Bernhardt, E. C. (A)
 Gamara, N. J. (A)
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 Winter, H. A. (A)
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 Marik, E. (A)
 Bensenville
 Breiter, W. J. (A)
 Berwyn
 Burns, E. E. (A)
 Glozer, A. Jr. (A)
 Prentiss, J. G. (A)
 Schnell, W. J. (A)
 Brookfield
 Hajack, A. F. (A)
 Canton
 Ingersoll, W. P. (A)
 Carlinville
 Morse, T. M. (A)
 Champaign
 Ebel, A. J. (A)

Chicago
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 Adams, J. J. (A)
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Franklin Park
 Weber, R. I. (A)
 Freeport
 O'Connell, G. (A)
 Glenview
 Carr, L. H. (A)
 Dunn, W. L. (M)
 Great Lakes
 Lien, C. E. (A)
 Penhollow, H. A. (A)
 Harrisburg
 Schonert, K. E. (A)
 Harvey
 Renne, H. S. (A)
 Highland Park
 Kramer, A. W. (A)
 Hinckley
 Jackson, W. C. (A)
 Hinsdale
 Dahl, E. A. (A)
 Doyle, E. J. (A)
 Jones, M. R. (A)

Chicago (cont.)
 Smythe, E. H. (M)
 Spiegel, G. W. (A)
 Stein, H. A. (A)
 Stone, C. H. (M)
 Storer, B. W. (A)
 Striker, G. O. (A)
 Streich, F. W. (A)
 Swanson, C. W. (A)
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 Taylor, E. H. (A)
 Thompson, S. T. (M)
 Thorson, W. G. (A)
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 Toy, T. G. (A)
 Tregidga, A. C. (A)
 Trowbridge, F. (A)
 Troxel, R. E. (A)
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 Ulrich, C. W. (A)
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Hansen, L. S. (A)
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 Kuskack, W. P. (A)
 Lair, J. R. (A)
 Lange, W. W. (A)
 Leidy, W. J. (A)
 Levy, G. E. (A)
 Lorenzen, B. R. (A)
 Lutes, R. K. (A)
 Luttgens, H. C. (A)
 Lytle, C. W. (A)
 Magnuski, H. (A)
 Manatt, J. C. (A)
 Marshall, C. E. (A)
 Martin, C. F. (A)
 Martin, G. I. (M)
 McCollum, H. J. (A)
 McGinley, J. C. (A)
 McKay, W. M. (A)
 Meinema, H. E. (A)
 Merrill, H. M. (A)
 Mesa, J. O. (A)
 Mittelmann, E. (A)
 Monderer, B. A. (A)
 Monlon, L. (A)
 Montgomery, B. E. (A)
 Morris, L. P. (A)
 Mueller, E. L. (A)
 O'Connell, G. (A)
 Robinson, G. D. (A)
 Wendt, R. H. (A)

Chicago (cont.)
 Hansen, L. S. (A)
 Hansen, W. H. (A)
 Harris, S. G. (A)
 Hassel, K. E. (M)
 Haubrich, A. M. (A)
 Hauschild, J. P. (A)
 Hayes, H. D. (M)
 Heimark, H. M. (A)
 Henderson, A. B. (A)
 Herman, F. E. (A)
 Hermann, W. F. (A)
 Herrick, R. H. (M)
 Hirsch, C. J. (M)
 Hirszbant-Maciszewski, A. A

KANSAS

Topeka (cont.)

Cook, J. W. (A)
Glass, L. M. (A)
Troeglich, K. (M)

Wichita

Pyle, K. W. (A)
Shire, L. E. (A)

KENTUCKY

Anchorage

Towner, O. W. (M)
Williams, L. A. (A)

Buechel

Henson, C. E. (A)

Covington

Fischer, R. E. (A)
Topmiller, C. H. (A)

Fort Thomas

Kolo, R. E. (A)

Fort Knox

Miller, G. N. (A)
Uhrhane, F. F. (A)

Lexington

Andrews, H. L. (A)
Doll, E. B. (A)
Helt, S. (A)

Louisville

Dickinson, T. M. (A)
Heick, B. K. (A)
Hudson, W. E. (A)
La Vieille, W. R. R. (A)
McGregor, R. B. (A)
Rubin, H. B. (A)
Russell, J. D. (A)
Summerford, de A. C. (A)

Owensboro

Bain, G. W. (A)
Callahan, G. F. (A)

LOUISIANA

Camp Livingston

Allen, H. E. (A)

Camp Polk

Hager, F. M., Jr. (A)

Crowley

Egan, D. G. (A)

New Orleans

Bloom, J. D., Jr. (A)
Daspi, J. I. (A)
Deiler, T. G. (M)
Du Treil, L. J. N. (M)
Fisher, B. A. (A)
Fletcher, E. S. (M)
Lehde, P. E. (F)
Meola, T. D. (A)
Nebe, H. G. (A)
Peirce, G. H. (A)
Pendergrass, F. L. (A)
Rountree, J. G., Jr. (A)
Todd, T. H. (A)
Vitter, A. L. (A)
Voegtlin, E. (A)

Shreveport

Garrett, E. D. (A)
Maddox, C. H. (A)

University

Parkinson, T. (A)

MAINE

Alfred Plummer, C. B. (A)

Bangor

Creamer, W. J. (A)
Lawson, N. H. (A)

Boothbay Harbor

Eames, A. M., Jr. (A)

Brunswick

Hammell, R. (A)
Kiebert, M. V., Jr. (M)
Little, N. C. (A)
Medrow, K. R. (A)
Morrison, E. D. (A)
Smith, C. A. (A)
Steber, W. C., Jr. (A)

Cape Elizabeth

Rodick, G. H. (A)

Fryeburg

Farnsworth, P. T. (F)

Orono

Blias, W. H. (A)

Portland

Collins, L. R. (A)
Hansen, E. (A)
Hodgkins, R. W. (A)

South Portland

Robbins, I. L. (A)

Waldoboro

Cooney, J. R. (A)

MARYLAND

Aberdeen

Apps, D. C. (A)
Hodge, A. H. (A)
Lieb, J. S. (A)

Annapolis

Arps, M. W. (A)
Ballou, W. H. (A)
Beaudoin, A. J. (A)
Bernard, W. B. (A)
Davis, D. (A)
Giet, G. R. (A)
Goodhue, W. W. (A)
Martin, C. A. (A)

Anneslie

Kreis, A. L. (A)

Arbutus

Kinsman, W. D. (A)

Baltimore

Albright, C. M., Jr. (A)
Allen, J. E. (A)
Barlow, E. P. (A)
Bassford, S. W., Jr. (A)
Bender, L. (M)
Bloomer, T. M. (A)
Blunt, A. F. (A)
Bohn, A. L. (A)
Brunner, R. R. (A)
Clement, E. M. (A)
Cooke, G. W. (A)
Craig, A. G. (A)
Davis, J. W. (A)
Eckels, A. E. (A)
Edwards, J. M. (A)
Edwards, R. B. (A)
Ellert, C. A. (A)
Epperson, W. (A)
Evans, W. C. (M)
Goldbach, A. C. (A)
Goodnow, R. P. (A)
Graef, R. P. (A)
Gregory, L. W. (A)
Gross, G. J. (A)
Gunter, F. B. (A)
Hamburger, F., Jr. (M)
Hammond, J. W. (A)
Healey, D. J., III (J)
Hill, G. H. (A)
Houston, G. P., III (A)
James, C. L. (A)
Jones, M. L. (A)
Kinn, T. P. (A)
Krebs, W. N. (A)
Lange, E. H. (A)
Little, D. G. (F)
London, C. (A)
McConnell, W. G. (A)
McFadden, H. W. (A)
Miller, C. P. (A)
Orem, E. A. (A)
Pariseau, R. G. (A)
Parker, A. P. (A)
Plummer, W. E. (M)
Pride, E. W. (A)
Rambo, S. I. (A)
Ranft, W. Q. (A)
Ridenour, W. S. (A)
Roder, C. C. (A)
Schultz, M. A. (A)
Sears, P. R. (A)
Sokoloff, P. W. (A)
Sterling, G. E. (M)
Stout, G. F. (A)
Taylor, M. (A)
Treuhart, M. (A)
Tuttle, L. (A)
Waldorf, S. K. (A)
Weant, C. H. (A)

LOUISIANA

Camp Livingston

Allen, H. E. (A)

Camp Polk

Hager, F. M., Jr. (A)

Crowley

Egan, D. G. (A)

New Orleans

Bloom, J. D., Jr. (A)
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Fletcher, E. S. (M)
Lehde, P. E. (F)
Meola, T. D. (A)
Nebe, H. G. (A)
Peirce, G. H. (A)
Pendergrass, F. L. (A)
Rountree, J. G., Jr. (A)
Todd, T. H. (A)
Vitter, A. L. (A)
Voegtlin, E. (A)

Shreveport

Garrett, E. D. (A)
Maddox, C. H. (A)

University

Parkinson, T. (A)

MAINE

Alfred Plummer, C. B. (A)

Bangor

Creamer, W. J. (A)
Lawson, N. H. (A)

Boothbay Harbor

Eames, A. M., Jr. (A)

Brunswick

Hammell, R. (A)
Kiebert, M. V., Jr. (M)
Little, N. C. (A)
Medrow, K. R. (A)
Morrison, E. D. (A)
Smith, C. A. (A)
Steber, W. C., Jr. (A)

Cape Elizabeth

Rodick, G. H. (A)

Fryeburg

Farnsworth, P. T. (F)

Orono

Blias, W. H. (A)

Portland

Collins, L. R. (A)
Hansen, E. (A)
Hodgkins, R. W. (A)

South Portland

Robbins, I. L. (A)

Fox, R. C. (A)

Hutcheson, J. A. (M)
Lee, R. (A)
Ley, G. S. (A)
Mabry, F. S. (A)
MacDonald, A. (A)
Nims, A. A., Jr. (A)
Rust, W. M. (A)
Singel, J. B. (A)
Whitney, A. (A)
Wilson, W. R. (A)

Cheltenham

Kane, J. M., Jr. (A)

Cheverly

Beggle, D. H. (A)
Larkin, G. G. (A)
Toth, E. (A)

College Park

Pear, C. B., Jr. (A)
Young, P. G. (A)

Cumberland

Becker, F. V. (A)

Edgewood Arsenal

Mirkin, M. (A)

Greenbelt

Weissbluth, M. (A)

Hyattsville

D'Acce, F. G. (A)
Greene, F. M. (A)
Lyons, H. H. (A)
Roake, W. C. (A)
Wightman, P. E. (A)

Laurel

Andersen, A. (A)

Lutherville

Davis, R. J. (A)

Mount Rainier

Kulikowski, E. F. (A)

Mount Washington

Harmon, R. N. (A)

Parkville

Rohner, A. J. (A)

Pasadena

Dent, W. U. (A)

Riderwood

Bradford, H. K. (A)

Riverdale

Wright, D. (A)

Ruxton

Humphrey, H. C. (A)
Meyerhoff, G. H. (A)

Severna Park

Koether, G. H., Jr. (A)

Silver Spring

Braun, C. M. (A)
Davies, G. L. (M)
Graham, H. U. (A)
Heatwole, E. P. (A)
Kennedy, E. D. (A)
Klink, G. J. (A)
Laker, E. F. (A)
McDonald, L. W. (A)
McKeel, P. D. (A)
Page, C. H. (A)
Poast, L. M. (A)
Quaintance, L. C. (A)
Rice, L. W. (A)
Schram, S. M., Jr. (A)
Sharpless, W. R. (A)
Snow, H. A. (A)
Tercell, R. (A)
Thomson, P. H. (M)

Stonewall

Kreager, P. H. (A)

Takoma Park

Adair, G. P. (A)
Ehrlich, S. B. (A)
Hardenbergh, R. H. (A)
Lindberg, C. L. (A)
Looney, H. C. (A)
Nelson, F. H. (A)

Towson

Abel, A. E. (A)
Brynes, K. (A)
Easton, A. (A)
Edgerly, A. H. (A)

Eltgroth, G. V. (A)

Frazier, R. K. (A)
Genera, V. A. (A)
Gittelman, A. (A)
Hauck, V. D. (M)
Hillard, W. P. (A)
Johnston, E. L. (A)
Jones, M. S. (A)
McNally, H. R., Jr. (A)
Sims, W. H., Jr. (A)
Stansfield, J. D. (A)
Thompson, K. J. (A)
Webb, W. L. (A)
Woodward, J. D. (A)

Wood Acres

Trafton, D. C. (A)

Woodlawn

Fischer, F. W. (A)
Madsen, C. J. (A)

Yorktowne Village

Geddes, B. D. (A)

MASSACHUSETTS

Arlington

Bacon, D. H. (A)
Cowie, R. J. (A)
Smullin, L. D. (A)

Arlington Heights

Lamson, H. W. (F)

Ashland

Muchow, A. J. (A)

Atlantic

Hcap, S. S. (A)

Auburndale

Gager, F. M. (A)
White, A. D. (A)

Bedford

Hammond, G. H. (A)

Belmont

Clayton, J. M. (M)
Cobine, J. D. (A)
Dolbear, B. L. (M)
Hildebrand, J. G., Jr. (A)
Hunt, F. V. (M)
Lane, H. M. (M)
McConnell, R. A. (A)
McElroy, P. K. (F)
Schuck, O. H. (A)
Woodward, R. H. (A)

Beverly

Biggs, O. H. (A)
Briggs, R. S. (A)
Dillaby, E. F. (A)
Porter, R. G. (A)
Webb, H. A. J. (A)

Boston

Barbour, C. W., Jr. (A)
Beakes, W. E. (M)
Cabot, G. E. (M)
Crandell, E. L. (A)
De Mars, P. A. (M)
Drisk, B. B. (A)
Fry, B. L. (A)
Garcia, S. C. (A)
Gurley, J. W. (A)
Hastings, T. M., Jr. (A)
Hayes, H. V. (A)
Henry, J. M. (A)
Longfellow, B. S. (A)
Mauran, J. (A)
Ober, R. (A)
Palmer, R. T. (A)
Pote, A. J. (A)
Putnam, J. P. (A)
Rines, D. (A)
Roberts, S. (A)
Rogers, W. S. (A)
Sloan, F. M. (A)
Tuller, W. G. (A)
Waite, S. (A)

Brighton

Griffith, B. W. (A)
Rappaport, M. (A)
Vacca, R. H. (A)
Wallace, G. S. (A)
Yurt, F. X. (A)

Brookline

Millman, J. (A)
Ready, W. A. (A)

Cambridge

Adams, K. (A)
Anderson, H. W. (A)
Barrow, W. L. (F)
Batchelder, L. (A)
Batchelor, J. C. (A)
Beranek, L. (A)
Blake, F. G., Jr. (A)
Bousquet, A. G. (M)
Bowles, E. L. (M)
Breazeale, W. M. (A)
Burke, C. T. (F)
Cady, C. A. (M)

Chaffee, E. L. (F)

Chu, L. J. (A)
Clapp, J. K. (F)
Cook, J. H. (A)
Cork, B. B. (A)
Crosby, C. (A)
Cutting, F. (F)
Dawes, H. H. (A)
Dubridge, L. A. (A)
Eastham, M. (F)
Easton, I. G. (A)
Friend, A. W. (M)
Gilman, M. A. (A)
Gray, T. S. (A)
Guillemin, E. A. (A)
Hall, A. C. (A)
Harris, H. (A)
Hickman, R. W. (A)
Hokanson, H. P. (A)
Hollingsworth, L. M. (A)
Howell, A. H. (A)
Hyde, D. C. (A)
James, C. W. (A)
Karpus, E. (F)
Kerr, D. E. (A)
King, R. W. P. (A)
Kuper, J. B. H. (A)
Lewis, G. A. (A)
Littlejohn, H. C. (A)
Lyman, F., Jr. (A)
Lyman, H. R. (A)
Mueller, C. W. (A)
Newburgh, H. (A)
Nottingham, W. B. (A)
Oliver, N. J. (A)
Peterson, A. P. G. (A)
Phillips, H. B. (M)
Pierce, G. W. (F)
Radford, W. H. (A)
Reitz, L. P., Jr. (A)
Richmond, H. B. (F)
Ruplenas, R. J. (A)
Sandorf, I. J. (A)
Scott, H. H. (M)
Shaw, H. S. (F)
Smith, M. T. (M)
Thiessen, A. E. (M)
Tucker, C. E. (M)
Tuttle, W. N. (A)
Walker, R. M. (M)
Wallman, H. (A)
Webster, W. C. (M)
Wheatland, D. P. (A)
Whitmer, R. M. (A)
Wiener, F. M. (A)
Wildes, K. L. (A)
Wimer, R. M. (A)
Worthen, C. E. (M)
Zimmermann, H. J. (A)

Canton

Geoghegan, E. D. A. (A)

Chestnut Hill

Dellenbaugh, F. S. (M)
Pitts, F. D. (A)

Chilmark

Hamilton, O. W. (A)

Concord

Sinclair, D. B. (M)

Dorchester

Brown, H. W. (A)
Clarke, R. S. (A)
Dufourd, A. J. (A)
Spiegel, L. (A)

Fairhaven

Kahn, L. (A)

Fall River

Bowen, H. C. (A)
Davenport, H. R. (A)

Fort Devens

Rosenman, L. (A)

Framingham

Combie, A. A. (A)

Gloucester

Hammond, J. H., Jr. (M)

Great Barrington

Barkley, H. F. (A)

Greenfield

Levin, P. S. (A)
Spates, J. L. (A)

Kingham

Elmore, J. H. (A)
Harris, C. C. (M)
Phelps, R. E. (A)
Pratt, F. (A)
Upp, R. V. (A)

Holliston

Garceau, L. (A)

Hyde Park

Vickerson, A. H. (A)

Jamaica Plain

Hanopol, L. (A)
Teachman, A. E. (A)

Kingston

Lawrance, R. B. (A)

Lexington

Chute, D. H. (A)
Hall, W. M. (A)
Ingalls, C. E. (A)
Pilkington, E. J. (A)

Lincoln

Beers, R. F. (A)

Longmeadow

MISSOURI

Joplin
Howell, P. N. (A)

Kansas City
Bishop, W. T., Jr. (A)
Curtis, C. V. (A)
Dillard, E. L. (A)
Esler, E. H. (A)
Foster, C. L. (A)
Fouts, A. L. (A)
Franklin, J. C. (M)
Fromm, W. E. (A)
Gaines, B. R. (A)
Gebhardt, P. B. (A)
Goldenberg, H. E. (A)
Hieronimus, T. G. (A)
Hlavaty, E. M. J. (A)
Holaday, D. F. (A)
Horrell, M. W. (A)
Jarrard, J. (A)
Jensen, L. J. (A)
Juddins, L. G. (A)
Krahl, K. (A)
Kurth, H. H. (A)
McDonnell, W. J. (A)
Melton, E. L. (A)
Morgan, H. K. (M)
Petersen, E. L. (A)
Russell, H. E. (A)
Salzer, C. B. (A)
Schilling, J. T. (A)
Schwerin, E. B. (A)
Shirling, G. K. (A)
Stuhman, A. P. (A)
Taylor, G. L. (M)
Tschannen, R. F. (A)
Van Gundy, C. G. (A)
Wilcox, J. V. (M)
Wolfskill, R. F. (A)
Woodward, M. W. (A)

Liberty
Whitney, S. D. (A)Longwood
Robb, J. D. (A)Moberly
Lewis, E. W. (A)Normandy
Murty, E. H. (A)
Volk, J. A. (A)Oakland
Seielstad, H. D. (A)Richmond
Dasham, R. (A)Richmond Heights
Cummings, G. M. (A)Rolla
Frame, F. H. (A)Saint Joseph
Damm, F. (A)
Koch, J. W. (A)
White, R. N. (A)Saint Louis
Cloyd, L. W. (A)
Daly, H. H. (A)
Groetke, E. A. (A)
Hayman, W. H. (A)
Johnson, L. R. (A)
Potter, C. A., Jr. (J)
Schwarz, C. J. (A)
Shepard, W. D. (A)
Walters, L. R. (A)
Yarger, C. R. (A)
Zehr, N. J. (A)Springfield
Barker, F. L. (A)
Bauer, F. (A)
Clay, W. A. (A)
Moss, T. L. (A)
Simpson, O. D. (A)University City
Glasgow, R. S. (M)
Racen, F. (A)
Shotliff, L. A. (A)Webster Groves
Fowler, N. B. (M)
McCurdy, R. G. (A)

MONTANA

Anaconda
Antonich, P. L. (A)Bozeman
Fiedler, G. J. (A)Butte
Beardslee, C. E. (A)
Blankmeyer, W. H. (A)
Heister, C. F. (A)
Howe, R. H. (A)
Jones, J. P. (A)
Pentilla, W. (A)Glendive
Wainwright, R. M. (A)Great Falls
Brodie, A. H. (A)
Lopuch, A. J. (A)
Parker, J. E. (A)Kalispell
Gorman, D. P. (A)

NEBRASKA

Grand Island
Buchanan, O. R. (A)
Jensen, G. L. (A)
Light, L. (A)
Price, M. A. (A)
Rowe, V. G. (A)
Wickenkamp, F. W. (A)Kearney
Beshore, P. S. (A)
Bullock, M. W. (A)Lincoln
Jensen, J. C. (M)
Norris, F. W. (M)
Thomas, M. E. (A)
Winkler, C. W. (A)Omaha
Herold, J. L. (A)
Kotera, W. J. (A)
Newhouse, A. B. (A)

NEVADA

Las Vegas
Fuqua, C. E. (A)Reno
Shearer, R. W., Jr. (A)

NEW HAMPSHIRE

Concord
Evans, C. B. (A)Exeter
Bent, A. E. (A)Gorham
Dodge, J. B. (A)Jackson
Sise, A. F. (A)Laconia
Farrington, J. F. (F)Manchester
Castor, A. H. (A)
Chandler, V. H. (A)Newport
Vaughan, E. W. (A)Portsmouth
Bozog, G. A. (A)Seabrook Beach
Pickard, G. W. (F)

NEW JERSEY

Allenhurst
Lewis, H. M. (M)Asbury Park
Peterson, G. (A)
Rose, C. F. P. (M)Atlantic City
Woodyard, H. R. (A)Atlantic Highlands
Reinhart, A. G. (A)Audubon
Ballard, R. C. (A)
Bollinger, W. P. (A)
Conklin, J. W. (A)
Kihn, H. (A)
Marshall, W. E. (A)
Morrison, W. C. (A)
Ruoff, R. (A)
Varone, R. A. (A)
Wolf, L. J. (A)Avon-by-the-Sea
Beauchemin, A. K. (A)Barnegat
Miller, E. S. G. (A)Bayonne
Mack, E. J. (A)Belleville
MacAllister, A., Jr. (A)Belmar
Gibbons, D. R. (A)Bendix
Eller, K. B. (A)
Rylsky, G. V. (A)Bergenfield
Biosca, L. F. (A)Bloomfield
Abele, H. M., Jr. (A)
Bender, J. H. (A)
Bishop, J. B. (M)
Burley, F. E. (A)
Decino, A. (M)
Grandmont, P. E. (A)
Kreer, J. G., Jr. (M)
Mitchell, C. D. (M)
Moran, W. G. (A)
Potter, C. R. (A)
Smith, N. R. (M)
Spangenberg, L. F. (A)
Widell, E. G. (M)
Wilson, T. L. (A)
Wimpy, E. K. (A)Boonton
Anderson, N. J. (A)
Baldwin, J. G., Jr. (A)
Ballantine, S. (F)
Cook, L. (A)
Davis, R. C. (A)
Drake, F. H. (M)
Eells, M. M. (M)
Franks, C. J. (M)
Hull, L. M. (F)
King, P. B., Jr. (A)
Leung, Y. L. (A)
Loughlin, W. D. (F)
March, P. S. (A)
Minter, J. (A)
Montcalm, S. R. (M)
Redington, J. H. (A)
Richardson, A. G. (M)Bound Brook
McMillin, W. R. (A)
Stair, D. N. (A)Butler
Cushing, P. (A)Caldwell
Donald, D. D. (A)
Eberhard, L. E. (A)
Frutchey, M. P., Jr. (A)
Hotopp, A. H., Jr. (M)
Leibing, J. K. (A)
Peet, E. C. (A)
Tyzzar, H. J. (M)Camden
Ackerman, M. J. (A)
Antman, M. A. (A)
Artzt, M. (A)
Benham, T. A. (A)
Besigtoor, R. V. (M)
Braden, R. A. (A)
Brunet, M. (M)
Carlson, W. L. (A)
Creager, F. L. (A)
Crosby, R. (A)
Cummings, J. J. (A)
Dickey, E. T. (M)
Eaton, T. T. (A)
Engstrom, E. W. (F)
Epstein, D. W. (A)
Gusaraga, L. F. (A)
Gunter, C. A. (A)
Hackley, R. A. (A)
Hartman, C. J. (A)
Hersherberger, W. D. (A)
Hoyler, C. N. (A)
Hucke, H. M. (A)
Jones, L. F. (M)
Karns, M. E. (A)
Koch, W. R. (A)
Korman, N. I. (A)
Landon, V. D. (M)
Linder, E. G. (A)
Lingo, J. E. (A)
Maloff, J. G. (F)
Marks, M. (A)
Morton, G. A. (A)
Neumann, A. J. (A)
Nicoll, F. H. (A)
Ohler, A. E. (A)
Olson, H. F. (A)
Orr, R. W. (A)
Reiter, H. E. (A)
Reitenmeyer, F. X. (M)
Ritter, E. W. (M)
Rudnick, P. (A)
Ryssa, J. W. (A)
Sadovsky, J. (A)
Sands, W. F. (A)
Schradler, H. J. (M)
Schroeder, A. C. (A)
Shankweiler, R. G. (A)
Sherman, F. L. (A)
Smith, T. A. (A)
Tesch, W. L. (M)
Tolson, W. A. (M)
Wendt, K. R. (A)
Wolff, I. (A)
Young, C. J. (A)
Zworykin, V. K. (F)Cranford
Buzalski, T. J. (A)
Cornell, J. I. (M)
Fulmer, J. W. (A)
O'Neill, R. A., Jr. (A)
Pulley, L. A. (A)
Seibert, J. L. (A)Cresskill
Osborn, P. H. (A)Deal
Cutler, C. C. (A)
Dale, G. V. (A)
Fris, R. W. (M)
Goodall, W. M. (M)
Hant, L. E. (M)
Kerwin, A. E. (M)
Kircher, R. J. (M)
McKee, J. W. (A)
Schelleng, J. C. (F)
Schlaack, N. F. (M)
Shaw, R. C. (M)
Sowers, N. E. (M)
Young, L. G. (A)Demarest
Paulson, G. A. (A)Denville
Peterman, W. G. (A)
Smith, P. H. (A)
Starrett, J. S. (M)Dover
Benson, R. K. (J)Dumont
Reinecke, B. V. (A)Dunellen
Slezskinsky, G. N. (A)East Long Branch
Ring, B. T. (A)East Newark
Wendell, E. N. (M)East Orange
Remis, I. S. (A)
Cherry, S. J. (A)
Curtis, R. C. (A)
Evans, P. H. (F)
Feindel, A. (A)
Frink, F. W. (A)
Gawler, H. C. (M)
Holler, H. E. (M)
Hoffman, R. B. (M)
Holmboe, L. W. (A)
Hulse, B. T. (A)
Jervis, E. R. (A)Carlstadt
Fuelling, P. W. (A)Carteret
Singer, C. (A)Cedar Grove
Coon, C. E. (A)
Goldsmith, T. T., Jr. (A)
Nuner, J. F., Jr. (A)
Ostlund, E. M. (A)Chatham
Felch, E. P. (A)
Hensel, W. G. (A)
Norton, F. R. (M)
Peterson, A. C., Jr. (A)
Powell, A. E. (A)
Radcliffe, F. E. (A)
Taylor, P. H. (A)
Wing, A. K., Jr. (M)
Wright, A. K. (A)Closter
Copp, W. C. (A)Collingswood
Albrecht, H. D. (A)
Barton, L. E. (M)
Bedford, A. V. (A)
Boerner, T. J. (A)
Bonney, R. B. (A)
Charrier, G. M. (A)
Clark, E. L. (A)
Donley, H. L. (A)
Farfel, V. (A)
Gluyas, T. M., Jr. (M)
Hall, H. N. (A)
Harvey, R. L. (A)
Kozanowski, H. N. (A)
Lawrence, W. L. (A)
Ludwig, J. H. (A)
MacSorley, O. L. (A)
Merkle, W. W. (A)
Pettengill, G. W. (A)
Potter, E. H. (A)
Pulley, A. A. (A)
Roe, J. H. (A)
Selby, L. C. (A)
Stupp, R. W. (A)
Turner, A. H. (A)
Weible, N. R. (A)Elberon
Betts, P. H. (M)
McCann, D. J. (A)Elizabeth
Blades, J. E. (A)
Brick, F. R., Jr. (M)
Cohen, S. (M)
Finney, R. (A)
Harkins, P. B. (A)
Quinn, J. L., Jr. (A)
Walsh, L. (A)
Wilner, J. T. (A)Englewood
Fink, D. G. (A)
Saliba, G. J. (M)Erlton
More, C. C. (A)Essex Fells
Woodbridge, A. C. (A)Fair Haven
Algor, M. M. (A)
Hessel, J. (A)
Priebe, F. K. (A)Fair Lawn
McMullen, F. C. (A)Florham Park
Kuthe, H. K. (A)Fort Dix
Bonadio, G. A. (A)Fort Hancock
Arnold, J. W. (M)
Danziger, A. (A)Fort Lee
Davies, R. J., Jr. (A)
Maute, B. W. (A)Fort Monmouth
Anner, G. E. (A)
Buchanan, G. C. (A)
Cole, R. I. (A)
Dupree, J. E. (A)
Giacetto, L. J. (A)
Maier, O. C. (A)
Malin, S. (A)
Metzger, S. (A)
Mischenheimer, H. N. (M)
Perkins, O. D. (M)
Shaw, R. M. (A)
Vollum, H. (A)
Yamins, H. G. (A)Gillette
Rystedt, T. (A)Glassboro
Snyder, R. L. (A)Glen Ridge
Dart, H. F. (M)
Deal, H. B. (M)
Olsen, E. U. (A)
Reveal, P. A. (A)
Stanton, S. W. (A)
Trimman, E. L. (A)Glen Rock
Clark, L. E. (A)Grantwood
Eitelbach, H. L. (A)
Osmundsen, G. A. (A)Guttenberg
Pranshefer, T. W. (A)Hackensack
Freund, W. H. (A)Haddonfield
Baker, I. R. (M)

Laube, O. T. (A)
Levine, M. E. (A)
Lewis, R. F. (A)
Libby, L. L. (A)
Lund, N. (A)
Macalpine, W. W. (M)
Marble, F. (A)
Miller, G. A. (A)
Mitchell, J. K. (A)
Nelson, D. E. (A)
Schmidt, W. C. (A)
Shulman, C. (A)
Spector, S. (A)
Spencer, M. C. (A)
Stoddard, R. N. (A)
Stromeyer, C. F. (A)
Turner, R. W. (A)
Watts, C. B., Jr. (A)

East Paterson
Fleming, J. W. (A)Eatontown
Bady, I. (A)
Blom, B. V. (A)
Townslay, F. W. (A)Elberon
Betts, P. H. (M)
McCann, D. J. (A)Elizabeth
Blades, J. E. (A)
Brick, F. R., Jr. (M)
Cohen, S. (M)
Finney, R. (A)
Harkins, P. B. (A)
Quinn, J. L., Jr. (A)
Walsh, L. (A)
Wilner, J. T. (A)Englewood
Fink, D. G. (A)
Saliba, G. J. (M)Erlton
More, C. C. (A)Essex Fells
Woodbridge, A. C. (A)Fair Haven
Algor, M. M. (A)
Hessel, J. (A)
Priebe, F. K. (A)Fair Lawn
McMullen, F. C. (A)Florham Park
Kuthe, H. K. (A)Fort Dix
Bonadio, G. A. (A)Fort Hancock
Arnold, J. W. (M)
Danziger, A. (A)Fort Lee
Davies, R. J., Jr. (A)
Maute, B. W. (A)Fort Monmouth
Anner, G. E. (A)
Buchanan, G. C. (A)
Cole, R. I. (A)
Dupree, J. E. (A)
Giacetto, L. J. (A)
Maier, O. C. (A)
Malin, S. (A)
Metzger, S. (A)
Mischenheimer, H. N. (M)
Perkins, O. D. (M)
Shaw, R. M. (A)
Vollum, H. (A)
Yamins, H. G. (A)Gillette
Rystedt, T. (A)Glassboro
Snyder, R. L. (A)Glen Ridge
Dart, H. F. (M)
Deal, H. B. (M)
Olsen, E. U. (A)
Reveal, P. A. (A)
Stanton, S. W. (A)
Trimman, E. L. (A)Glen Rock
Clark, L. E. (A)Grantwood
Eitelbach, H. L. (A)
Osmundsen, G. A. (A)Guttenberg
Pranshefer, T. W. (A)Hackensack
Freund, W. H. (A)Haddonfield
Baker, I. R. (M)

Haddonfield (cont.)

Beers, G. L. (M)
Bohke, W. H. (A)
Brown, G. H. (F)
Burrill, C. M. (M)
Chittick, K. A. (A)
Coleman, J. B. (M)
Conron, W. H. (A)
Dyson, H. R. (A)
Fenster, G. L. (A)
Gerry, E. F. (A)
Hoffman, W. H. (A)
Holmes, R. S. (A)
Hubbard, B. L. (A)
Keachie, J. H. (A)
Kell, R. D. (A)
Leigh, J. S. (A)
Love, J. E. (A)
Millspaugh, F. W. (A)
Morgan, J. M. (A)
Orth, R. T. (M)
Perry, C. S., Jr. (A)
Petersen, R. L. (A)
Peterson, R. A. (A)
Reiling, G. E. (A)
Renhard, J. A. (A)
Sadenwater, H. (M)
Sanders, R. C., Jr. (A)
Sutherland, E. F. (A)
Terrell, J. A. (A)
Thomas, H. E. (A)
Touant, V. E. (M)
Vance, H. C. (M)
Walter, J. C. (M)
Wheeler, F. (A)
Whitney, M. G. (A)
Woodward, O. M., Jr. (A)

Haddon Heights
Jones, M. C. (A)
Scheldorf, R. D. (A)
Smith, J. C. (A)
Stanko, E. B. (A)
Stone, F. B. (A)
Talmage, F. E. (A)
Wolf, L. (A)Harrington Park
Amend, A., Jr. (A)Harrison
Ayer, R. B. (M)
Briggs, T. H., Jr. (A)
Burnap, R. S. (A)
Burnett, C. E. (M)
Burnside, D. G. (A)
Cimorelli, J. T. (A)
De Ryder, H. (A)
Devore, H. B. (M)
Donal, J. S., Jr. (M)
Erickson, E. H. (A)
Glover, A. M. (A)
Haller, C. E. (M)
Headrick, L. B. (M)
Henry, T. J. (M)
Herold, E. W. (M)
Hickok, W. H. (A)
Hiringer, J. F. (M)
Jams, H. (M)
James, W. M. (M)
Jones, R. B. (M)
Kelly, R. L. (M)
Kilgore, G. R. (M)
Langmuir, D. B. (M)
Law, R. R. (M)
Lederer, E. A. (M)
Malter, L. (A)
Mergaard, L. S. (M)
North, D. O. (M)
Pensak, L. (A)
Rose, A. (M)
Rose, G. M., Jr. (M)
Shaw, G. R. (M)
Smith, P. T. (A)
Spitzer, E. E. (M)
Stinchfield, J. M. (M)
Swedlund, L. E. (A)
Taylor, C. W. (A)
Thompson, B. J. (F)
Ulrey, D. (M)
Walley, B. (A)Hoboken
Hazelton, A. (F)
Neitzert, C. (A)
Rosenblatt, P. (A)
Stempel, W. M. (A)
Stockwell, F. C. (M)Holmdel
Englund, C. R. (F)Interlaken
Burrows, C. R. (M)
Hunkins, H. R. (A)
Wildermuth, J. L., Jr. (A)Irvington
Knochel, W. J. (A)
Mammo, E. J. (A)
Strahlman, R. H. (A)Jersey City
Bernard, J. L., Jr. (A)
Bremer, F. V. (A)
Bremer, H. A. (A)
Dabrowski, H. L. (A)
Rogers, D. H. (A)
Samuelson, C. D. (A)
Smith, W. M. (A)
Thatcher, E. V. (A)Kearny
Grosselinger, W. H. (A)
Lack, F. R. (F)
Scarr, H. F. (A)
Taylor, R. S. (A)
Vanderbilt, S. (A)Lawrenceville
Dayton, B. L. (A)
Wright, O. (A)Leonla
Karapetoff, V. (A)
Myers, R. H. (A)
Willig, L. F. (A)Lincoln Park
Horrocks, S. W. (A)
Nordstrom, B. H. (A)Linden
Gspann, C. J. (J)
Riley, G. H. (A)Little Falls
Budelmann, F. T. (A)
McKeechie, J. S. (A)Little Silver
Biltz, F. J. (A)
Craig, L. H. (A)
Lowry, L. R. (A)
Perley, A. L. (A)
Shultise, Q. M. (A)Livingston
Bareiss, M. (M)
Houck, H. W. (M)
Ports, E. G. (M)
Reise, H. A. (M)Long Branch
Bastian, C. W. (A)
Brenner, M. M. (A)
Clark, W. R. (A)
Coleman, A. (A)
Dunlap, C. R. (A)
Goodwin, E. A. (A)
Gould, W. B., III (A)
Hansen, W. W. (A)
Harris, H. (A)
Inslerman, H. E. (A)
Johnson, G. D., Jr. (A)
Johnson, P. K. (A)
Kearney, H. B., Jr. (A)
Lavoie, S. D. (A)
Senn, G. F. (A)
Stodola, E. K. (A)
Tosola, F. T. (A)
Vieweger, A. L. (A)
Zahl, H. A. (A)Lyndhurst
Mahon, A. C. (A)
Munn, A. J. (A)Madison
Caughy, W. K. (A)
Howard, E. J. (M)
Hussey, L. W. (A)
Phelps, W. A. (A)
Roeten, A. A. (M)Manasquan
Skirrow, J. F. (M)Maplewood
Bonnano, J. L. (A)
Cunningham, F. W. (M)
Hogencamp, H. C. (A)
Pidgeon, H. A. (M)
Steiger, B. F. (A)
Youngstrom, N. C. (A)Margate City
Godfrey, E. (A)Marlton
Allen, H. C. (A)Matawan
Hyrne, E. E. (A)
Leach, H. B. (A)Maywood
Koechel, W. P. (A)Medford
Anderson, P. A. (M)Medford Lakes
Kentner, C. D. (A)

NEW JERSEY

Teaneck
Burley, R. M. (A)
Busch, W. R. (A)
Clark, R. W. (A)
Friebe, E. J. (A)
Glauber, J. J. (A)
Shelby, R. E. (M)

Tenafly
Swensen, J. Jr. (A)

Trenton
Kromko, V. J. (A)

Tuckerton
Munzer, L. F. (A)

Union
Edwards, J. B. (A)
Fricker, J. N. (A)
Stobbe, J. A. (A)

Upper Montclair
Alexander, W. R. (A)
Arnot, R. F. (A)
Atwater, C. K. (A)
Berger, W. E. (A)
De Long, O. A., Jr. (A)
Godley, P. F. (A)
Lempert, I. E. (A)

Verona
Butler, H. R. (A)
George, E. E. (M)
Griffith, B. G. (A)
Jacobs, G. W. (A)
Laforge, L. H., Jr. (A)
Tratt, F. H. (M)

Waldick
Wakefield, J. M. (A)

Warren Point
Hill, E. (A)

Wenonah
Lyons, W. (A)

West Caldwell
Hazelhurst, E. (A)
Schade, O. H. (M)
Wilde, A. E., Jr. (A)
Williams, S. B. (A)
Willis, F. C. (A)

West Collingswood
Beleskas, S. M. (A)
Henderson, R. A. (A)
Lev, S. N. (A)
Mercer, W. R. (A)
Perry, S. V. (A)

West Englewood
Horne, H. Q. (M)
Paulsen, J. F. (A)
Wilbur, E. C. (A)
Zuschlag, T. (A)

Westfield
Burns, G. K. (A)
Laube, H. W. (A)
Pell, W. F., Jr. (A)
Vennes, H. J. (M)

West Long Branch
Watson, P. E. (A)

Westmont
Fredendall, G. L. (A)
Gottier, T. L. (A)
Grundmann, G. L. (A)
Short, D. W. (M)
Taylor, J. P. (A)

West New York
Thomas, W. E. (A)

West Orange
Bain, J. C. (A)
Crowley, H. L. (M)
Dalrymple, H. C. (A)
Edison, T. M. (A)
Kishpaugh, A. W. (M)
Martin, Del. K. (M)
Olesen, H. L. (M)
Perkins, G. C. (A)
Shangraw, C. C. (M)
Ware, P. (A)

Westwood
Gassenheimer, W. T. (A)

Whippany
Breiding, E. J. (A)
Coram, R. E. (M)
Doherty, W. H. (M)
Flanagan, C. (M)
Herber, J. C. (A)
Lemigan, T. E. (A)
Newhouse, R. C. (M)
Olmstead, N. C. (A)
Ong, F. C. (A)
Robinson, A. L. (A)
Skene, A. A. (M)

Woodcliff
Andrews, E. (A)

Wood Ridge
Kennedy, J. (A)

Woodlynne
Gerber, P. D. (A)

NEW MEXICO

Albuquerque
Crozier, W. D. (A)
Dodd, L. F. (A)
Johnson, G. S. (A)
Jones, H. L. (A)
Ogas, M. J. (A)

Roswell
Gessert, E. C., Jr. (A)

NEW YORK

Albany
Decker, J. L. (A)
Dillenback, G. V., Jr. (A)
Smith, H. E. (A)

Altamont
Cortright, R. D. (A)

Ardley
Conviser, H. (A)

Armonk
Teanor, P. A. (A)

Baldwin
Anderson, R. (A)
Cleveland, T. (A)
Hanson, K. W. (A)
Moffett, L. (A)
Plaisted, R. J. (A)
Stearns, H. M. (A)
Thompson, R. G. (A)

Ballston Lake
Mengel, J. T. (A)

Ballston Spa
Schwenker, A. H. (A)

Bay Shore
Bleil, F. J. (A)

Beacon
Ritchie, A. V. (A)

Bellmore
Glaser, E. M. (A)
Varian, R. H. (A)

Beechhurst
Forrest, G. E. (A)

Binghamton
Carmin, M. H. (A)
Coroniti, S. C. (A)
Gilbert, L. H. (A)
Merchant, J. H. (A)
Stantz, L. H. (A)
Tholstrup, H. (A)

Brighton
Balling, A. W. (A)

Brightwaters
Lang, J. G. (A)

Bronxville
Elliott, D. A. (A)
Gordon, T. M., Jr. (A)
Langley, R. H. (F)
Lord, R. (A)
McCoy, R. D. (A)
Serrell, R. (A)
Weinberger, J. (F)

Buffalo
Bartels, A. (A)
Borkowski, C. J. (A)
Bruch, R. (A)
Burbank, J. (A)
Dybowsky, A. J. (A)
Hoffman, K. B. (A)
Hollfelder, E. J. (A)
Huber, C. W. (A)
Korts, H. G. (A)
Kwietniewski, C. J. (A)
Roy, E. H. (A)
Sandor, J. (A)
Seeman, W. F. (A)
Skrivseth, A. G. (A)
Vanacore, T. (A)
Van Baalen, J. M. (A)
Waud, E. C. (A)

Canton
Priest, W. C. (A)

Cedarhurst
Mercier, A. E. (A)

Cheektowaga
Tittle, H. C. (A)

Corning
Guyer, E. M. (A)
Phillips, C. J. (A)

Croton Falls
Sealey, S. W. (A)

Croton-on-Hudson
James, V. N. (A)

Eggertsville
Forbes, H. C. (M)

Elmsford
Kranz, F. W. (A)
Pearson, H. A. (A)

Endicott
Ruth, J. A. (A)

Far Rockaway
Mautner, R. (A)

Floral Park
Nixon, G. M. (A)

Freeport
Harone, S. A. (A)
Wattson, H. B. (A)

Garden City
Browder, J. E. (A)
Buttschardt, C. C. (A)
Case, N. P. (M)
Colton, A. J. (A)
Dunn, L. J. (M)
Espersen, G. (A)
Filgate, J. T. (M)
Gemmill, F. O. (A)
Hansen, W. W. (A)
Harrison, A. E. (A)
Heins, J. L. (A)
Henney, K. (M)
Keim, D. Y. (A)
Kent, S. F. (A)
Kinnell, P. (A)
Lester, J. M. (A)
Mannheimer, D. (A)
Mellor, W. N. (A)
Muller, J. H. (A)
Murphy, E. J. (A)
Neider, J. H. (A)
Nuebling, C. A. (A)
Palmer, W. (A)
Price, W. E. (A)
Sensiper, S. (A)
Sherwood, E. M. (A)
Somers, B. A. (A)
Tawney, G. L. (A)
Webber, H. E. (A)
Whaley, C. D. (A)
Winchell, W. H. (A)
Woodyard, J. R. (A)

Glen Head
Schaefer, J. (A)

Great Neck
Craib, J. F. (A)
Hershey, L. M. (M)
Kaunitz, F. M. (A)
Kellogg, D. S. (A)
Lynch, A. H. (M)
MacAdam, W. K. (A)
Campbell, D. M. (A)
Pensyl, D. S. (A)
Salati, O. M. (A)
Valentine, R. W. (A)
Wheeler, H. A. (F)

Hall
Phillips, L. B. (A)

Hamburg
Fiedler, L. (A)

Harmon-on-Hudson
Lundberg, F. J. (A)

Hartsdale
Engelhardt, G. B. (A)
Goodwin, C. W. (A)

Hastings-on-Hudson
Caldicott, E. (A)
Miller, D. H. (A)
Runyon, C. R., III (A)

Hempstead
Andrews, G. B. (A)
Hesse, H. R. (A)
Lundwall, G. F. (A)
Ratliff, W. H., Jr. (A)
Shepherd, J. E. (A)
Shuey, L. S. (A)
White, G. E. (A)

Hempstead Gardens
Westman, H. P. (M)

Hicksville
Hammerichmidt, A. L.
(A)
Sprague, R. M. (A)

Huntington
Halstead, W. S. (M)
Swain, R. R. (A)

Hurley
Kent, G. C. (A)

Ithaca
Credle, A. B. (A)

Knudson, L. I. (A)
McLean, T. (A)
Moeder, W. D. (A)
Sohn, H. (A)
Smith, H. G. (A)
Truett, R. (A)

Kenmore
Isaacson, H. M. (A)
Kingsley, R. J. (A)
Kornetz, N. S. (A)
Noel, L. S. (A)
Schuer, F. H. (A)
Stephenson, H. B. (A)
Taylor, J. L., Jr. (A)

Kingston
Seimes, M. S. (A)

Larchmont
Nilson, A. R. (M)
Plowman, F. R. (A)
Van Lieshout, L. J. A.
(M)
Van Ryn, K. C. (A)

Le Roy
Lapp, R. P. (A)

Lynbrook
Fedotoff, N. V. (A)
Isberg, R. A. (A)
Maresca, J. F. (A)

Macedon
Thistlethwaite, W. G. (A)

Malverne
Callahan, J. L. (M)
Schlegel, W. R. (A)
Schneider, R. E. (A)
Solbrig, A. L. (A)

Mamaroneck
Hierath, D. C. (A)

Manhasset
Carter, E. F. (F)
Fredendall, B. F. (A)
Mountjoy, G. (M)
Srebrot, C. M. (M)

Massapequa
Baunach, E. L. (A)

Merrick
Bedell, T. A. (A)
Caldwell, J. J., Jr. (A)
Roe, R. B. (A)

Middleton
Callender, E. R. (A)

Mincola
Jones, B. F., Jr. (A)
Mieher, W. W. (A)
Silhavy, W. M. (A)

Mitchel Field
Altman, F. J. (A)

Montauk
Thompson, N. H. (A)

Mount Vernon
Baum, E. (A)
Eastman, P. J. (A)
Hendricks, P. S. (A)
Hincley, H. D. (A)
Sunkin, D. (M)
Stone, C. G., Jr. (A)

Nassau
Merchant, R. (A)

New City
Doellner, L. J. (A)

New Hyde Park
Fund, S. R. (A)
Montfort, R. A. (A)
Nachemson, P. R. (A)

New Rochelle
Donofrio, C. J. (J)
Hemming, C. B. (A)

New York (Includes Bronx and Manhattan. For New York City see also Brooklyn, Queens, and Staten Island which follow.)

Acceves, J. G. (M)
Adams, I. J. (M)
Adler, B. (A)
Affel, H. A. (M)
Alexander, L. (A)
Alford, A. (M)
Amatneck, K. (A)
Amy, E. V. (M)
Anderson, A. E. (A)
Anderson, C. N. (F)
Anderson, H. L. (A)
Antell, S. (A)
Arick, L. (A)
Armstrong, E. H. (F)
Arnson, L. (M)
Ashby, A. L. (A)

Atkin, R. (A)
Ayer, O. G. (A)
Babcock, S. M. (A)
Bach, H. M. (A)
Bagnall, V. B. (M)
Bailey, A. B. (A)
Bailey, A. (F)
Bair, R. S. (M)
Baker, G. W. (A)
Baldwin, M. W., Jr. (A)
Baldwin, P. C. (A)
Barco, A. A. (A)
Barkey, R. (J)
Barkley, W. J. (M)
Barlow, D. S. (A)
Batcheller, A. (M)
Baumann, C. L., Jr. (A)
Bayly, B. De F. (M)
Beal, R. R. (A)
Beins, J. K. (A)
Berger, U. S. (A)
Berkoff, S. (A)
Beverage, H. H. (F)
Binns, J. R. (A)
Black, D. M. (M)
Black, K. C. (M)
Black, W. L. (M)
Blackman, R. B. (A)
Blackmar, A. E., Jr. (A)
Blackwell, O. B. (F)
Bocharoff, G. M. (A)
Bode, H. W. (M)
Bomberger, D. C. (A)
Bonner, A. L. (A)
Borgelt, W. E. (J)
Bose, J. H. (A)
Bostwick, L. G. (A)
Boughtwood, J. E. (A)
Bousquet, P. C. (A)
Bown, R. (F)
Branga, F. J. (A)
Brazee, G. (A)
Brenner, B. (A)
Bressler, J. (A)
Briggs, L. A. (M)
Brocner, V. (A)
Brooks, T. A. (A)
Brown, A. S. (A)
Brown, D. S. (A)
Brown, J. T. L. (A)
Brown, W. A. R. (A)
Bruggeman, J. T. (A)
Brush, E. (A)
Bullard, W. R. (A)
Burghard, G. E. (M)
Burrows, H. R. (A)
Burton, E. T. (M)
Buttner, H. H. (M)
Byrnes, I. F. (M)
Cahoon, B. B. (A)
Calbeck, C. J. (A)
Caldwell, O. H. (M)
Campbell, C. H. (A)
Campbell, R. D. (A)
Capen, H. N. (A)
Carduner, W. (A)
Carlebach, W. M. (A)
Carvajal, C. R. (A)
Cassell, J. L. (A)
Castrignano, R. (A)
Chaffer, J. G. (M)
Chromak, L. P. (A)
Clark, J. W. (A)
Clark, T. H. (A)
Coggeshall, J. S. (M)
Cohan, E. K. (M)
Cohn, H. (M)
Coleman, C. F. (A)
Coles, F. A. (A)
Colman, L. (A)
Corbett, C. W. (A)
Corbett, E. L. (A)
Cousins, V. M. (A)
Cowan, F. A. (M)
Crawford, J. D. (A)
Crews, E. H. (A)
Cunningham, H. R., Jr. (A)
Custer, C. J. (A)
Dalman, C. (A)
Davis, R. F. (A)
Deakin, G. (A)
Dean, C. E. (M)
De Baun, J. R. (A)
Debord, M. (J)
Decker, F. W. (A)
De Lange, O. E. (A)
Deloraine, E. M. (F)
Del Vecchio, S. (A)
Demarest, C. S. (M)
De Neuf, D. K. (M)
Dennis, F. R. (A)
De Witt, D. (A)
D'Humy, F. E. (A)
Dietrich, F. (A)
Dietsch, C. G. (A)
Dietze, E. (A)
Dietzold, R. L. (M)
Dodg, F. R. (A)
Armstrong, E. H. (F)
Arnson, L. (M)
Ashby, A. L. (A)

Atkin, R. (A)
Ayer, O. G. (A)
Babcock, S. M. (A)
Bach, H. M. (A)
Bagnall, V. B. (M)
Bailey, A. B. (A)
Bailey, A. (F)
Bair, R. S. (M)
Baker, G. W. (A)
Baldwin, M. W., Jr. (A)
Baldwin, P. C. (A)
Barco, A. A. (A)
Barkey, R. (J)
Barkley, W. J. (M)
Barlow, D. S. (A)
Batcheller, A. (M)
Baumann, C. L., Jr. (A)
Bayly, B. De F. (M)
Beal, R. R. (A)
Beins, J. K. (A)
Berger, U. S. (A)
Berkoff, S. (A)
Beverage, H. H. (F)
Binns, J. R. (A)
Black, D. M. (M)
Black, K. C. (M)
Black, W. L. (M)
Blackman, R. B. (A)
Blackmar, A. E., Jr. (A)
Blackwell, O. B. (F)
Bocharoff, G. M. (A)
Bode, H. W. (M)
Bomberger, D. C. (A)
Bonner, A. L. (A)
Borgelt, W. E. (J)
Bose, J. H. (A)
Bostwick, L. G. (A)
Boughtwood, J. E. (A)
Bousquet, P. C. (A)
Bown, R. (F)
Branga, F. J. (A)
Brazee, G. (A)
Brenner, B. (A)
Bressler, J. (A)
Briggs, L. A. (M)
Brocner, V. (A)
Brooks, T. A. (A)
Brown, A. S. (A)
Brown, D. S. (A)
Brown, J. T. L. (A)
Brown, W. A. R. (A)
Bruggeman, J. T. (A)
Brush, E. (A)
Bullard, W. R. (A)
Burghard, G. E. (M)
Burrows, H. R. (A)
Burton, E. T. (M)
Buttner, H. H. (M)
Byrnes, I. F. (M)
Cahoon, B. B. (A)
Calbeck, C. J. (A)
Caldwell, O. H. (M)
Campbell, C. H. (A)
Campbell, R. D. (A)
Capen, H. N. (A)
Carduner, W. (A)
Carlebach, W. M. (A)
Carvajal, C. R. (A)
Cassell, J. L. (A)
Castrignano, R. (A)
Chaffer, J. G. (M)
Chromak, L. P. (A)
Clark, J. W. (A)
Clark, T. H. (A)
Coggeshall, J. S. (M)
Cohan, E. K. (M)
Cohn, H. (M)
Coleman, C. F. (A)
Coles, F. A. (A)
Colman, L. (A)
Corbett, C. W. (A)
Corbett, E. L. (A)
Cousins, V. M. (A)
Cowan, F. A. (M)
Crawford, J. D. (A)
Crews, E. H. (A)
Cunningham, H. R., Jr. (A)
Custer, C. J. (A)
Dalman, C. (A)
Davis, R. F. (A)
Deakin, G. (A)
Dean, C. E. (M)
De Baun, J. R. (A)
Debord, M. (J)
Decker, F. W. (A)
De Lange, O. E. (A)
Deloraine, E. M. (F)
Del Vecchio, S. (A)
Demarest, C. S. (M)
De Neuf, D. K. (M)
Dennis, F. R. (A)
De Witt, D. (A)
D'Humy, F. E. (A)
Dietrich, F. (A)
Dietsch, C. G. (A)
Dietze, E. (A)
Dietzold, R. L. (M)
Dodg, F. R. (A)
Armstrong, E. H. (F)
Arnson, L. (M)
Ashby, A. L. (A)

Atkin, R. (A)
Ayer, O. G. (A)
Babcock, S. M. (A)
Bach, H. M. (A)
Bagnall, V. B. (M)
Bailey, A. B. (A)
Bailey, A. (F)
Bair, R. S. (M)
Baker, G. W. (A)
Baldwin, M. W., Jr. (A)
Baldwin, P. C. (A)
Barco, A. A. (A)
Barkey, R. (J)
Barkley, W. J. (M)
Barlow, D. S. (A)
Batcheller, A. (M)
Baumann, C. L., Jr. (A)
Bayly, B. De F. (M)
Beal, R. R. (A)
Beins, J. K. (A)
Berger, U. S. (A)
Berkoff, S. (A)
Beverage, H. H. (F)
Binns, J. R. (A)
Black, D. M. (M)
Black, K. C. (M)
Black, W. L. (M)
Blackman, R. B. (A)
Blackmar, A. E., Jr. (A)
Blackwell, O. B. (F)
Bocharoff, G. M. (A)
Bode, H. W. (M)
Bomberger, D. C. (A)
Bonner, A. L. (A)
Borgelt, W. E. (J)
Bose, J. H. (A)
Bostwick, L. G. (A)
Boughtwood, J. E. (A)
Bousquet, P. C. (A)
Bown, R. (F)
Branga, F. J. (A)
Brazee, G. (A)
Brenner, B. (A)
Bressler, J. (A)
Briggs, L. A. (M)
Brocner, V. (A)
Brooks, T. A. (A)
Brown, A. S. (A)
Brown, D. S. (A)
Brown, J. T. L. (A)
Brown, W. A. R. (A)
Bruggeman, J. T. (A)
Brush, E. (A)
Bullard, W. R. (A)
Burghard, G. E. (M)
Burrows, H. R. (A)
Burton, E. T. (M)
Buttner, H. H. (M)
Byrnes, I. F. (M)
Cahoon, B. B. (A)
Calbeck, C. J. (A)
Caldwell, O. H. (M)
Campbell, C. H. (A)
Campbell, R. D. (A)
Capen, H. N. (A)
Carduner, W. (A)
Carlebach, W. M. (A)
Carvajal, C. R. (A)
Cassell, J. L. (A)
Castrignano, R. (A)
Chaffer, J. G. (M)
Chromak, L. P. (A)
Clark, J. W. (A)
Clark, T. H. (A)
Coggeshall, J. S. (M)
Cohan, E. K. (M)
Cohn, H. (M)
Coleman, C. F. (A)
Coles, F. A. (A)
Colman, L. (A)
Corbett, C. W. (A)
Corbett, E. L. (A)
Cousins, V. M. (A)
Cowan, F. A. (M)
Crawford, J. D. (A)
Crews, E. H. (A)
Cunningham, H. R., Jr. (A)
Custer, C. J. (A)
Dalman, C. (A)
Davis, R. F. (A)
Deakin, G. (A)
Dean, C. E. (M)
De Baun, J. R. (A)
Debord, M. (J)
Decker, F. W. (A)
De Lange, O. E. (A)
Deloraine, E. M. (F)
Del Vecchio, S. (A)
Demarest, C. S. (M)
De Neuf, D. K. (M)
Dennis, F. R. (A)
De Witt, D. (A)
D'Humy, F. E. (A)
Dietrich, F. (A)
Dietsch, C. G. (A)
Dietze, E. (A)
Dietzold, R. L. (M)
Dodg, F. R. (A)
Armstrong, E. H. (F)
Arnson, L. (M)
Ashby, A. L. (A)

Atkin, R. (A)
Ayer, O. G. (A)
Babcock, S. M. (A)
Bach, H. M. (A)
Bagnall, V. B. (M)
Bailey, A. B. (A)
Bailey, A. (F)
Bair, R. S. (M)
Baker, G. W. (A)
Baldwin, M. W., Jr. (A)
Baldwin, P. C. (A)
Barco, A. A. (A)
Barkey, R. (J)
Barkley, W. J. (M)
Barlow, D. S. (A)
Batcheller, A. (M)
Baumann, C. L., Jr. (A)
Bayly, B. De F. (M)
Beal, R. R. (A)
Beins, J. K. (A)
Berger, U. S. (A)
Berkoff, S. (A)
Beverage, H. H. (F)
Binns, J. R. (A)
Black, D. M. (M)
Black, K. C. (M)
Black, W. L. (M)
Blackman, R. B. (A)
Blackmar, A. E., Jr. (A)
Blackwell, O. B. (F)
Bocharoff, G. M. (A)
Bode, H. W. (M)
Bomberger, D. C. (A)
Bonner, A. L. (A)
Borgelt, W. E. (J)
Bose, J. H. (A)
Bostwick, L. G. (A)
Boughtwood, J. E. (A)
Bousquet, P. C. (A)
Bown, R. (F)
Branga, F. J. (A)
Brazee, G. (A)
Brenner, B. (A)
Bressler, J. (A)
Briggs, L. A. (M)
Brocner, V. (A)
Brooks, T. A. (A)
Brown, A. S. (A)
Brown, D. S. (A)
Brown, J. T. L. (A)
Brown, W. A. R. (A)
Bruggeman, J. T. (A)
Brush, E. (A)
Bullard, W. R. (A)
Burghard, G. E. (M)
Burrows, H. R. (A)
Burton, E. T. (M)
Buttner, H. H. (M)
Byrnes, I. F. (M)
Cahoon, B. B. (A)

NEW YORK

FORT TOTTEN
Courtenay J. A. (A)

HOLLIS
Caputo, N. J. (A)
Ehler, F. C. (A)
Shellock, A. J. (A)
Squire, F. M. (A)

JACKSON HEIGHTS
Burroughs, G. S. (A)
Carter, H. J. (A)
Dostal, F. X. (A)
Grumich, J. (A)
Hickman, C. N. (A)
Kelley, L. A. (A)
Nye, J. H. (A)
Sigmund, E. L. (A)
Thomas, F. G. (A)
Young, N. H. (A)

JAMAICA
Fleming, C. C. (A)
Heise, A. N. (A)
Jeffords, J. M. (A)
Monev, V. J. (A)
Ring, E. F. (A)
Stellwagen, F. W. (A)
Valentine, J. M. (A)
White, J. D., Jr. (A)

JAMAICA ESTATES
Heindel, H. J. (A)

KEW GARDENS
Behm, L. F. (A)
Eter, J. M. (A)
Relson, M. (A)

KEW GARDENS HILLS
Appel, H. W. (M)

LITTLE NECK
Armstrong, H. W. (A)
Bailey, W. F. (A)
Blanchard, D. E. (A)
Crawford, J. D. (M)
Curtis, L. F. (M)
Di Toro, M. J. (A)
Duffy, M. P. (A)
Dunning, O. M. (A)
Freeman, R. L. (A)
Harnett, D. E. (M)
Hergenrother, R. C. (A)
Kunicky, B. F. (A)
Larson, G. C. (A)
Loughlin, B. D. (A)
Loughren, A. V. (M)
Malling, L. R. (A)
McLain, K. H. (M)
McKee, L. H. (A)
Okrent, J. (A)
Rado, J. A. (A)

LONG ISLAND CITY
Ansley, A. C. (A)
Bagno, S. M. (A)
James, R. T. (A)
Lecount, V. V. (A)
Sobocinski, B. H. (J)

MASPETH
Durkin, W. P. (A)
Lauraitis, A. J. (A)
Mead, P. R. (A)
Powell, T. (A)

QUEENS VILLAGE
Gaydos, G. J. (A)
Joss, E. T. (A)
Sypher, E. L., Jr. (A)

RICHMOND HILL
Hampshire, R. A. (A)
Jacobs, F. (A)
Palasky, H. (A)
Wolf, H. (A)

RIDGEWOOD
Pelitsch, E. J. (A)

SAINT ALBANS
Batcher, R. R. (M)
Hansen, E. L. (A)
Holeitz, A. C. (A)
Rothenberg, S. M. (A)
Van Rosenbergh, W. (A)

SOUTH OZONE PARK
Wade, N. G., III (A)

SPRINGFIELD GARDENS
Lurie, E. M. (A)

SUNNYSIDE
Flores, H. (M)

WHITESTONE
Ragazzini, J. R. (A)

WOODHAVEN
Hafely, C. H. (A)

WOODSIDE
Ebert, J. E. (J)
Keith, W. S. (A)
Ostheimer, E. J. (A)

Reuman, W. H. (A)
Truhlar, G. (A)

STATEN ISLAND
Puntin, E. J. (A)

CLIFTON
Riordan, N. F. (A)

NEW DORP
Anderson, W. A. (A)
Avins, J. (A)
Thing, K. (A)

NEW DORP BEACH
Gunther, F. A. (M)

RANDALL MANOR
Rodwin, G. (M)

Niagara Falls
Boyce, B. A. (A)
Lidbury, F. A. (A)
Mansfield, E. E., Jr. (A)
Rogers, K. E. (A)

Northport
Havstad, H. H. (A)

North Tarrytown
Akin, R. M. (A)

North Tonawanda
Buck, D. G. (A)
Christensen, A. B. (A)
Hayslett, L. E. (A)
Riggs, J. H. (A)
Schmidt, F. M. (A)

Nyack
Smith, K. B. (A)

Oceanside
Schrader, W. A. (A)

Ogdensburg
Lafferty, R. E. (A)

Old Westbury
Streeter, E. C., Jr. (A)

Orchard Park
Andrews, R. W. (A)

Patchogue
Gillespie, C. N. (A)
Robinson, P. W. (A)
Whitehouse, J. E. (M)

Point Pleasant
Bullis, O. F. (A)
Moxon, A. W. (A)

Port Chester
Fingerle, W., Jr. (A)

Port Jefferson
Dow, O. E. (A)
Carter, P. S. (M)
Hansell, C. W. (M)
Hopkins, G. C. (A)
Lerch, Q. A., Jr. (A)
Lindenblad, N. E. (M)

Port Washington
Banks, C. R. (A)
Little, D. S. (A)
Rankin, J. A. (A)

Potdam
Stiles, J. L. (A)

Poughkeepsie
Mahler, R. J. (A)
Northrop, P. A. (A)
Pickarski, S. (A)
Sherman, H. (A)

Riverhead
Atwood, J. B. (A)
Braaten, A. M. (M)
Craumer, H. S. (A)
Crosby, M. G. (M)
George, R. W. (A)
Goddard, D. R. (A)
Hansell, G. E. (A)
Lindow, I. L. (A)
Maclean, K. G. (A)
Moore, H. A. (A)
Peterson, H. O. (F)
Rundquist, E. C. (A)
Schock, R. E. (A)
Schoenborn, F. J. W. (A)
Seymour, B. (M)
Wickizer, G. S. (A)
Winans, P. V. (A)

Rochester
Anderson, R. S. (A)
Angvine, O. L., Jr. (A)
Bellor, W. F. (A)
Biggar, R. A. (A)
Bauer, H. H. (A)
Brown, W. J. (A)
Chalmers, E. D. (A)
Chesna, J. (A)
Cotter, W. F. (A)

Driscoll, G. S. (A)
Finnigan, C. W. (A)
Freck, R. H. (A)
Gano, A. S. (A)
Goldberg, H. (A)
Gordon, H. E. (A)
Hanover, E. A. (A)
Haupt, G. H. (A)
Henderson, K. L. (A)
Holstrom, A. (A)
Huntington, M. B. (A)
Jackson, B. (A)
Karker, E. C. (A)
Klumb, H. J. (A)
Levy, M. L. (A)
McCanne, L. (A)
Manson, R. H. (F)
Newton, A. E. (A)
O'Brien, C. C. (A)
O'Brien, J. C. (A)
Rice, H. E. (A)
Rodgers, J. A. (A)
Schoen, A. L. (A)
Sheve, H. C. (A)
Talpey, R. G. (A)
Town, G. R. (A)

Rockville Center
Cardwell, A. D. (A)
Gintion, E. L. (A)
Harper, A. E. (M)
Hinnert, F. A. (F)
Leuteritz, H. C. (A)
Popkin-Clurman, J. R. (A)
Schabbehar, E. A. (A)
Uzmann, J. G. (M)

Rocky Point
Clifton, B. S. Y. (M)
Cook, C. P. (A)
Fransworth, E. P. (J)
Goldstine, H. E. (A)
Peterson, L. E. (A)
Sheffield, J. B. (A)
Usselman, G. L. (A)
Watson, C. W. (A)
Young, L. L. (A)

Rome
Bevitt, W. D. (A)

Roseton
Adachi, W. Y. (A)

Roslyn Heights
Seeley, S. W. (M)

Sayville
Hart, F. A. (A)

Scarsdale
Appel, J. H., Jr. (A)
Fearing, J. L. (A)

Schenectady
Abraham, I. C. (A)
Ahern, W. R. (A)
Alexanderson, E. F. W. (F)

Andrews, P. D. (M)
Arteson, C. A. (A)
Bachman, C. H. (A)
Bailey, F. M. (A)
Baldwin, C. F. (M)
Bartelink, E. H. (M)
Bersbach, A. J. (A)
Bracic, M. M. (A)
Brelsford, H. (A)
Broughton, W. G. (A)
Brown, W. W. (M)
Campbell, C. M., Jr. (A)
Copp, J. H. (A)
Crosby, H. M. (A)
Cummings, M. M. (A)
David, W. R. (A)
Deerhake, F. M. (A)
Dewalt, K. C. (A)
Downie, J. W. (M)
Dunton, G. H. (A)
Earls, H. G. (A)
Fick, C. G. (A)
Ford, W. A. (M)
Fritschel, E. H. (A)
Gardner, G. F. (A)
Garratt, P. M. (A)
Goetter, W. F. (A)
Grover, F. W. (M)
Gurewitsch, A. M. (A)
Haefer, S. J. (A)
Haley, S. C. (A)
Henyan, G. W. (A)
Hieble, M. E. (A)
Hodges, A. R. (M)
Hogg, J. E. (A)
Hooper, J. R., Jr. (A)
Hull, A. W. (M)
Jenks, D. W. (A)
Jensen, R. C. (A)
Johnson, T. C. (M)
Junkin, L. H. (A)
Kenefake, E. W. (A)

King, E. F. (A)
Kluender, E. C. (A)
Larrie, C. V. (A)
Lavoo, N. (A)
Lee, F. S. (M)
Leeds, L. M. (M)
Longfellow, R. C. (A)
Manke, A. G. (A)
Marvin, H. B. (M)
Mayer, H. F. (A)
Mayer, I. S. (A)
Maynard, J. E. (A)
Mead, M. S., Jr. (A)
Meahl, H. R. (A)
Metcalf, G. F. (M)
Michel, P. C. (A)
Newton, R. A. (A)
Norgaard, D. E. (A)
Ogle, H. M. (A)
Patterson, F. G. (A)
Pennoyer, R. T. (A)
Pike, O. W. (M)
Pinkerton, D. C. (A)
Potter, J. T. (A)
Priest, C. A. (M)
Purcell, W. J. (A)
Ramo, S. (A)
Reinsmith, G. M. (A)
Reque, S. G., Jr. (A)
Reynolds, F. M. (A)
Rhodchamel, A. J. W. (A)

White Plains
Barnes, J. C. (A)
Griggs, E. V. (A)
Kenyon, F. R. (A)
Lamarque, J. W. (A)
Spaulding, F. E., Jr. (A)

Williamsburg
Kuhn, H. G. (A)
Pifer, M. J. (A)
Pontius, J. C. (A)

Windsor
Decker, G. A. (A)

Yonkers
Campbell, J. A. (A)
Caselli, V. J. (J)
Eilenberg, C. (A)
Hornung, J. L. (M)
Latzner, R. I. (J)
Looney, L. A. (A)
Runyon, C. R., Jr. (A)

Asheville
Galyean, M. W. (A)

Camp Davis
Lechman, O. (A)

Charlotte
Beloungy, J. J. (M)
Howell, E. R., Jr. (J)
Ramsey, R. W. (A)
Stewart, A. E. (A)

Durham
Dalton, R. A. (A)
Seeley, W. J. (A)

Fort Bragg
Freeman, H. L. (A)
Palik, F. (A)

Greensboro
Marteen, J. M. (A)

Raleigh
Brown, S. H. (A)
Browning, W. P. (A)
Hulick, H., Jr. (A)

Rocky Mount
Murphy, I. G. (A)

Wilmington
Cowperthwait, H. S. (A)

Winston-Salem
Smith, C. M., Jr. (A)

NORTH DAKOTA
Fargo
Hetland, J. M. (A)

Grand Forks
Kees, H. (A)
O'Brien, E. J. (A)

Jamestown
Amoo, L. R. (A)

OHIO
Akron
Birdsall, W. B. (A)
Bosomworth, G. P. (A)
Huffman, E. B. (A)
Smith, P. C. (A)

Alliance
Turner, P. M. (A)

Ashtabula
Bernato, F. N. (A)
Gautney, G. E. (A)
Morrison, D. G. (A)

Athens
Green, D. B. (A)

Barberton
Austin, A. O. (F)

Tuxedo Park
Loomis, A. L. (M)

Valhalla
Mead, R. F. (A)

Valley Stream
Harley, J. B. (A)
Vollkommer, W. A. (A)

Water Mill
Corwith, H. P. (M)

Watervliet
Norvik, F. J. (A)

Westbury
Eldredge, E. E. (A)

West Point
Gillette, E. C. (A)

Bedford
Heintz, R. M. (F)
Jerome, W. R. (A)
Weiss, W. A. (A)
Makinson, G. E. (A)

Beloit
Sedon, P. H. (A)

Blanchester
Saville, H. F. (A)

Bluffton
Croner, A. J. (A)

Brecksville
Banfer, K. J. (A)
Clark, H. L. (A)
Everett, F. C. (A)

Bucyrus
Strickler, W. A., Jr. (A)

Canton
Leist, L. G. (A)
Phillips, W. M. (A)
Walker, N. S. (A)

Chevyot
Felix, C. G. (A)

Chilllicothe
McCoppin, E. R. (A)

Cincinnati
Alberts, W. S. (A)
Anderson, C. W. (A)
Bereskin, A. B. (A)
Bruck, G. G. (A)
Bussard, E. J. H. (M)
Clement, L. H. (M)
Crosley, P. Jr. (M)
Davis, G. A. (A)
Duncan, J. R. (A)
Gieringer, C. K. (A)
Gillette, A. D. (A)
Herweh, A. C. (A)
Hollis, J. L. (A)
Huber, H. E. (A)
Jordan, D. M. (A)
Kilgour, C. E. (M)
King, F. W. (A)
Knoblauch, A. F. (A)
Kols, R. H. (A)
Konkle, P. J. (A)
Lehno, R. G. (A)
Lepple, H. (A)
Leydorf, G. F. (A)
Lockwood, E. C. (A)
McDonald, J. M. (A)
Nason, D. H. (A)
Noble, H. V. (M)
Osterbrock, W. C. (M)
Platts, G. M. (A)
Pontecorvo, P. D. (A)
Redfield, A. D. (A)
Rockwell, R. J. (M)
Sarashin, H. M. (A)
Schenck, R. L. (A)
Schwerling, A. G. (A)
Schwesinger, W. L. (A)
Sloan, C. B. (A)
Stoecker, W. K. (A)
Suter, H. (A)
Wedig, F. L., Jr. (A)
Welsher, C. E. (A)
Wissel, F. A. (A)
Young, P. A. (A)

Cleveland
Ackerman, E. K. (A)
Akers, W. F. (A)
Baerwald, H. G. (A)
Benkelman, G. F. (A)
Borditch, F. T. (A)
Carmant, A. B. (A)
Casky, H. B. (A)
Chatterton, L. N. (A)
Checks, J. A. (A)
Cornell, P. M. (A)
David, B. W. (M)
Engholm, B. A. (M)
Fish, P. (A)
Flack, S. G. (A)
Gove, E. L. (M)
Hoover, P. L. (M)
Jerauld, A. N. (A)
Jones, C. B. (A)
Kline, R. L. (A)
Kres, A. J. (A)
Leonard, S. E. (M)
Marsal, P. A. (A)
McMahon, A. (A)
Miller, W. A. (A)
Myers, W. D. (A)
Nace, A. S. (A)
Ober, H. E. (A)
Okeson, H. B. (A)
Ostrander, R. (A)
Pierce, R. M. (M)
Pitzer, J. H. (A)

Columbus
Bertram, S. (A)
Doebele, J. (A)
Everitt, W. L. (F)
Hayden, J. R. (A)
Higgy, R. C. (A)
Jordan, E. C. (A)
Nalizer, L. H. (A)
Nelson, P. H. (M)
Scott, F. A. (A)
Sinclair, G. (A)
Stielman, R. J. (A)
Young, D. A. (A)

Cortland
Willms, G. (A)

Cuyahoga Falls
Aikenhead, J. Jr. (A)
Du Bois, W. R. (A)

Dayton
Apple, R. C. (A)
Braverman, N. (A)
Carpenter, F. H. (A)
Conrad, C. G. (A)
Crom, G. C., Jr. (M)
Cummings, A. P. (A)
Eaton, W. G. (M)
Eckert, C. C. (A)
Frazier, R. E. (A)
Gardner, F. H. (A)
General, J. H. (A)
Gerks, I. H. (M)
Goldman, A. B., Jr. (A)
Hallman, G. L. (M)
Haller, G. L. (M)
Hanser, P. D. (A)
Hendricks, L. A. (A)
Herson, J. L. (A)
Huff, J. L. (A)
Jacobs, M. (A)
Kerns, D. M. (A)
Keto, J. E. (A)
Kilheffer, L. D. (A)
Kuhlman, P. W. (A)
Lee, H. E. (A)
Lyons, L. E., Jr. (A)
Marshall, C. J. (A)
Meyer, M. A. (A)
Moseley, F. L. (A)
Nelson, N. A. (A)
Noble, J. C. (A)
Peters, A. L., Jr. (A)
Retter, C. T. (A)
Richmond, L. P. (A)
Robb, D. E. (A)
Roddy, V. S. (A)
Rychlik, R. F. (A)
Schultz, F. F. (A)
Seifert, F. F. (A)
Spencer, S. W. (A)
Swenson, L. G. (A)
Taylor, P. B. (M)
Warriner, R. R. (A)
Wehner, G. L. (A)
Welker, J. W. (A)
Yolles, J. (A)

East Liverpool
Draper, C. A. (A)

Elyria
Boyd, D. L. (A)
Finegold, I. (A)
Smith, C. W. (A)

Englewood
Hoffstetter, G. I. (A)

Euclid
Russell, C. C. (A)

Fostoria
Bishop, B. E. (A)

Gallon
Shucy, P. F. (A)

Granville
Marlow, W. C., Jr. (A)

Greenhills
Jordan, J. F. (A)

Greentown
Myers, W. D. (A)

Hamilton
Stage, S. A. (A)

Ironton
Loftis, H. J. (A)

Lakewood
Bidlack, C. S. (A)
Dutton, C. E. (A)
Grostick, G. E. (A)
Hamman, G. B. (A)
Kendig, C. A. (A)
Satterthwaite, W. F. (A)
Stoffel, L. L. (A)
Ulrich, J. F. (A)

Lorain
Dohosy, J. F. (A)
Heisner, D. A. (A)

Marletta
Manley, E. (A)

Mason
Woodward, R. O. (A)

Massillon
Schwab, C. B. (A)

Middletown
Rutts, R. S. (A)
Christner, E. N. (A)
Runge, J. N. (A)

Minerva
Rue, H. E. (A)

Mingo Junction
Crisante, A. E. (A)

Mount Healthy
Reid, J. D. (A)
Wells, M. M. (A)

Newark
Collis, H. O. (A)

New Carlisle
Lower, R. (A)

North Canton
Duff, J. E. (A)
Stahl, M. D. (A)

North Olmstead
Pruitt, W. C. (A)

Parma
Hutton, W. G. (A)

Piqua
Drake, R. L. (A)

Port Clinton
Andresen, G. J. C. (A)

Sandusky
Kenyon, H. S. (A)

Sidney
Boethel, K. W. (A)

South Akron
Brennan, L. J. (A)

South Euclid
Atwater, W. H. (A)

Springfield
Kurtz, A. W. (A)
Olmart, P. E. (A)

Steubenville
Troesch, J. M. (A)

Sugar Creek
Hersberger, W. O. (A)

Toledo
Bitter, A. R. (A)
B

PENNSYLVANIA

Emporium (cont.)

Ellefson, B. S. (A)
 Forman, J. (A)
 Freeman, W. C. Jr. (A)
 Gessford, R. K. (A)
 Glantz, L. L. (A)
 Goodwin, V. D. (A)
 Graham, V. M. (F)
 Gunnell, G. T. (A)
 Haas, P. (A)
 Harvey, N. L. (A)
 Hoffman, E. J. (A)
 Imboden, G. J. (A)
 Ishler, H. K. (A)
 Johnson, H. D. (A)
 Jones, W. R. (M)
 Jordan, A. D. (A)
 Kahl, E. (A)
 Kahl, M. L. (M)
 Keen, A. W. (M)
 Kerstetter, D. R. (A)
 Kiebitz, B. L. (M)
 Klinefelter, G. H. (A)
 Kral, W. L. (M)
 Langstroth, F. D. (M)
 Lucas, J. T. (A)
 Mahaffy, G. N. (A)
 McClintock, R. K. (M)
 Melzer, H. (A)
 Moncton, H. S. (A)
 Mueller, W. P. (A)
 O'Neill, G. D. (A)
 Ottmiller, W. H., Jr. (A)
 Overmier, E. E. (A)
 Palmateer, R. E. (A)
 Palmer, R. N. (M)
 Ratchford, H. L. (A)
 Reash, C. W. (A)
 Reitz, N. J. (A)
 Riehl, G. L. (A)
 Schilling, M. O. (A)
 Schneider, E. J. (A)
 Shope, C. E. (A)
 Smith, C. R. (M)
 Smith, D. R. (A)
 Smithgall, H. E., Jr. (A)
 Steen, J. R. (M)
 Stringfellow, G. O. (A)
 Vergason, D. L. (A)
 Weiss, M. E. (A)
 Weiss, W. A. (A)
 Wellendorf, J. J. (A)
 West, L. E. (M)
 Wise, R. M. (F)
 Yeaton, E. C. (A)
 Zelt, R. J. (A)
 Zwald, J. J. (A)
 Erie
 Biley, F. D. (A)
 Maida, F. X. (A)
 Minnium, B. B. (A)
 Raub, L. A. (A)
 Schlaudecker, R. T. (A)
 Wolfskill, J. M. (A)
 Etna
 Klee, G. F. (A)
 Flourtown
 Ellsworth, W. C. (M)
 Stenzel, E. R. (A)
 Wannamaker, W. H., Jr. (A)
 Fort Washington
 Schantz, J. S. (A)
 Fox Chase
 Frear, W. (A)
 Freeland, E. C. (A)
 Macfadden, W. C. (A)
 Matthews, A. C. (A)
 Fox Chase Manor
 Hoffer, H. N. (A)
 Germantown
 Benge, J. R. (A)
 Glenlyon
 Hoffman, W. (A)
 Glenside
 Bamford, H. S. (A)
 Hilliard, D. M. (A)
 Leonard, A. A. (A)
 Miller, A. C. (A)
 Young, C. P. (A)
 Graplan
 Moore, W. R. (A)
 Greensburg
 Binkley, R. A. (A)
 Stark, R. E. (A)
 Harrisburg
 Detweiler, J. E. (A)
 Drumheiser, A. W. (A)
 Duncan, R. S. (A)
 Marshall, B. T. (A)

Haverford
 Crawford, A. L., Jr. (A)
 Rittenhouse, L. H. (A)
 Hollywood
 Vance, D. H. (A)
 Honesdale
 Woodward, B. J. (A)
 Huntingdon Valley
 Spielman, S. C. (A)
 Indiana
 Hitchcock, R. C. (M)
 Irwin
 Brook, A. (A)
 Jenkintown
 Clark, W. R. (A)
 Johnstown
 Kocsan, E. S. (A)
 Lancaster
 Beck, B. G. (A)
 Mathiot, J. E. (A)
 Langhorne
 Newbold, W. H. (A)
 Lansdowne
 Brumbaugh, J. M. (M)
 Lemoine
 Smiley, W. A. (A)
 Lynnpport
 Klingaman, G. W. (A)
 Mahanoy City
 Hudson, C. (A)
 Manoa
 Gengenbach, A. W. (A)
 Seitz, F. A. (A)
 Seitz, F. R. (A)
 Marsteller
 Lieb, J. M. (A)
 McKeesport
 McMillen, G. (A)
 Meadowbrook
 Grimes, D. (M)
 Walker, H. (A)
 Media
 Packard, C. A. (A)
 Merwood
 Airston, A. J. (A)
 Mount Airy
 McDowell, A. P., Jr. (A)
 Smith, D. B. (A)
 West, W. P. (A)
 Mount Lebanon
 Barton, J. P. (A)
 Shafer, W. L. (A)
 Shreve, A. F. (A)
 Narberth
 Ford, J. R. (A)
 Forstall, E. L. (A)
 McCoy, C. T. (A)
 Montgomery, A. P. (A)
 Nazareth
 Motta, N. (A)
 New Castle
 Martin, N. A. (A)
 Norristown
 Place, S. W. (A)
 Zern, R. T. (A)
 Orelan
 Thompson, E. O. (A)
 Overbrook Hills
 Bean, N. S. (A)
 Paoli
 Overmiller, C. M. (A)
 Perkasio
 Gerlach, G. G. (A)
 Moyer, L. K. (A)
 Philadelphia
 Albright, R. B. (A)
 Anderson, E. C. (M)
 Applegarth, A. R., Jr. (A)
 Pottstown
 Mellon, R. E. P. (A)
 Quakertown
 Leibe, F. A. (A)
 Reading
 Hornberger, J. E. (A)
 Landis, H. O. (A)
 Liesman, F. J. (A)
 Reday, P. W. (A)
 Rockledge
 Hopwood, A. M., Jr. (A)
 Rutledge
 Clapp, R. G. (A)

Saint Marys
 Abbott, H. W. (A)
 Andrews, L. D. (A)
 Dressel, G. G. (A)
 Herrick, G. G. (A)
 Hoffman, R. R. (M)
 May, M. S. (A)
 McKnight, G. P. (A)
 Pierson, I. S. (A)
 Williams, H. A. (A)
 Scranton
 Witkowski, J. F. (A)
 Sharon
 Andrasko, J. P. (A)
 Heck, A. C. (A)
 Randolph, F. F. (A)
 Smethport
 Biever, F. H. (A)
 Spring City
 Wynn, J. C. (A)
 State College
 Crossley, G. L. (M)
 Greenaway, L. R. (A)
 Hall, F. T., Jr. (A)
 Williams, E. M. (A)
 Woodruff, E. C. (M)
 Stroudsburg
 Solomon, S. (A)
 Swissvale
 Bossart, P. N. (A)
 Tarentum
 Porter, H. F. (A)
 Uniontown
 Baker, H. F. (A)
 Upper Darby
 Marsten, J. (M)
 Showers, R. M. (A)
 Segal, B. (A)
 Teller, J. C. (A)
 Upper Strasburg
 Hoch, A. L. (A)
 Verona
 Muffy, G. (A)
 Warrington
 Clarence, A. L. (A)
 Washington
 Colosi, A. (A)
 Wayne
 Neill, W. E. (A)
 Wilkes-Barre
 Love, R. G. (A)
 Shuster, E. F. (A)
 Wilkinsburg
 Exner, D. W. (A)
 Lazich, B. (A)
 Mag, A. (A)
 Place, W. P. (A)
 Williamsport
 Kidd, G. B. (A)
 Persio, L. N. (A)
 Pettis, R. G. (A)
 Willow Grove
 Bowley, R. J. (A)
 Wynnewood
 Caulton, C. O. (A)
 Dohan, W. R. (A)
 Yeadon
 Fitzmorris, S. R. (A)
 Pamphilon, L. E. (A)
 York
 Goodling, G. C., Jr. (A)
 Lever, P. R. E. (A)
 RHODE ISLAND
 Newport
 Brooks, G. W. (A)
 Pawtucket
 Thornley, H. W. (A)
 Portsmouth
 Hoar, J. (A)
 Rich, G. C. (A)
 Providence
 Aymar, E. (A)
 Dandreta, W. (A)
 Wakefield
 Taylor, A. R. (A)
 SOUTH CAROLINA
 Clemson
 Tingley, F. T. (A)
 Charleston
 Bailey, J. H. (A)

Columbia
 Cosby, J. C. (A)
 Dominick, J. (A)
 Zitzman, K. F. (A)
 Florence
 Wallace, R. M. (A)
 Fort Jackson
 Janowsky, R. H. (A)
 Greenville
 Moeller, C. S. (A)
 North Charleston
 Hudson, C. O. (A)
 Smoaks
 Carter, H. M., Jr. (A)
 Spartanburg
 Bennett, R. S. (A)
 West Columbia
 Thoman, C. A. (A)
 West Greenville
 Pike, W. N. (A)
 SOUTH DAKOTA
 Pierre
 Craig, R. B. (A)
 Yankton
 Todd, C. (A)
 TENNESSEE
 Bean Station
 Collette, J. T. (A)
 Chattanooga
 Baker, R. F. (A)
 Swingle, T. M. (A)
 Thurnauer, H. (A)
 Johnson City
 Garland, O. K. (A)
 Kingsport
 Pike, W. N. (A)
 Knoxville
 Adcock, S. E. (A)
 Bradley, J. A. (A)
 Epperson, J. B. (M)
 Hardin, R. O. (A)
 Hinsdale, E. M., Jr. (A)
 Shipley, E. D. (A)
 Memphis
 King, C. J., Jr. (A)
 Slavick, H. W. (A)
 Thompson, T. (A)
 Nashville
 Campbell, J. S. (A)
 Child, V. E. (A)
 Doll, H. G. (M)
 Dupree, E. M. (M)
 Franklin, R. E. (A)
 Gardner, D. H. (A)
 Goddard, E. G. (A)
 Honnell, P. M. (M)
 Houston, C. E. (A)
 Huston, O. H. (A)
 Kannenstine, F. M. (A)
 McConnell, H. E. (A)
 Miller, G. K. (A)
 Robinson, K. H. (A)
 Sears, G. (A)
 Smith, L. C., Jr. (A)
 Van Wambeek, S. H. (A)
 Wheeler, H. T. (A)
 Wischmeyer, C. R. (A)
 Kingsville
 Higgins, F. V. (A)
 Laredo
 Daniels, T. E. (A)
 Lubbock
 Hewitt, R. C. (A)
 Torrey, W. H. (A)
 Pasadena
 Hiner, T. L. (A)
 Pharr
 Cuesta, N., Jr. (A)
 San Angelo
 Ragsdale, M. M. (A)
 San Antonio
 Egerton, W. G. (A)
 Hallam, J. T. (A)
 Imle, J. E. (A)
 Jeffers, C. L. (A)
 Parr, J. O., Jr. (A)
 Wall, L. D. (A)
 Waco
 Aymond, E. F. (A)
 Barritt, N. F. (A)
 Beam, R. E. (A)

Bresenham, J. J., Jr. (A)
 Broding, R. (A)
 Burg, K. E. (A)
 Chapman, A. B. (A)
 Chatfield, J. K. (A)
 Collins, R. (A)
 Crowe, H. H. (A)
 Cullum, A. E., Jr. (A)
 Daniell, C. M. (A)
 Flynn, R. M. (M)
 Heard, B. E. (A)
 Hill, H. C. (A)
 Hill, J. O. (A)
 Hollifield, W. N. (A)
 Hunt, J. (A)
 Mathis, J. D. (M)
 May, L. W., Jr. (A)
 McCabe, L. L. (M)
 McDermott, E. (A)
 McNelly, J. S. (A)
 Minton, J. P. (F)
 Mitchell, W. R. (A)
 Newton, W. W. (A)
 Paslay, L. C. (A)
 Penn, W. D. (A)
 Peterson, D. A. (A)
 Renner, D. S. (A)
 Ross, C. C. (A)
 Schley, W. H. (A)
 Sellers, J. E. (A)
 Sorkin, S. A. (A)
 Tucker, D. J. (M)
 Whitaker, J. (A)
 Witty, W. M. (A)
 Zeidler, W. J. (A)
 Zeigler, B. F., Jr. (A)
 Del Rio
 Cammack, W. R. (A)
 Weldon, J. O. (A)
 El Paso
 Gemoets, E. L. (A)
 Parker, T. E. (A)
 Talbot, E. P. (A)
 Fort Worth
 Applegate, H. E. (A)
 Benzon, C. G. (A)
 Currie, W. O. (A)
 Flynn, J. G., Jr. (A)
 Kimzey, T. (A)
 Palmer, J. E. (A)
 Turner, J. S. (A)
 Unruh, F. T. (A)
 Galveston
 Baird, G. H. (A)
 Grapevine
 Barnes, P. C. (A)
 Houston
 Caplan, R. S. (A)
 Child, V. E. (A)
 Doll, H. G. (M)
 Dupree, E. M. (M)
 Franklin, R. E. (A)
 Gardner, D. H. (A)
 Goddard, E. G. (A)
 Honnell, P. M. (M)
 Houston, C. E. (A)
 Huston, O. H. (A)
 Kannenstine, F. M. (A)
 McConnell, H. E. (A)
 Miller, G. K. (A)
 Robinson, K. H. (A)
 Sears, G. (A)
 Smith, L. C., Jr. (A)
 Van Wambeek, S. H. (A)
 Wheeler, H. T. (A)
 Wischmeyer, C. R. (A)
 Kingsville
 Higgins, F. V. (A)
 Laredo
 Daniels, T. E. (A)
 Lubbock
 Hewitt, R. C. (A)
 Torrey, W. H. (A)
 Pasadena
 Hiner, T. L. (A)
 Pharr
 Cuesta, N., Jr. (A)
 San Angelo
 Ragsdale, M. M. (A)
 San Antonio
 Egerton, W. G. (A)
 Hallam, J. T. (A)
 Imle, J. E. (A)
 Jeffers, C. L. (A)
 Parr, J. O., Jr. (A)
 Wall, L. D. (A)
 Waco
 Aymond, E. F. (A)
 Barritt, N. F. (A)
 Beam, R. E. (A)

Wichita Falls
 Adams, J. (A)
 Drabik, E. J. (A)
 Robertson, W. W., Jr. (A)
 UTAH
 Garland
 Burton, E. B. (A)
 Ogden
 Cozzens, W. D'O. (A)
 Salt Lake City
 Baldwin, J. M. (M)
 Graham, E. (A)
 Groves, W. E. (A)
 Haycock, O. C. (A)
 Woods Cross
 Bartholomew, D. (A)
 VERNONT
 North Clarendon
 Roberts, E. L. (A)
 Northfield
 Howes, D. E. (A)
 Poulney
 Mingins, C. R. (A)
 VIRGINIA
 Alexandria
 Dowie, J. A. (M)
 Greenleaf, S. A. (A)
 Hayes, R. S. (A)
 Hobart, T. D. (A)
 Hopkinson, T. W. (A)
 Kaserman, F. S. (A)
 Meier, W. L. (A)
 Stuckert, E. M. (A)
 Arlington
 Anthony, A. R. (A)
 Blackman, C. P. (A)
 Bond, C. H. (M)
 Brimberg, M. M. (A)
 Burroughs, H. A. (A)
 Clark, C. F. (A)
 Clark, S. F. (A)
 Cohen, L. (F)
 Cole, N. D. (A)
 Dickson, D. H., Jr. (A)
 Dunphy, H. H. (A)
 Ennis, A. G. (A)
 Gaud, W. T. (A)
 Hauber, E. N. (A)
 Herbstreit, J. W. (A)
 Hurley, H. C. (A)
 Kilpatrick, E. L. (A)
 Lattin, W. J. (A)
 Lee, J. M. (A)
 Markus, L. J. (A)
 McClenon, D. (A)
 Newsom, E. G. (A)
 Owen, C. H. (A)
 Preston, J. G. (A)
 Reinartz, J. L. (M)
 Renton, R. J. (A)
 Rone, J. R. (A)
 Rosen, L. (A)
 Schaff, R. H. (A)
 Smith, K. A. H. (A)
 Stephan, H. W. (A)
 Stokes, H. S. (A)
 Wheeler, L. B. (A)
 Blacksburg
 Bailey, R. E. (A)
 Bach, R. O. (A)
 Bark, R. S. (J)
 Barry, F. N. (A)
 Bernard, J. D. (A)
 Brott, F. J. (M)
 Brown, E. B. (A)
 Brudwig, A. H. (A)
 Byer, E. D. (A)
 Chase, R. F. (A)
 Cochran, L. B. (M)
 Crane, W. K. (A)
 Eastman, A. V. (F)
 Ellerbeck, K. H. (A)
 Estes, F. B. (A)
 Foster, N. H. (A)
 Freeman, G. A. (A)
 Fuqua, F. H. (A)
 Gleason, R. J. (M)
 Harrold, W. T. (A)
 Hatfield, F. (A)
 Herndon, L. C. (M)
 Herr, M. D. (A)
 Hoard, G. L. (M)
 Johnson, J. F. (A)
 Kistler, K. E. (A)
 Lawrence, J. C. (A)
 Libby, T. M. (M)
 Lind, P. C. (A)
 Linkletter, R. L. (A)
 Loughridge, D. H. (M)
 Norfolk
 Ayler, R. P., Jr. (A)
 Grether, J. L. (A)
 Hallstein, N. A. (A)
 Parr, J. O., Jr. (A)
 Wall, L. D. (A)

Partis, G. (A)
 Quement, F. J. (A)
 Ruhnberger, J. (A)
 Szelata, F. (A)
 Portsmouth
 Bailey, W. B. (A)
 Friel, F. J., Jr. (A)
 Thomas, E. U. (A)
 Profit
 Quarles, L. R. (M)
 Quantico
 Hieronymus, J. (A)
 Richmond
 Avery, R. D. (A)
 Bailey, R. C. (A)
 Eubank, R. N. (A)
 Frank, F. O. (A)
 Gauss, H. (A)
 Golding, R. M. (A)
 Kyle, J. W. (A)
 Wood, W. H. (A)
 Woods, D. C. (A)
 Zottu, P. D. (M)
 Roanoke
 Lemon, E. B. (A)
 South Roanoke
 Schaller, F. D. (A)
 WASHINGTON
 Bellingham
 Ernst, J. P. (A)
 Bremerton
 Hodson, W. G. (A)
 Morgenege, A. W. (A)
 Price, J. W. (A)
 Stover, A. R., Jr. (A)
 Wilson, G. F. (A)
 Burton
 Hatfield, J. B. (A)
 Ingraham, J. S. (A)
 College Place
 Kretschmar, G. G. (A)
 Fort Lewis
 Johnson, R. M. (A)
 Schauer, C. J. (A)
 White, F. E., Jr. (A)
 Longmire
 McFadden, R. R. (A)
 Manette
 Carter, R. H. (A)
 Gowdey, M. V. (A)
 Olympia
 Bleet, E. B. (A)
 Gamell, H. C. (A)
 Quantz, R. G. (A)
 Port Angeles
 Frost, F. N. (A)
 Port Blakely
 Benner, H. S. (A)
 Pullman
 Lickey, H. F. (A)
 Ritzville
 Norman, W. (A)
 Roslyn
 Giovannini, F. (A)
 Seattle
 Albrecht, J. F. (A)
 Bach, R. O. (A)
 Bark, R. S. (J)
 Barry, F. N. (A)
 Bernard, J. D. (A)
 Brott, F. J. (M)
 Brown, E. B. (A)
 Brudwig, A. H. (A)
 Byer, E. D. (A)
 Chase, R. F. (A)
 Cochran, L. B. (M)
 Crane, W. K. (A)
 Eastman, A. V. (F)
 Ellerbeck, K. H. (A)
 Estes, F. B. (A)
 Foster, N. H. (A)
 Freeman, G. A. (A)
 Fuqua, F. H. (A)
 Gleason, R. J. (M)
 Harrold, W. T. (A)
 Hatfield, F. (A)
 Herndon, L. C. (M)
 Herr, M. D. (A)
 Hoard, G. L. (M)
 Johnson, J. F. (A)
 Kistler, K. E. (A)
 Lawrence, J. C. (A)
 Libby, T. M. (M)
 Lind, P. C. (A)
 Linkletter, R. L. (A)
 Loughridge, D. H. (M)
 Norfolk
 Ayler, R. P., Jr. (A)
 Grether, J. L. (A)
 Hallstein, N. A. (A)
 Parr, J. O., Jr. (A)
 Wall, L. D. (A)

McCane, A. (A)
 Mendenhall, G. G. (A)
 Mossman, F. B. (A)
 Overmire, M. O. (A)
 Paterson, J. (A)
 Picken, J. C., Jr. (A)
 Preston, J. L. (M)
 Renfro, H. E. (A)
 Rost, E. J. (A)
 Runnells, T. R. (A)
 Smith, O. C. (A)
 Stimson, F. F. (A)
 Taylor, R. L. (A)
 Tolmie, J. R. (M)
 Wallace, J. (A)
 Williams, C. E. (M)
 Willson, A. R. (A)
 Wolfe, C. M. (A)
 Yorioka, U. (A)
 South Bellingham
 Lines, S. R. (A)
 Spokane
 Evans, C. W. (A)
 Keanan, W. J. (A)
 Maclean, T. W. (A)
 Marshall, F. M. (A)
 Smith, A. L. (A)
 Spaulding, A. G. (A)
 Storing, H. J. (A)
 Trebbly, F. J. (A)
 Tacoma
 Fisher, R. C. (A)
 Haase, W. D. (A)
 McDonough, D. M. (A)
 Temple, P. E. (A)
 Yakima
 Murphy, H. B. (A)
 Thompson, C. R. (A)
 WEST VIRGINIA
 Charleston
 Snyder, E. B. (M)
 Clarksburg
 Bedford, S., Jr. (A)
 Fairmont
 Jones, O. J. (A)
 Morgantown
 Colwell, R. C. (M)
 Seibert, C. B. (A)
 Short Creek
 McGlumphy, W. G. (A)
 West Liberty
 Boyd, H. R. (A)
 McClymonds, C. C. (A)
 Wheeling
 Boudry, G. G. (A)
 WISCONSIN
 Burlington
 Anderson, L. C. (A)
 Eau Claire
 Jorgenson, T. O. (A)
 Hurley
 Pedri, J. N. (A)
 Kenosha
 Eilenberger, S. D. (A)
 La Crosse
 Leeman, A. (A)
 Madison
 Bennett, E. (F)
 Kelley, W. V. (A)
 Koehler, G. (A)
 Mason, H. J. (A)
 Medford
 Williams, N. (A)
 Milwaukee
 Aicher, L. C. (A)
 Chelgren, A. (A)
 Eckert, F. A., Jr. (A)
 Gainer, W. P. (A)
 Gellerup, D. W. (A)
 Kaetel, H. C. (A)
 Laeser, F. B. (A)
 Lindenber, C. E. (A)
 Mathias, L. H. (A)
 Naughton, G. J. (A)
 Osajnicki, J. (A)
 Pfeiffer, J. W. (A)
 Richardson, M. S. (A)
 Rubinstein, H. W. (A)
 Sherwood, E. T. (A)
 Waring, H. F. (M)
 Weller, D. A. (A)
 Winkler, M. R. (A)
 Minocqua
 Martin, H. T. (A)

Racine
 Campbell, R. H. (A)
 Rice Lake
 Cook, C. (A)
 Sheboygan
 Mayer, H. J. (A)
 Superior
 Persons, C. B. (A)
 Waukesha
 Haag, M. W. (A)
 Hebal, W. H. (A)
 West DePere
 Jacobs, L. F. (A)
 WYOMING
 Cheyenne
 Grove, W. C. (A)
 Hartong, H. H. (A)
 Laramie
 Brown, C. W. (A)
 Rawlins
 Seaverson, O. I. (A)
 Sundance
 Clingan, H. E. (A)
 ALASKA
 Anchorage
 Holme, Wm. M. (A)
 Mayer, R. H. (A)
 Fairbanks
 Bennett, S. D. (A)
 Bramhall, E. H. (A)
 Swain, C. W. (A)
 Juneau
 Hoke, V. L. (A)

ARGENTINA
 Arnado, J. P. (M)
 Casanova, R. (A)
 Kechker, A. L. (A)
 McLoughlin, R. P. (A)
 Mingorance, F. M. (A)
 Nunez, J. A. R. (A)
 Preiser, G. W. (A)
 Susmansky, J. (A)
 Van Dyk, T. (A)
 Buenos Aires
 Alzona, A. L. (A)
 Andrews, G. J. (M)
 Archavala, J. M. (A)
 Baldwin, E. V. (A)
 Barbieri, M. (A)
 Baumann, K. (A)
 Benjamin, M. (A)
 Benmulez, J. (A)
 Calvelo, J. P. (A)
 Cambre, A. C. (A)
 Cook, W. A. (A)
 Cosentino, A. T. (F)
 Di Marco, C. (A)
 Dymond, R. C. (A)
 Fitch, W. L. (A)
 Fossati, L. R. (A)
 Gammalsson, E. G. A.
 Gil Giron, D. (A)
 Glattli, E. (A)
 Glucksmann, A. (A)
 Grant, I. C. (A)
 Grant, F. W. (A)
 Grant, I. C. (A)
 Groussot, W. (A)
 Gumpel, J. E. (A)
 Guntsche, G. E. (A)
 Gurra, A. (A)
 Harris, F. (A)
 Hastings, R. (A)
 Hayes, G. W. (A)
 Hunt, G. (A)
 Jurovitzky, M. (A)
 Kapus, E. E. (M)
 Klappenbach, W. (A)
 Kline, L. (A)
 Kobitsky, M. J. (A)
 Krahenbuhl, H. (A)
 Labin, E. (A)
 Labin, E. (A)
 Laconca, F. (A)
 Lafon, J. B. (A)
 Malvarez, L. M. (A)
 Medina, A. M. (A)
 Molero, F. F. (A)
 Montellano, R. (A)
 Nadosy, A. (A)
 Noizeux, P. J. (A)
 Novics, B. (A)
 Orzabal, R. (A)
 Osorio, A. E. (A)
 Penin, R. L. (A)
 Rodriguez Burmester, E.
 R. (A)

PENNSYLVANIA

Emporium (cont.)
 Ellefson, B. S. (A)
 Forman, J. (A)
 Freeman, W. C. Jr. (A)
 Gessford, R. K. (A)
 Glantz, L. L. (A)
 Goodwin, V. D. (A)
 Graham, V. M. (F)
 Gunnell, G. T. (A)
 Haas, P. (A)
 Harvey, N. L. (A)
 Hoffman, E. J. (A)
 Imboden, G. J. (A)
 Ishler, H. K. (A)
 Johnson, H. D. (A)
 Jones, W. R. (M)
 Jordan, A. D. (A)
 Kahl, E. (A)
 Kahl, M. I. (M)
 Keen, A. W. (M)
 Kerstetter, D. R. (A)
 Kievit, B. (M)
 Kiser, N. L. (M)
 Klinefelter, G. H. (A)
 Kral, W. L. (M)
 Langstroth, F. D. (M)
 Lucas, J. T. (A)
 Mahaffy, G. N. (A)
 McClintock, R. K. (M)
 Melzer, H. (A)
 Moncton, H. S. (A)
 Mueller, W. P. (A)
 O'Neill, G. D. (A)
 Ottemiller, W. H. Jr. (A)
 Overmier, E. E. (A)
 Palmateer, R. E. (A)
 Palmer, R. N. (M)
 Ratcliff, H. L. (A)
 Reash, C. W. (A)
 Reitz, N. J. (A)
 Rishel, G. L. (A)
 Schilling, M. O. (A)
 Schneider, E. J. (A)
 Shope, C. E. (A)
 Smith, C. R. (M)
 Smith, D. R. (A)
 Smithgall, H. E. Jr. (A)
 Steen, J. R. (M)
 Stringfellow, G. O. (A)
 Vergason, D. L. (A)
 Weiss, M. E. (A)
 Weiss, W. A. (A)
 Wellendorf, J. J. (A)
 West, L. E. (M)
 West, R. M. (F)
 Yeaton, E. C. (A)
 Zelt, R. J. (A)
 Zwald, J. J. (A)

Erie
 Bliley, F. D. (A)
 Maida, F. X. (A)
 Minnium, B. B. (A)
 Raub, L. A. (A)
 Schlaudecker, R. T. (A)
 Wolfskill, J. M. (A)

Etna
 Kleeb, G. F. (A)

Flourtown
 Ellsworth, W. C. (M)
 Stenzel, E. R. (A)
 Wannamaker, W. H. Jr. (A)

Fort Washington
 Schantz, J. S. (A)

Fox Chase
 Frear, W. (A)
 Freeland, E. C. (A)
 Macfadden, W. C. (A)
 Matthews, A. C. (A)

Fox Chase Manor
 Hoffer, H. N. (A)

Germantown
 Bengt, J. R. (A)

Glenlyon
 Hoffman, W. (A)

Glenside
 Bamford, H. S. (A)
 Hilliard, D. M. (A)
 Leonard, A. A. (A)
 Miller, A. C. (A)
 Young, C. P. (A)

Grampian
 Moore, W. R. (A)

Greensburg
 Binkley, R. A. (A)
 Stark, R. E. (A)

Harrisburg
 Detweiler, J. E. (A)
 Drumheiser, A. W. (A)
 Duncan, R. S. (A)
 Marshall, B. T. (A)

Haverford
 Crawford, A. L. Jr. (A)
 Rittenhouse, L. H. (A)

Hollywood
 Vance, D. H. (A)

Honesdale
 Woodward, B. J. (A)

Huntingdon Valley
 Spielman, S. C. (A)

Indiana
 Hitchcock, R. C. (M)

Irwin
 Brook, A. (A)

Jenkintown
 Clark, W. R. (A)

Johnstown
 Kocsan, E. S. (A)

Lancaster
 Beck, B. G. (A)
 Mathiot, J. E. (A)

Langhorne
 Newbold, W. H. (A)

Lansdowne
 Brumbaugh, J. M. (M)

Lemoyne
 Smiley, W. A. (A)

Lynnport
 Klingaman, G. W. (A)

Mahanoy City
 Hudson, C. (A)

Manoa
 Gengenbach, A. W. (A)
 Seitz, F. A. (A)
 Seitz, F. R. (A)

Marsteller
 Lieb, J. M. (A)

McKeesport
 McMillen, G. (A)

Meadowbrook
 Grimes, D. (M)
 Walker, H. (A)

Media
 Packard, C. A. (A)

Merwood
 Airston, A. J. (A)

Mount Airy
 McDowell, A. P. Jr. (A)
 Smith, D. B. (A)
 West, W. P. (A)

Mount Lebanon
 Barton, J. P. (A)
 Shafer, W. L. (A)
 Shreve, A. F. (A)

Narberth
 Ford, J. R. (A)
 Forstall, E. L. (A)
 McCoy, C. T. (A)
 Montgomery, A. P. (A)

Nazareth
 Motta, N. (A)

New Castle
 Martin, N. A. (A)

Norristown
 Place, S. W. (A)
 Zern, R. T. (A)

Oreland
 Thompson, E. O. (A)

Overbrook Hills
 Bean, N. S. (A)

Paoli
 Overmiller, C. M. (A)

Perkasie
 Gerlach, G. G. (A)
 Moyer, L. K. (A)

Philadelphia
 Albright, R. B. (A)
 Anderson, E. C. (M)
 Applegarth, A. R. Jr. (A)

Pottstown
 Mellon, R. E. P. (A)

Quakertown
 Leibe, F. A. (A)

Reading
 Hornberger, J. E. (A)
 Landis, H. O. (A)
 Liesman, F. I. (A)
 Redcay, P. W. (A)

Rockledge
 Hopwood, A. M. Jr. (A)

Rutledge
 Clapp, R. G. (A)

Caporale, P. (A)
Chambers, C. C. (A)
Cogswell, W. P. (A)
Cohen, A. B. (A)
Craven, C. L. (A)
Denk, W. E. (A)
Dunn, J. C. (A)
Earnshaw, D. P. (A)
Eaton, G. W. (A)
Edwards, C. L. (A)
Ehret, C. D. (F)
Ellis, W. G. (M)
Esuchen, F. G. (A)
Etken, H. A. (A)
Frekot, J. J. (A)
Friedman, M. (A)
Gilbert, W. E. (A)
Godsho, A. P. (A)
Grimditch, W. H. (M)
Hagerly, G. E. (A)
Hamilton, S. (A)
Hatchwell, J. W. (A)
Herman, O. R. (A)
Hervey, J. P. (A)
Jackson, J. J. (A)
Jones, G. I. (M)
Kearney, L. E. (A)
Kinnier, D. (A)
Kraus, C. R. (A)
Kraus, F. A. (A)
Kyne, T. (A)
Lappin, L. S. (A)
Lakatos, L. L. (A)
Leitch, J. G. (M)
Lewis, G. (A)
Lichtman, S. W. (A)
McKinley, R. Jr. (A)
Milbourne, S. C. (A)
Miller, E. (A)
Moore, R. C. (A)
Mural, F. (A)
Mouradian, H. (A)
Murri, J. (A)
Neuber, H. K. (A)
Nygren, A. (A)
Parnell, J. (A)
Payne, J. F. Jr. (A)
Plotkin, M. (A)
Rich, E. S. (A)
Robinson, H. A. (M)
Rowe, C. R. (M)
Ruben, H. (A)
Sabarroff, S. (A)
Shannon, F. W. Sr. (A)
Sanders, E. W. (A)
Siegel, A. T. (A)
Stee, C. L. (A)
Tarpley, R. E. (A)
Tarzan, V. (A)
Tourshou, S. (A)
Tuska, C. D. (M)
Van Horn, J. C. (M)
Walker, G. S. D. (A)
Warshaw, H. D. (A)
Waterman, W. (A)
Weise, R. C. (A)
Williams, A. J. Jr. (A)
Williams, J. F. (A)
Wyeth, F. H. (A)

Saint Marys
 Abbott, H. W. (A)
 Andrews, L. D. (A)
 Dressel, H. (A)
 Herrick, G. G. (A)
 Hoffman, R. R. (M)
 May, M. S. (A)
 McKnight, G. P. (A)
 Pierson, I. S. (A)
 Williams, H. A. (A)

Scranton
 Witkowski, J. F. (A)

Sharon
 Andrasco, J. P. (A)
 Heck, A. C. (A)
 Randolph, F. F. (A)

Smethport
 Biever, F. H. (A)

Spring City
 Wynn, J. C. (A)

State College
 Crossley, G. L. (M)
 Greenaway, L. R. (A)
 Hall, F. T. Jr. (A)
 Williams, E. M. (A)
 Woodruff, E. C. (M)

Stroudsburg
 Solomon, S. (A)

Swissvale
 Bossart, P. N. (A)

Tarentum
 Porter, H. F. (A)

Uniontown
 Baker, H. F. (A)

Upper Darby
 Marsten, J. (M)
 Showers, R. M. (A)
 Segal, B. (A)
 Tellier, J. C. (A)

Upper Strasburg
 Hoch, A. L. (A)

Verona
 Muffy, G. (A)

Warrington
 Clarence, A. L. (A)

Washington
 Colosi, A. (A)

Wayne
 Neill, W. E. (A)

Wilkes-Barre
 Love, R. G. (A)
 Shuster, E. F. (A)

Wilkesburg
 Exner, D. W. (A)
 Lazich, B. (A)
 Mag, A. (A)
 Place, W. P. (A)

Williamsport
 Kidd, G. B. (A)
 Persio, L. N. (A)
 Petts, R. G. (A)

Willow Grove
 Bowley, R. J. (A)

Wynnewood
 Caulton, C. O. (A)
 Dohan, W. R. (A)

Yeadon
 Fitzmorris, S. R. (A)
 Pamphilon, L. E. (A)

York
 Goodling, G. C. Jr. (A)
 Lever, P. R. E. (A)

Columbia
 Cosby, J. C. (A)
 Dominick, J. (A)
 Zitzman, K. F. (A)

Florence
 Wallace, R. M. (A)

Fort Jackson
 Janowsky, R. H. (A)

Greenville
 Moeckler, C. S. (A)

North Charleston
 Hudson, C. O. (A)

Smocks
 Carter, H. M. Jr. (A)

Spartanburg
 Bennett, R. S. (A)

West Columbia
 Thoman, C. A. (A)

West Greenville
 Pike, W. N. (A)

SOUTH DAKOTA
 Pierre
 Craig, R. B. (A)

Yankton
 Todd, C. (A)

TENNESSEE
 Bean Station
 Collette, J. T. (A)

Chattanooga
 Bennington, R. F. (A)
 Swingle, T. M. (A)
 Thurnauer, H. (A)

Johnson City
 Garland, O. K. (A)

Kingsport
 Pike, W. N. (A)

Knoxville
 Adcock, S. E. (A)
 Bradley, J. A. Jr. (A)
 Epperson, J. B. (M)
 Hardin, R. O. (A)
 Hindsdale, E. M. Jr. (A)
 Shipley, E. D. (A)

Memphis
 King, C. J. Jr. (A)
 Slavick, H. W. (A)
 Thompson, T. (A)

Nashville
 Campbell, J. S. (A)
 Child, V. E. (A)
 Doll, H. G. (M)
 Dupree, E. M. (M)
 Franklin, R. E. (A)
 Gardner, D. H. (A)
 Goddard, E. G. (A)
 Honnell, P. M. (M)
 Houston, C. E. (A)
 Huston, O. H. (A)
 Kannenstine, F. M. (A)
 Lytle, T. M. (A)
 McConnell, H. E. (A)
 Miller, G. K. (A)
 Robinson, K. H. (A)
 Sears, G. (A)
 Smith, L. C. Jr. (A)
 Van Wambeek, S. H. (A)
 Wheeler, H. T. (A)
 Wischmeyer, C. R. (A)

Kingsville
 Higgins, F. V. (A)

Laredo
 Daniels, T. E. (A)

Lubbock
 Hewett, R. C. (A)
 Torrey, W. H. (A)

Pasadena
 Hiner, T. L. (A)

Pharr
 Cuesta, N. Jr. (A)

San Angelo
 Ragsdale, M. M. (A)

San Antonio
 Egerton, W. G. (A)
 Hallam, J. T. (A)
 Imle, J. F. (A)
 Jeffers, C. L. (A)
 Parr, J. O. Jr. (A)
 Wall, L. D. (A)

Crystal City
 Baker, J. H. Jr. (J)

Dallas
 Aymond, E. F. (A)
 Barritt, N. F. (A)
 Beam, R. E. (A)

Bresenham, J. J. Jr. (A)
Broding, R. (A)
Burg, K. E. (A)
Chapman, A. B. (A)
Chatfield, J. K. (A)
Collins, R. (A)
Crowe, H. H. (A)
Cullum, A. E. Jr. (A)
Daniell, C. M. (A)
Flynn, R. M. (M)
Heard, B. E. (A)
Hill, H. C. (A)
Hill, J. O. (A)
Hollifield, W. N. (A)
Hunt, J. D. (M)
Mathis, J. D. (M)
May, L. W. Jr. (A)
McCabe, L. L. (M)
McDermott, E. (A)
McNeely, J. S. (A)
Minton, J. P. (F)
Mitchell, W. R. (A)
Newton, W. W. (A)
Paslay, L. C. (A)
Penn, W. D. (A)
Peterson, D. A. (A)
Renner, D. S. (A)
Ross, C. C. (A)
Schley, W. H. (A)
Sellers, J. E. (A)
Sorkin, S. A. (A)
Tucker, D. J. (M)
Whitaker, J. (A)
Witty, W. M. (A)
Zeidler, W. J. (A)
Zeigler, B. F. Jr. (A)

Wichita Falls
 Adams, J. (A)
 Drabik, E. J. (A)
 Robertson, W. W. Jr. (A)

UTAH
 Garland
 Burton, E. B. (A)

Ogden
 Cozzens, W. D'O. (A)

Salt Lake City
 Baldwin, J. M. (M)
 Graham, E. (A)
 Groves, W. E. (A)
 Haycock, O. C. (A)

Woods Cross
 Bartholomew, D. (A)

VERMONT
 North Clarendon
 Roberts, E. L. (A)

Northfield
 Howes, D. E. (A)

Poultney
 Mingins, C. R. (A)

VIRGINIA
 Alexandria
 Dowie, J. A. (M)
 Greenleaf, S. A. (A)
 Hayes, R. S. (A)
 Hobart, T. D. (A)
 Hopkinson, T. W. (A)
 Kaserman, F. S. (A)
 Meier, W. L. (A)
 Stuckert, E. M. (A)

Arlington
 Anthony, A. R. (A)
 Blackman, C. P. (A)
 Bond, C. H. (M)
 Brimberg, M. M. (A)
 Burroughs, H. A. (A)
 Clark, C. F. (A)
 Clark, S. F. (A)
 Cohen, L. (F)
 Cole, N. D. (A)
 Dickson, D. L. (A)
 Dunphy, H. B. Jr. (A)
 Ennis, A. G. (A)
 Gues, E. T. (A)
 Hauber, E. N. (A)
 Herbstreit, J. W. (A)
 Hurley, H. C. (A)
 Kilpatrick, E. L. (A)
 Lattin, W. J. (A)
 Lee, J. M. (A)
 Markus, L. J. (A)
 McClenon, D. A. (A)
 Newsom, E. G. (A)
 Owen, C. H. (A)
 Preston, J. G. (A)
 Reinartz, J. L. (M)
 Renton, R. J. (A)
 Rone, J. R. (A)
 Rosen, L. (A)
 Schaal, R. H. (A)
 Simson, L. H. (A)
 Smith, K. A. H. (A)
 Stephan, H. W. (A)
 Stokes, H. S. (A)
 Wheeler, L. B. (A)

Blacksburg
 Bailey, R. E. (A)
 Bach, R. O. (A)
 Bark, R. S. (J)
 Barry, F. N. (A)
 Bernard, J. D. (A)
 Bratt, F. J. (M)
 Brown, E. B. (A)
 Brudwig, A. H. (A)
 Byer, E. D. (A)
 Chase, R. F. (A)
 Cochran, L. B. (M)
 Crane, W. K. (A)
 Eastman, A. V. (F)
 Ellerbeck, K. H. (A)
 Estes, F. B. (A)
 Foster, N. H. (A)
 Freeman, G. A. (A)
 Fuqua, F. H. (A)
 Gleason, R. J. (M)
 Harold, W. T. (A)
 Hatfield, F. (A)
 Herridon, L. C. (M)
 Herr, M. D. (A)
 Hoard, G. L. (M)
 Johnson, J. F. (A)
 Kistler, K. E. (A)
 Lawrence, J. C. (A)
 Libby, T. M. (M)
 Lind, P. C. (A)
 Linkletter, R. L. (A)
 Loughridge, D. H. (M)

Partis, G. (A)
Quement, F. J. (A)
Rubensberger, J. (A)
Szetela, F. (A)

Portsmouth
 Bailey, W. B. (A)
 Friel, F. J. Jr. (A)
 Thomas, E. U. (A)

Proffit
 Quarles, L. R. (M)

Quantico
 Hieronymous, J. (A)

Richmond
 Avery, R. D. (A)
 Bailey, R. C. (A)
 Eubank, R. N. (A)
 Franck, F. O. (A)
 Gaus, H. (A)
 Golding, R. M. (A)
 Kyle, J. W. (A)
 Wood, W. H. (A)
 Woods, D. C. (M)
 Zottu, P. D. (M)

Roanoke
 Lemon, E. B. (A)

South Roanoke
 Schaller, F. D. (A)

WASHINGTON
 Bellingham
 Ernst, J. P. (A)

Bremerton
 Hodson, W. G. (A)
 Jorgensen, A. W. (A)
 Price, J. W. (A)
 Stover, A. R. Jr. (A)
 Wilson, G. F. (A)

Burton
 Hatfield, J. B. (A)
 Ingraham, J. S. (A)

College Place
 Kretschmar, G. G. (A)

Fort Lewis
 Johnson, R. M. (A)
 Schuauers, C. J. (A)
 White, F. E. Jr. (A)

Longmire
 McFadden, R. R. (A)

Manette
 Carter, R. H. (A)
 Gowdey, M. V. (A)

Olympia
 Blett, E. B. (A)
 Gammeil, H. C. (A)
 Quantz, R. G. (A)

Port Angeles
 Frost, F. N. (A)

Port Blakely
 Benner, H. S. (A)

Pullman
 Lickey, H. F. (A)

Ritzville
 Norman, W. (A)

Roslyn
 Giovannini, F. (A)

Seattle
 Albrecht, J. F. (A)
 Bach, R. O. (A)
 Bark, R. S. (J)
 Barry, F. N. (A)
 Bernard, J. D. (A)
 Bratt, F. J. (M)
 Brown, E. B. (A)
 Brudwig, A. H. (A)
 Byer, E. D. (A)
 Chase, R. F. (A)
 Cochran, L. B. (M)
 Crane, W. K. (A)
 Eastman, A. V. (F)
 Ellerbeck, K. H. (A)
 Estes, F. B. (A)
 Foster, N. H. (A)
 Freeman, G. A. (A)
 Fuqua, F. H. (A)
 Gleason, R. J. (M)
 Harold, W. T. (A)
 Hatfield, F. (A)
 Herridon, L. C. (M)
 Herr, M. D. (A)
 Hoard, G. L. (M)
 Johnson, J. F. (A)
 Kistler, K. E. (A)
 Lawrence, J. C. (A)
 Libby, T. M. (M)
 Lind, P. C. (A)
 Linkletter, R. L. (A)
 Loughridge, D. H. (M)

McCane, A. (A)
Mendenhall, G. G. (A)
Mossman, F. B. (A)
Overmire, M. O. (A)
Paterson, J. (A)
Picken, J. C. Jr. (A)
Preston, J. L. (M)
Renfro, H. E. (A)
Rost, E. J. (A)
Runnells, T. R. (A)
Smith, O. C. (A)
Stimson, F. F. (A)
Taylor, R. L. (A)
Tolmie, J. R. (M)
Wallace, J. (A)
Williams, C. E. (M)
Willson, A. R. (A)
Wolfe, C. M. (A)
Yorlaka, U. (A)

South Bellingham
 Lines, S. R. (A)

Spokane
 Evans, C. W. (A)
 Keenan, W. J. (A)
 MacLean, T. W. (A)
 Marshall, F. M. (A)
 Smith, A. L. (A)
 Sparling, A. G. (A)
 Storms, H. J. (A)
 Trebbly, F. J. (A)

Tacoma
 Fisher, R. C. (A)
 Haase, W. D. (A)
 McDonough, D. M. (A)
 Temple, P. E. (A)

Yakima
 Murphy, H. B. (A)
 Thompson, C. R. (A)

WEST VIRGINIA
 Charleston
 Snyder, E. B. (M)

Clarksburg
 Bedford, S. Jr. (A)

Fairmont
 Jones, O. J. (A)

Morgantown
 Colwell, R. C. (M)
 Seibert, C. B. (A)

Short Creek
 McGlumphy, W. G. (A)

West Liberty
 Boyd, H. R. (A)
 McClmonds, C. C. (A)

Wheeling
 Boundy, G. G. (A)

WISCONSIN
 Burlington
 Anderson, L. C. (A)

Eau Claire
 Jorgenson, T. O. (A)

Hurley
 Pedri, J. N. (A)

Kenosha
 Eilenberger, S. D. (A)

La Crosse
 Leeman, A. (A)

Madison
 Bennett, E. (F)
 Kelley, W. V. (A)
 Koehler, G. (A)
 Mason, H. J. (A)

Medford
 Williams, N. (A)

Millwaukee
 Aicher, L. C. (A)
 Chelgren, A. (A)
 Eckert, F. A. Jr. (A)
 Gainer, W. P. (A)
 Gellerup, D. W. (A)
 Kaetel, H. C. (A)
 Laeser, P. B. (A)
 Lindenberg, C. E. (A)
 Matthias, L. H. (A)
 Naughton, G. J. (A)
 Osojnicki, J. (A)
 Pfeiffer, J. W. (A)
 Richardson, M. S. (A)
 Rubinstein, H. W. (A)
 Sherwood, E. T. (A)
 Wareing, H. F. (M)
 Weller, D. A. (A)
 Winkler, M. R. (A)

ARGENTINA
 Racine
 Campbell, R. H. (A)

Rice Lake
 Cook, C. (A)

Sheboygan
 Mayer, H. J. (A)

Superior
 Persons, C. B. (A)

Waukesha
 Haag, M. W. (A)
 Hebal, W. H. (A)

West DePere
 Jacobs, L. F. (A)

WYOMING
 Cheyenne
 Grove, W. C. (A)
 Hartong, H. H. (A)

Laramie
 Brown, C. W. (A)

Rawlins
 Seaverson, O. I. (A)

Sundance
 Clingan, H. E. (A)

ALASKA
 Anchorage
 Holme, Wm. M. (A)
 Mayer, R. H. (A)

Fairbanks
 Bennett, S. D. (A)
 Bramhall, E. H. (A)
 Swain, C. W. (A)

Juneau
 Hoke, V. L. (A)

ARGENTINA
 Arnaud, J. P. (M)
 Casanova, R. (A)
 Kechker, A. L. (A)
 McLoughlin, R. P. (A)
 Mingorance, F. M. (A)
 Nunez, J. A. R. (A)
 Preiser, G. W. (A)
 Susmansky, J. (A)
 Van Dyk, T. (A)

Buenos Aires
 Alzona, A. L. (A)
 Andrews, G. J. (M)
 Archavala, J. M. (A)
 Baldwin, E. V. (A)
 Barbieri, M. (A)
 Baumann, K. (A)
 Benjamin, M. (A)
 Bermudez, J. (A)
 Calvelo, J. P. (A)
 Cambre, A. C. (A)
 Cook, W. A. (A)
 Cosentino, A. T. (F)
 Di Marco, A. (A)
 Dymond, R. C. (A)
 Fitch, W. L. (A)
 Fossati, L. R. (A)
 Gammalsson, E. G. A. (A)

Gil Giron, D. (A)
Glattli, E. (A)
Glucksmann, A. (A)
Grant, F. W. (A)
Grant, I. C. (A)
Grousset, W. (A)
Gumpel, J. E. (A)
Gutsche, G. E. (A)
Gurrea, A. (A)
Harris, F. (A)
Hastings, R. (A)
Hayes, G. W. (A)
Hunt, G. (A)
Jurovitzky, M. (A)
Kapus, E. E. (M)
Klappenbach, W. (A)
Kline, L. (A)
Kobitsky, M. J. (A)
Krahenbuhl, H. (A)
Labin, E. (A)
Lacocca, F. (A)
Lafon, J. B. (A)
Malvarez, L. M. (A)
Medina, A. M. (A)
Molero, F. (A)
Montellano, R. (A)
Nados, F. (A)
Noizeux, P. (A)
Novies, R. (A)
Osorio, L. E. (A)
Penin, R. A. (A)
Rodriguez Hurmester, E. R. (A)

ARGENTINA

Buenos Aires (cont.)
Rueda, J. V. (A)
Scott, R. H. (M)
Simpson, L. C. (M)
Stevens, A. M. (F)
Svanascini, A. L. (A)
Sykes, J. D. (A)
Tenac, J. C. (A)
Trench, C. E. (A)
Van Spankeren, G. H. (A)
Zeile, M. C. (A)
Zimmermann, E. R. (A)

AUSTRALIA

NEW SOUTH WALES
Beard, M. (A)
Benson, J. E. (A)
Bushby, T. R. W. (M)
Dudman, V. H. H. (M)
Green, A. L. (F)
Hall, L. S. (M)
Hannam, H. W. (A)
Hicks, G. J. (A)
Hynea, F. M. B. (A)
Jones, C. R. (A)
Martin, A. F. (A)
Menon, G. J. (A)
Smith, A. C. (A)
Wood, H. B. (A)
Wyles, D. G. (M)

Sydney

Bardin, W. F. (M)
Bean, L. P. R. (M)
Bearup, T. W. (M)
Brooker, V. M. (M)
Builder, G. (F)
Cansick, N. V. C. (A)
Court, T. P. (A)
Cross, C. E. (A)
Dobbie, L. G. (M)
Fisk, E. T. (F)
Hooke, L. A. (M)
McDonald, A. S. (F)
Mingay, O. F. (M)
Osborne, W. E. (A)
Parish, H. C. (A)
Pybus, A. L. (A)
Quilty, H. E. (A)
Rubenstein, S. J. (A)
Smith, F. L. (M)
Stevenson, M. H. (A)
Thom, F. W. P. (M)
Warner, J. (A)

QUEENSLAND

Burmester, O. C. (A)
Curedale, R. G. (A)
Ham, G. (A)

SOUTH AUSTRALIA

Freeman, J. E. (A)
Hall, R. D. (A)

TASMANIA

Jebb, T. K. (A)
Tuck, H. P. (A)

VICTORIA

Collins, R. J. (A)
Clyne, E. M. (A)
Glover, G. A. J. (A)
Hooper, E. M. (A)
McCulloch, G. R. (A)
Murphy, W. T. (A)
Webb, A. L. C. (A)

WESTERN AUSTRALIA

Hayman, W. G. (A)
Urquhart, M. S. (A)

AZORES ISLANDS

Neves, J. A. G. (A)

BAHAMA ISLANDS

Hodgson, A. D. (A)

BELGIAN CONGO

Damas, G. (A)

BOLIVIA

Hinojosa, J. A. (A)
Schlicher, K. G. (A)
Smith, H. E. J. (M)

BRAZIL

Barbosa, H. (A)
de Mello, G. H. (A)
Hill, J. H. (A)
Pradal, H. A. (A)
Rio de Janeiro
Barzee, G. W. (A)
Borges, V. A. (A)
Damm, G. (A)
de Arruda, P. R. (A)
de Medeiros, L. A. (A)
de Oliveira, A. M. (M)
de Sampaio, O. (A)
Jones, L. Y., Jr. (A)
Lacombe, C. G. (A)
Lima, A. C. da S. (A)
Meyer, L. V. (A)
Moreira, A. L. (A)
Pareto, J. V. (A)
Pinto, O. D. (A)
Schulman, L. (A)
Velasco, A. N. (A)

BRITISH WEST INDIES

Jamaica
Guilfoyle, T. J. (M)
Metcalfe, E. (A)
Sowley, H. A. (A)
Trinidad
Fung, J. H. (A)

CANADA

ALBERTA

Mitchell, A. M. (A)
Porteous, J. W. (A)
Rice, G. R. A. (A)
Couch, W. J. (A)

BRITISH COLUMBIA

Brown, J. H. B. (A)
Cameron, F. W. (A)
Carroll, D. V. (A)
Chisholm, E. (A)
Gilbert, G. (A)
McCallum, B. C. (A)
McLean, L. D. (A)
Mellor, S. J. (A)
Purkis, W. F. (A)
Sealey, F. W. (A)
Thomas, C. W. (A)

Vancouver

Chisholm, E. M. (A)
Hawkins, L. S. (M)
Jackson, A. (A)
MacKenzie, D. G. (A)
Mayne, F. J. (M)
Scabrook, H. D. (A)
Tupper, B. R. (A)
Wighton, J. J. (A)

MANITOBA

Rayner, H. C. (A)

Winnipeg

Brereton, C. H. (A)
Godwin, H. B. (A)
Hooper, A. W. (A)
Smith, O. (A)
Stevens, S. (A)
Wallace, R. B. (A)

NEW BRUNSWICK

Laporte, J. M. (A)
Logan, G. R. (A)
O'Brien, P. G. (A)
Smith, H. M. (A)

NOVA SCOTIA

Greig, A. W. (A)
McCallum, R. (A)
Sutherland, A. (A)

ONTARIO

Allen, R. L. (A)
Anderson, J. F. (A)
Baldwin, C. O. (A)
Chipman, R. A. (A)
Collins, E. F. (A)
Doan, G. F. (A)
Doyle, J. (A)
Fawcett, G. M. (A)
Boisvert, P. (A)
Hobbs, F. B. (A)
Holm, H. R. (A)
Hultberg, C. A. (M)
Jackson, H. W. (A)
Kelly, J. (A)

Knight, L. F. (A)
Marks, W. (A)
McCurdy, G. E. (A)
Meyer, L. W. (M)
Paulson, C. N. (A)
Pollock, C. A. (A)
Pollock, H. S. (A)
Robinson, C. A. (A)
Ross, W. T. (A)
Rowland, L. J. (A)
Shane, W. A. (A)
Smith, C. C. (A)
Smith, B. F. (A)
Stewart, H. H. (A)
Thomson, J. M. (M)
Underwood, C. C. (A)
Wootton, G. A. (A)
Wylie, T. C. (A)

Hamilton

Crofts, C. T. (A)
Farley, T. S. (M)
Hunter, H. (A)
Kelterborn, W. H. (A)
Mackay, F. S. (A)
Olson, E. (A)
Pickett, J. H. (A)
Ruse, E. (A)
White, R. H. (A)

Ottawa

Bayley, A. K. (A)
Bridgland, C. J. (A)
Cushing, T. D. (A)
Edwards, C. P. (F)
Field, G. S. (A)
Galbraith, R. A. H. (A)
Henderson, J. P. (M)
Hepburn, D. (M)
Hings, D. L. (A)
Mackay, J. R. (A)
McIntosh, J. A. (A)
McKinley, D. W. R. (A)
McLeish, C. W. (A)
Merriman, H. O. (A)
Mounce, G. R. (A)
Nixon, F. T. (A)
Robinson, E. F. V. (A)
Rose, F. W. (A)
Ruedy, R. (A)
Rugg, H. H. (A)
Rush, W. A. (F)
Smith, A. H. R. (A)
Stewart, E. C. (A)
Taber, H. E. (A)
Wilson, W. R. (A)
Woodcock, A. H. (A)

Toronto

Ainsworth, A. L. (M)
Anthes, R. G. (A)
Armstrong, G. (A)
Armstrong, A. T. R. (A)
Armstrong, H. D. (A)
Choat, W. F. (A)
Clark, B. (A)
Clements, M. (A)
Dawson, H. S. (A)
Ford, J. S. (A)
Foster, D. E. (M)
Geiger, D. G. (A)
Goldin, H. C. (A)
Hachbush, R. A. (F)
Hamilton, H. E. S. (A)
Harris, D. L. (A)
Hurlbut, R. M. (A)
Irwin, G. J. (M)
Kennedy, J. R. (A)
Kohl, W. H. (M)
Leslie, I. M. (A)
Longstaffe, J. R. (A)
Parker, H. W. (M)
Patterson, M. C. (A)
Pfeiffer, J. T. (A)
Potter, N. M. (A)
Poulter, R. C. (M)
Pounsett, F. H. R. (A)
Price, L. M. (A)
Robertson, J. J. C. (A)
Simmonds, L. C. (A)
Speight, J. W. (A)
Swan, E. O. (A)
Tippie, H. L. (A)
Tonkin, H. (A)
Warren, J. R. (A)
Whalley, W. B. (A)
Williams, J. (A)

QUEBEC

Arbon, R. D. (A)
Aston, J. P. (A)
Bird, C. H. R. (A)
Boisvert, P. (A)
Bonnevillie, S. (A)
Clarke, J. L. (A)
Clerk, R. D. (A)
Clewes, T. W. (A)
Cooper, S. J. (A)

Farmer, E. W. (A)
Frenette, C. (A)
Grimley, E. C. (A)
Hodgson, E. (A)
Kelsey, E. S. (A)
Marceau, J. P. (A)
McMurray, J. L. (A)
McWilliam, E. A. (A)
Murray, C. W. (A)
Oxley, C. B. (M)
Roe, C. L. (A)
Ross, W. B. (A)
Smith, D. S. (A)
Wade, D. (A)
Werry, M. J. (A)
Wilson, C. T. R. (A)

Montreal

Andresen, S. (A)
Archambault, G. (A)
Bailly, F. A. A. (A)
Bain, J. R. (A)
Barrow, F. A. (A)
Bellamy, R. S. (A)
Bennett, G. S. (A)
Brian, J. M. (A)
Bull, V. G. (M)
Cahoon, R. D. (A)
Campbell, D. K. (A)
Campbell, J. A. (A)
Clarkson, L. (A)
Conroy, J. M. (A)
Dean, W. W. H. (A)
Dynes, C. W. (A)
East, L. A. W. (A)
Ellis, A. B. (A)
Fee, J. H. (A)
Field, P. A. (A)
Fisher, C. B. (A)
Fowlie, W. D. (A)
Green, J. E. (A)
Hammond, J. W. (A)
Hammond, R. E. (A)
Hayes, J. E. (A)
Hicks, B. C. (A)
Holzman, L. (A)
Howes, F. S. (A)
Jackson, J. E. (A)
Klein, H. (A)
Knights, S. F. (A)
Knox, J. B. (A)
Kruming, A. O. (A)
Laport, E. A. (M)
Marriott, B. (A)
McNeil, B. T. (A)
Merson, L. N. (A)
Nichols, W. A. (A)
Olive, G. W. (A)
Quimet, J. A. (A)
Papove, W. W. (A)
Patience, A. M. (M)
Payne, L. S. (M)
Prinsky, H. B. (A)
Punchard, J. C. R. (A)
Punchard, W. G. (A)
Schwartz, H. H. (A)
Sillit, S. (A)
Smith, F. A. (A)
Soucy, C. I. (A)
Truesdell, E. N. (A)
Warriner, B. IV (A)
Welsh, R. R. (A)
Woodhead, R. C. (A)

Mount Royal

Alford, W. D. (A)
Bain, L. S. (A)
Bird, L. T. (A)
Mathias, E. L. A. (A)
Russell, H. J. (A)
Alford, W. D. (A)
Bain, L. S. (A)
Bird, L. T. (A)
Mathias, E. L. A. (A)
Russell, H. J. (A)

SASKATCHEWAN

Haggerty, A. S. (A)
Hoskins, L. C. (A)
Jensen, C. (A)
Marshall, J. L. (A)
Michalenko, A. (A)
Tash, B. (A)

CANAL ZONE

Burns, L. V. (A)
Cronvich, J. A. (A)
Demarr, J. D. (A)
Mackey, C. D. (A)
Shirk, K. C. (A)
Snyder, G. H. (A)
Young, J. W. (A)

CEYLON

de Silva, H. B. F. (A)
Jayasekera, D. P. (A)

CHILE

del Rio, J. (A)
Estes, R. A. (A)
Iazo, F. A. M. (A)
Melendez, A. F. A. (A)
Pinto, G. (A)
Rivera, S. F. (A)
Spencer, G. E. (A)

CHINA

(See also Hong Kong)
Chang, C. H. (A)
Chang, H. (A)
Chang, T. C. (M)
Kawahara, T. (A)
Lee, S. M. (A)
Loo, T. C. (A)
Jeang, B. T. (A)
Wang, S. W. (A)

COLOMBIA

Amore, I. (A)
Silva, W. (A)

COSTA RICA

Carazo, L. A. (A)

CUBA

Armand, E. J. A. (A)
Chisholm, E. E. (A)
Guiral, R. L. A. (A)
Jimenez, M. A. (A)
Karman, R. J. (A)
Sastre, A. C. (A)

CZECHOSLOVAKIA

Ficek, F. (A)

DENMARK

Erstad, J. (A)
Kjeldsen, T. F. (A)
Linnert, H. (A)
Morch, V. H. K. (A)
Nielsen, B. A. (A)
Pedersen, G. V. C. (A)
Pedersen, M. P. (A)
Rybner, J. (A)

EAST AFRICA

Madgwick, G. (M)

EAST INDIA ISLANDS

Broersma, C. B. (A)
Einthoven, W. F. (F)

ECUADOR

Pedersen, A. A. (A)

EGYPT

de Barro, F. (A)
Mahmoud, H. M. (A)
Mathias, E. L. A. (A)
Russell, H. J. (A)

EIRE

Ferguson, J. D. (M)

ENGLAND

BERKSHIRE

Mead, P. H. (A)

BUCKINGHAM

Brooke, H. A. (A)
Diver, F. G. (A)
Dobell, H. (M)
Hinton, W. R. (A)
Hornby, F. R. (A)
Lee, G. (F)
MacKenzie, D. G. (A)
Rhys-Jones, J. E. (A)
Robertson, N. C. (M)
Scott-Taggart, J. (F)
Tyrrell, A. J. (A)

BEDFORD

Brownless, S. F. (A)
Bruce, J. R. (A)
Cooper, R. G. (A)
Dawe, F. W. (A)
Exwood, M. (A)

CAMBRIDGE

Cartier, C. J. (M)
Edwards, R. A. (M)
Liebmann, G. (A)
Minter, R. W. (M)
Ratcliffe, J. A. (A)
Rayment, K. I. (A)

CHESHIRE

Lanc, C. V. (A)
Parry, R. C. (A)
Stamford, N. C. (M)
Vernon, B. H. (A)
Witty, R. (A)

DERBY

Buckland, V. (A)

DEVON

Nelson, R. H. E. (A)
Pound, J. P. (A)

DORSET

Calver, F. N. (M)
Carter, R. H. A. (A)
Fry, D. W. (A)
Reid, D. G. (A)
Smith, C. H. (A)
Wilson, T. M. (A)

ESSEX

Aikman, J. (A)
Amey, S. H. (A)
Beck, A. H. W. (A)
Bulgin, A. F. (M)
Cafferata, H. (A)
Conroy, J. M. (A)
Crick, W. R. (A)
Davis, N. G. (A)
Deeley, A. R. (A)
Ditcham, W. T. (M)
Edmunds, J. S. (A)
Elford, E. N. (A)
Herczeg, A. (A)
Joseph, K. A. (A)
O'Donovan, D. E. (A)
O'Neill, R. F. (A)
Nielsen, B. A. (A)
Pedersen, G. V. C. (A)
Pedersen, M. P. (A)
Rybner, J. (A)

GLOUCESTER

Hawkeswood, A. E. (A)
Scott, P. R. (A)
Wey, R. J. (A)

HAMPSHIRE

Chapman, J. P. J. (A)
Coates, J. F. (A)
Coursey, P. R. (A)
Fayers, A. A. (A)
Gatkin, T. E. (A)
Gray, R. E. (A)
Harvey, J. P. (A)
Hay, V. J. (A)
Mallinson, W. D. (A)
Nicholls, G. K. (A)
Parsons, L. W. (A)
Slow, E. C. (A)
Taylor, A. O. (A)
Turner, L. B. (A)
Whitman, A. B. (A)
Whitehead, E. D. (A)
Williams, C. (A)
Woods, C. H. (A)

MIDDLESEX

Baxter, H. W. (A)
Cooper, W. H. B. (A)
Cox, F. (A)
Denman, R. P. G. (A)
Emery, E. J. (M)
Gavin, M. R. (A)
Heaton-Armstrong, L. J. (M)
Jachess, D. G. (A)
Lewis, H. A. (A)
Lunt, C. (A)
McPherson, W. L. (M)
Mole, J. H. (A)
Montgomery, A. W. (M)
Oldham, C. A. (A)
Rapson, E. T. A. (A)
Roberts, F. F. (A)
Simmonds, J. C. (A)
Williams, R. C. G. (M)

KENT

Barber, H. J. (A)
Benham, W. E. (A)
Crossfield, G. B. (A)
Hale, J. A. B. (A)

Lawrence, E. (A)
Mabe, W. S. (A)
Powers, S. J. (A)
Scroggie, M. G. (A)
Shorland, H. (A)
Stead, C. (A)
Wicks, F. W. (A)

LANCASHIRE

Atkin, F. W. T. (A)
Davies, E. W. (A)
Fielding, E. A. (A)
Hartley, K. A. (A)
Horrocks, R. D. (J)
Leyland, A. J. (A)
Oxley, G. C. (A)
Oxley, R. F. (A)
Simpson, A. V. (M)
Tomlin, G. M. (A)

LEICESTER

Barnard, R. M. (A)
Howse, H. A. G. (M)

LONDON

Adorjan, P. (M)
Appleton, E. V. (F)
Ashbridge, N. (F)
Ashman, G. L. (A)
Bedford, L. H. (M)
Bishop, H. (F)
Bowden, H. F. (A)
Chatterjee, P. K. (M)
Cobb, F. A. (M)
Cohen, I. J. (A)
Crampton, W. J. (M)
Davies, B. T. (A)
De Burgh, D. H. (M)
Dyson, A. A. (A)
Earp, C. W. (M)
Edes, N. H. (A)
Edge, J. (A)
Geyer, J. H. (A)
Gill, A. J. (F)
Glazer, A. E. (A)
Greig, J. (A)
Hall, L. L. (A)
Hamilton, D. (A)
Harris, J. H. O. (A)
Hayes, L. W. (F)
Johnson, D. F. (A)
Jones, E. (A)
Kirke, H. L. (M)
Knight, S. G. (A)
Landman, A. (A)
Lyons, C. L. (M)
MacFarlane, G. G. (A)
Masters, E. F. O. (A)
Masters, T. G. (A)
Pickens, W. J. (A)
Pocock, H. S. (M)
Pollard, B. S. (A)
Potts, E. (A)
Ringham, G. B. (M)
Roberts, R. S. (A)
Schroter, E. (A)
Schwarz, H. F. (A)
Smith, C. (A)
Smith, I. F. (A)
Spagnoletti, P. H. (A)
Starr, C. H. (M)
Stott, H. T. (A)
Strong, C. E. (M)
Tingley, G. R. (A)
Troutbeck, W. H. (A)
Tucker, D. G. (A)
Twiss, A. R. (M)
Ulrich, E. H. (F)
Varley, W. E. C. (A)
Walmsley, T. (M)
Webster, H. C. (A)
Wells, F. H. (A)
Weston, J. D. (A)
Willoughby, E. O. (A)

SURREY

Borgars, S. J. (A)
Carpenter, R. E. H. (M)
Chorley, J. M. (A)
Clark, R. G. (A)
Dupree, F. H. (M)
Gabriel, R. P. (A)
Griffiths, W. H. F. (M)
Hansford, R. W. (A)
Hickson, P. W. (A)
Jones, L. C. (A)
Mawby, L. J. (A)
Moon, J. L. (A)
Myers, L. M. (A)
Payne, C. E. (A)
Rickard, C. E. (M)
Ross, K. (A)
Thompson, A. E. (M)
Vedy, L. G. (A)

SUSSEX

Anderson, J. L. D. (A)
Bennington, T. W. (A)
Blackburne, A. F. N. (A)
Johnston, D. L. (A)
Simmonds, E. J. (M)
Tozer, B. L. (A)

WARWICK

Binn, A. W. (A)
Kinman, T. H. (M)
Lowlock, R. T. (A)
Rowley, P. (A)
Sharp, S. (A)
Yerbury, G. A. (A)

WORCESTER

Field, J. C. (A)
Herdman, T. L. (A)
Mansell, I. H. (M)
McLean, F. C. (A)

YORKSHIRE

Gardner, D. H. (A)
Gautby, H. R. B. (A)
Head, J. E.

JAPAN

Sugiyama, E. (A)
Suzuki, T. (A)
Suzuki, T. T. (A)
Takayanagi, K. (A)
Takebayashi, K. (A)
Uchida, S. (A)
Ukai, S. (A)
Uyeda, H. (A)
Yo, Eifu (A)

KENYA COLONY

Gross, J. (A)
Pegrum, S. A. (A)

MEXICO

Fernandez, M. A. (A)
Hard, J. M. B. (A)

NETHERLANDS

Bontekoe, H. (A)
van der Pol, B. (F)

NEWFOUNDLAND

Blackie, C. B. (A)
Brant, C. M. (A)
Brown, W. A. (A)
Ratcliffe, F. L. (A)

NEW ZEALAND

Blackwell, W. J. (A)
Clarkson, T. R. (A)
Egan, R. A. (A)
Glassey, R. B. (A)
Hansen, I. C. (A)
Henderson, B. G. (A)
Jack, R. (A)
Kirtton, F. N. (A)
Lee, W. C. (A)
McLennan, R. A. (M)

McRae, I. H. (A)
Moore, J. (A)
Mosheim, K. R. (A)
Orbell, R. J. (A)
Paulson, E. J. (A)
Russell, C. R. (M)
Ryland, A. (A)
Smith, J. R. (A)
Sturton, C. H. (A)
Wright, L. L. (A)

NORTHERN IRELAND

Beatty, W. A. (M)
Stokes, E. G. C. (M)

PALESTINE

Margalith, A. (A)

PANAMA

Mendez, L. (A)

PERSIAN GULF

Homewood, C. (A)
Skerrey, C. E. (A)

PHILIPPINE ISLANDS

Alvandia, A. F. (A)
Peterson, I. (A)
Schoenwolf, F. L. (M)

PERU

Anderson, L. N. (A)
La Pierre, V. M. (A)
Rockwell, P. (A)
Tringham, W. S. L. (A)

PORTUGAL

O'Neill, H. N. (A)

PUERTO RICO

Del Valle, A. P. (A)
Houston, P. M. (A)
Kenrick, G. W. (F)
Krisberg, N. L. (A)
Lingard, A. (A)
Perry, R. P. (A)
Plummer, W. B. (A)
Schell, R. Jr. (A)
Sullivan, J. R. (A)

SAMOAN ISLANDS

Robinson, E. B. (A)

SCOTLAND

Knowles, J. G. (A)
Mirk, D. B. (M)
Nicol, W. L. (A)
Oliphant, W. D. (M)
Redmond, J. (A)
Smail, J. E. (A)

SOUTH AFRICA

Boyce, C. F. (A)
Dunbar, J. (A)
Knight, A. W. (M)
Nutt, A. (A)
McBride, W. V. (A)
Olen, C. L. (A)
Patrick, P. E. (A)
Smuts, M. N. (A)
Selby, P. (A)
Talbot-Jones, R. V. (A)

Cape Town

Brickhill, G. A. (A)
Dejong, A. C. (A)

Gilmour, R. R. (A)
Hill, G. (F)
Waddington, J. K. (A)

Johannesburg

Goetz, M. (A)
Kueera, F. L. (A)
Main, F. S. (A)
Ross, C. G. Jr. (A)
Suttner, R. (A)
Troost, N. (A)
Van der Bijl, H. J. (F)
Walker, G. D. (A)

SPAIN

Jones, A. F. (A)

STRAITS SETTLEMENTS

Barracough, J. F. (A)
O'Reilly, C. (A)
Martin, W. M. (A)
Sutherland, J. G. A. (M)
Whitaker, G. C. F. (A)

SWEDEN

Kruse, O. S. N. (A)
Lemoine, A. S. (A)
Lofgren, E. O. (A)
Nilsson, G. A. (A)
Lundwall, B. H. (A)
Olsson-Seller, R. I. (A)
Palme, K. B. (A)
Stannow, J. C. (A)
Sterky, H. (A)
Sundquist, A. (A)

SWITZERLAND

Anselmi, S. C. (A)
Favre, M. G. (A)
Gautschi, W. (A)

Nicole, A. (A)
Strohschneider, W. (A)
Fischer, F. E. (A)
Guggenheim, S. (A)
Stuber, R. (A)
Tank, F. (A)

THAILAND

Aram, P. (M)
Charoonbara, S. (A)

TURKEY

Onder, K. (A)

URUGUAY

Valvede, R. D. (A)

U.S.S.R.

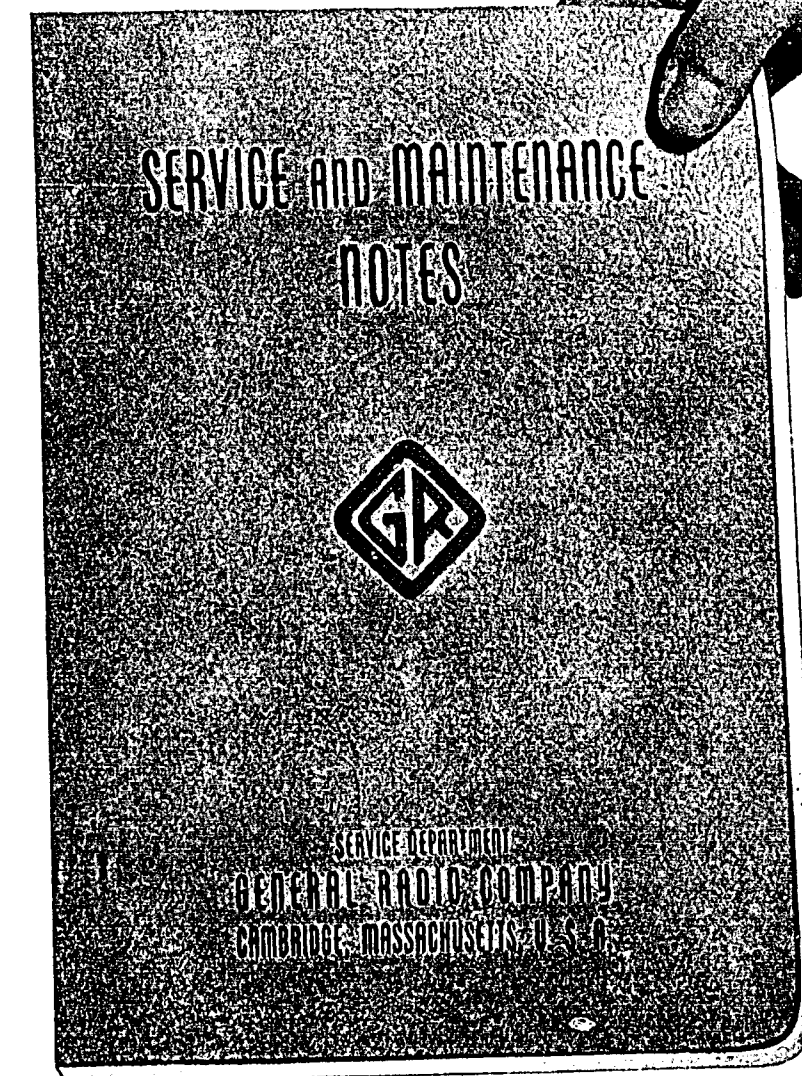
Chernyshoff, A. A. (A)

VENEZUELA

de Mello, W. (A)
Gil-Borges, J. (A)
Guitian, J. E. (A)
Jimenez-Michelena, L. G. (A)
Long, F. V. (A)
Lopez, A. L. (M)
Pachano, P. I. (A)
Siblesz, G. M. (A)

WALES

Welch, A. A. (A)
White, R. W. (A)



KEEPING YOUR EQUIPMENT OPERATING

NOW more than ever before the proper maintenance of measuring equipment to insure maximum life is essential. It is comparatively simple to keep most General Radio apparatus operating with its original accuracy if certain operating precautions are observed and if a maintenance routine is established and followed.

The high accuracy of many G-R instruments is often dependent, in part, upon smooth operation of controls, freedom from backlash, clean contacts and absence of oxidization, dirt and foreign matter. A definite servicing schedule will help to minimize deterioration and failure and will save the user much valuable time (and money) in avoiding the necessity of returning instruments to us for service or repair.

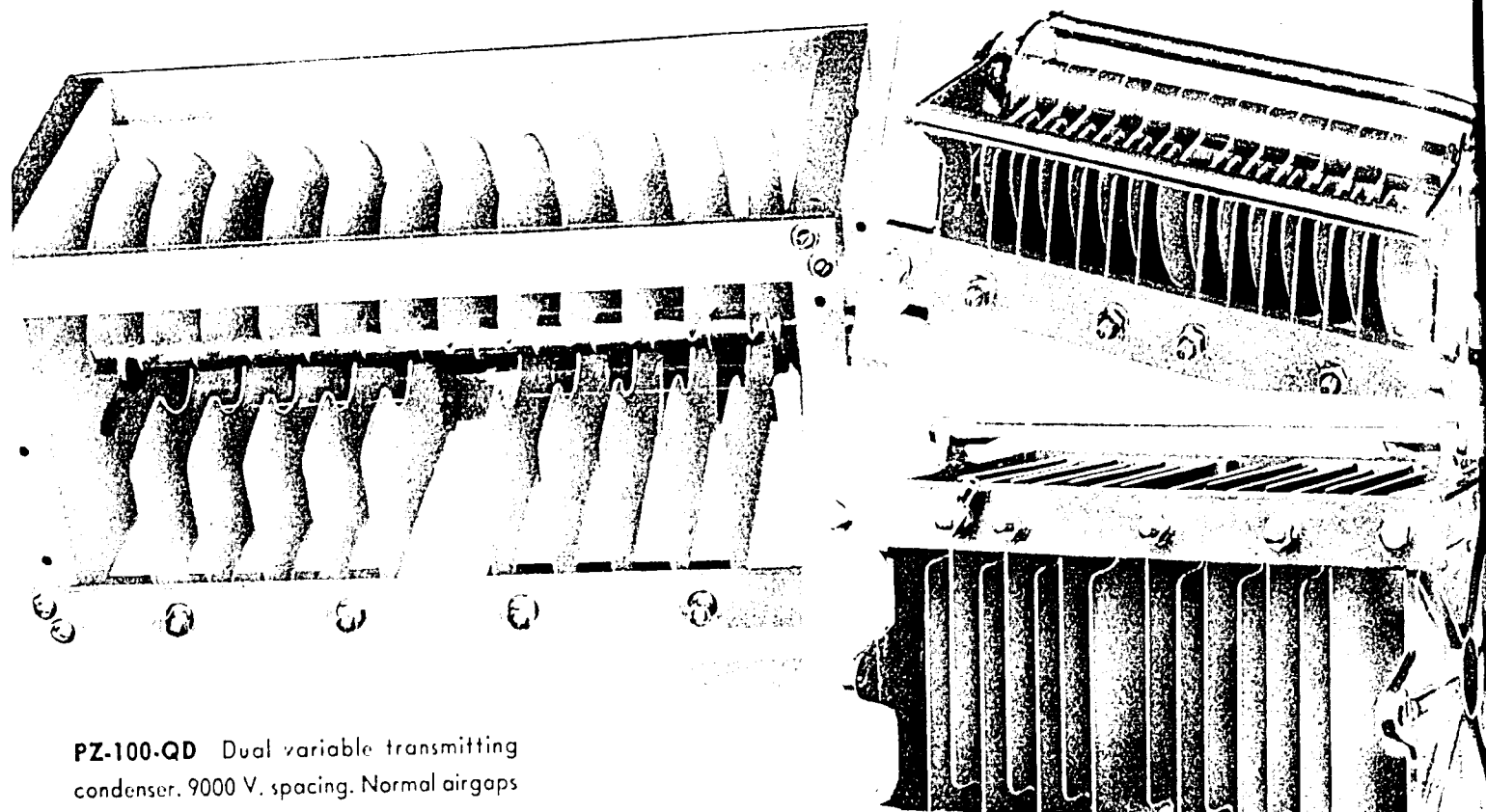
Our Service Department has prepared a comprehensive manual which outlines the routine for maintaining a number of instruments, gives detailed instructions for trouble shooting and suggests a number of precautions to be observed when using G-R apparatus.

Both in the interest of our customers and as some assistance to the national war effort, we would like for users of our apparatus to have that portion of the service manual which is applicable to their instruments.

If you will send us a request for a "Service and Maintenance Notes" order form, the manual will be sent to you without charge.

GENERAL RADIO COMPANY
CAMBRIDGE, MASSACHUSETTS
Branches in New York and Los Angeles

Standard of Comparison

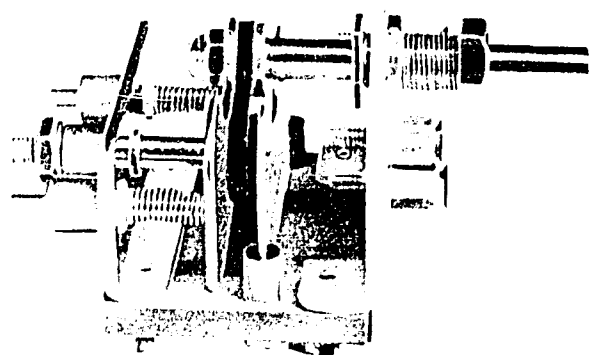


PZ-100-QD Dual variable transmitting condenser. 9000 V. spacing. Normal airgaps to 1/2 inch.

TC-100-UD Dual variable transmitting condenser. Normal maximum airgap .294 inches. 1/2 inch airgap available in 80 mmf. single or 40 mmf. dual.

HZ-100-ZD Dual fixed transmitting condenser. 1/2 inch airgap 100 mmf. per section.

A-7220 Micro-capacitor bridge adjuster. Typical of the many special components that are produced to customer specifications.



CARDWELL CONDENSERS

Specified and used generously in practically every type of communications equipment from the lowest power transmitters to the highly complex controls of frequency checking devices, CARDWELLS have never failed to justify their selection.

THE ALLEN D. CARDWELL MANUFACTURING CORPORATION
83 PROSPECT STREET
BROOKLYN, N. Y.

Introduction to The Radio Products Section

This section is provided through the support of leading manufacturers of radio equipment, parts, and materials in a sincere effort to keep the Radio Products Section of THE PROCEEDINGS advertisers.

We have devoted listings to those firms which have shown a special interest in the R.R.E. and a desire to reach the radio engineer.

For reference convenience we have also included a list of firms which have produced products of many of these firms, and an alphabetical index of firms and products.

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Trade Name Index

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Product Index

AMPLIFIERS

Ballantine Labs., Inc., Boonton, N.J. (Decade, Battery Operated)

Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn, N.Y.

Terminal Radio Corp., 85 Cortlandt St., New York, N.Y. (Industrial and P.A.)

ANALYZERS

Hewlett-Packard Co., 481 Page Mill Rd., Palo Alto, Calif. (Harmonic and Distortion)

ANTENNAS

Premax Prods., 4197 Highland Ave., Niagara Falls, N.Y. (Monel, Aluminum and Steel)

ARTIFICIAL EAR

Ballantine Labs., Inc., Boonton, N.J.

ATTENUATORS

Daven Co., 158 Summit St., Newark, N.J. (Volume Controls)

International Resistance Co., 431 N. Broad St., Philadelphia, Pa.

Ohmite Mfg. Co., 4860 W. Flournoy St., Chicago, Ill. (High Wattage T and L Pad)

BAKELITE

A. W. Franklin Mfg. Corp., 175 Varick St., New York, N.Y. (Stampings and panels, also laminated)

BINDING POSTS

Hugh H. Eby, Inc., 4700 Stanton Ave., Philadelphia, Pa.

BRIDGES

General Radio Co., 30 State St., Cambridge, Mass.

CABINETS

Par Metal Prods. Corp., 32-62 49th St., Long Island City, N.Y.

Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn, N.Y. (Metal Fabricated)

CABLES

Lenz Elec. Mfg. Co., 1751 N. Western Ave., Chicago, Ill. (For radio, telephone and special construction)

CAPACITORS—Electrolytic

Arrovor Corp., New Bedford, Mass.

Cornell-Dubilier Elec. Corp., 1012 Hamilton Blvd., South Plainfield, N.J.

P. R. Mallory & Co., Inc., 3029 E. Washington St., Indianapolis, Ind.

Solar Mfg. Corp., 586 Avenue A, Bayonne, N.J.

Sprague Prods. Co., North Adams, Mass.

Terminal Radio Corp., 85 Cortlandt St., New York, N.Y.

CAPACITORS—Industrial

Arrovor Corp., New Bedford, Mass.

Cornell-Dubilier Elec. Corp., 1012 Hamilton Blvd., South Plainfield, N.J.

P. R. Mallory & Co., Inc., 3029 E. Washington St., Indianapolis, Ind.

Solar Mfg. Corp., 586 Avenue A, Bayonne, N.J.

CAPACITORS—Mica

Arrovor Corp., New Bedford, Mass.

Cornell-Dubilier Elec. Corp., 1012 Hamilton Blvd., South Plainfield, N.J.

P. R. Mallory & Co., Inc., 3029 E. Washington St., Indianapolis, Ind.

Solar Mfg. Corp., 586 Avenue A, Bayonne, N.J.

Terminal Radio Corp., 85 Cortlandt St., New York, N.Y.

CAPACITORS—Paper

Arrovor Corp., New Bedford, Mass.

Central, 300 E. Kerk Ave., Milwaukee, Wis.

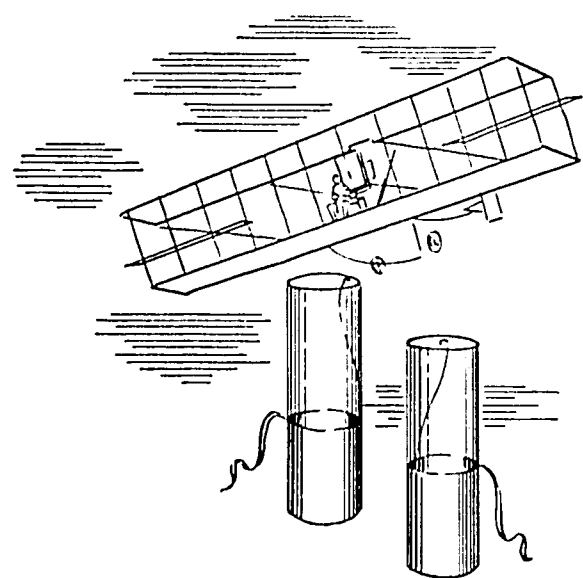
Cornell-Dubilier Elec. Corp., 1012 Hamilton Blvd., South Plainfield, N.J.

P. R. Mallory & Co., Inc., 3029 E. Washington St., Indianapolis, Ind.

Solar Mfg. Corp., 586 Avenue A, Bayonne, N.J.

Sprague Prods. Co., North Adams, Mass.

Terminal Radio Corp., 85 Cortlandt St., New York, N.Y.



Still the after 32 years!

Mica transmitting capacitors, pioneered by William Dubilier, broke the German monopoly on the cumbersome, fragile and inefficient Leyden jar. The Allied Powers, throughout the first World War, depended solely on Dubilier's output of this newly-developed product for all capacitor needs.

In the quarter of a century since those critical days — constant research, continuous improvement, concentration on the manufacture of capacitors exclusively, have maintained Cornell-Dubilier leadership at all times. This accumulated skill is clearly evident in the built-in extra dependability of longer-lasting C-D



1910
1942

MICA • DYKANOL • PAPER

WET & DRY ELECTROLYTICS

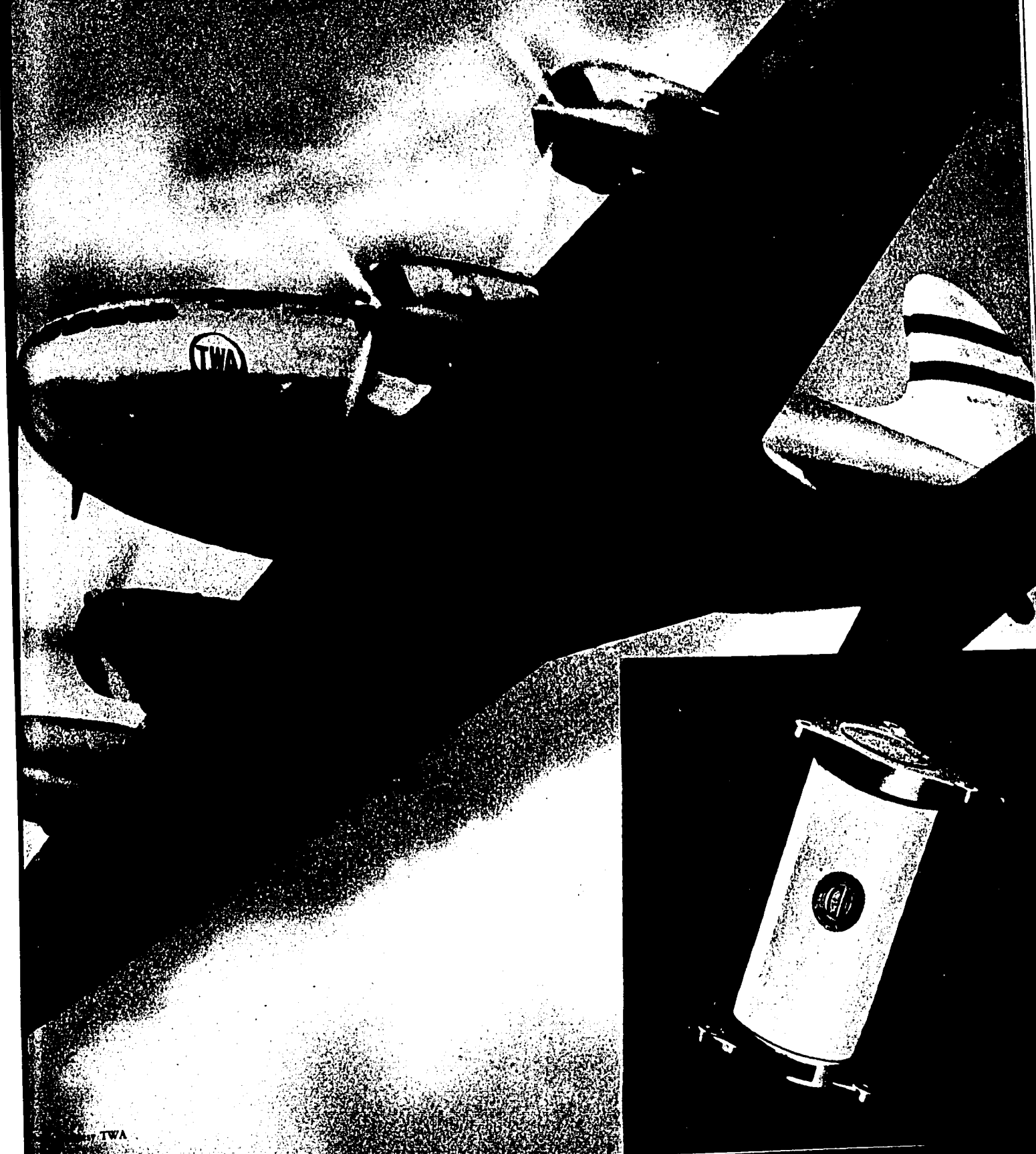
Cornell Dubilier Capacitors
World's Largest and Oldest Manufacturer of Capacitors

capacitors—now made in a wide variety to meet the special needs of our government and many industries.

Today, as in the last World War, Cornell-Dubilier is supplying the United Nations' forces with all the capacitors it can make. More than thirty-seven hundred workers in its two big plants are doing their utmost to meet overwhelming demands. If your deliveries are delayed, we beg continuance of your patience. The cause of Victory must precede all other needs! Cornell-Dubilier

Electric Corporation, South Plainfield, New Jersey. New England Division: New Bedford, Massachusetts.

Standard ★ ★ ★



New Gateway to the "Radio Age"!

CONFIDENT that the future of radio will be greater even than its past, the Radio Corporation of America has laid the cornerstone for the world's foremost center of radio research and pioneering—RCA Laboratories at Princeton, N.J.

The main section of the Laboratories will open in 1942, dedicated to the service of mankind through increased usefulness of radio and electronics to the nation, to the public and to industry.

Radio has marched hand in hand with progress in electronics. The magic which created electronics—infinitesimal particles of electricity—lifted radio out of its mechanical era...took wireless out of the spark gap and sealed it inside the vacuum tube...took television off the me-

chanical scanning disc and put it in the Iconoscope.

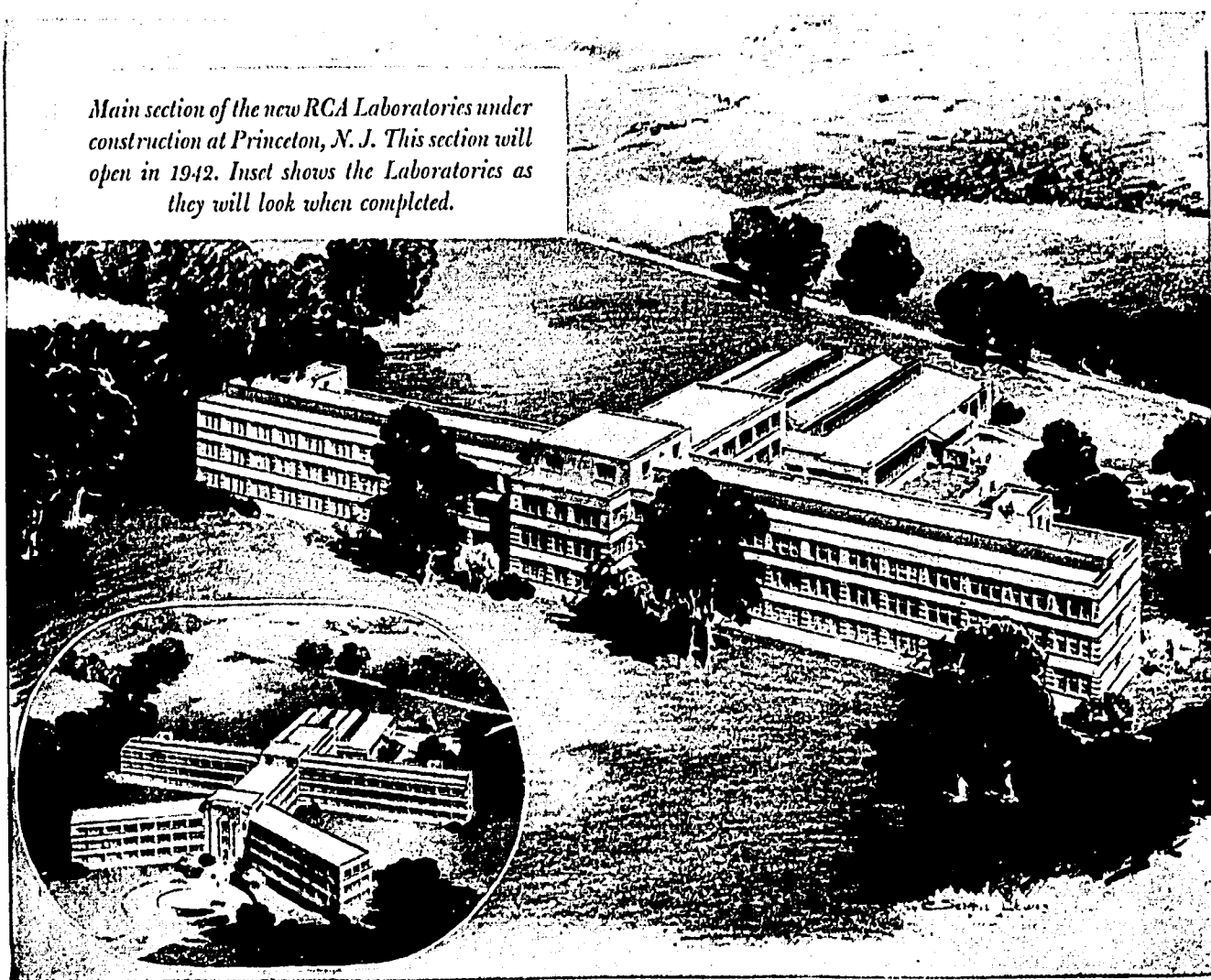
In this hour of history RCA Laboratories fittingly symbolize our faith in the future—that science will blaze new trails in the unexplored wilderness of the electronic sciences through radio research.



RCA LABORATORIES

A Service of the Radio Corporation of America, Radio City, N. Y.
Other RCA Services: RCA Manufacturing Company, Inc.
Radiomarine Corporation of America R.C.A. Communications, Inc.
National Broadcasting Company, Inc. RCA Institutes, Inc.
Blue Network Company, Inc.

Main section of the new RCA Laboratories under construction at Princeton, N. J. This section will open in 1942. Inset shows the Laboratories as they will look when completed.



Here's 1 Reason Why

Eimac tubes are unconditionally guaranteed against premature failures caused by gas released internally

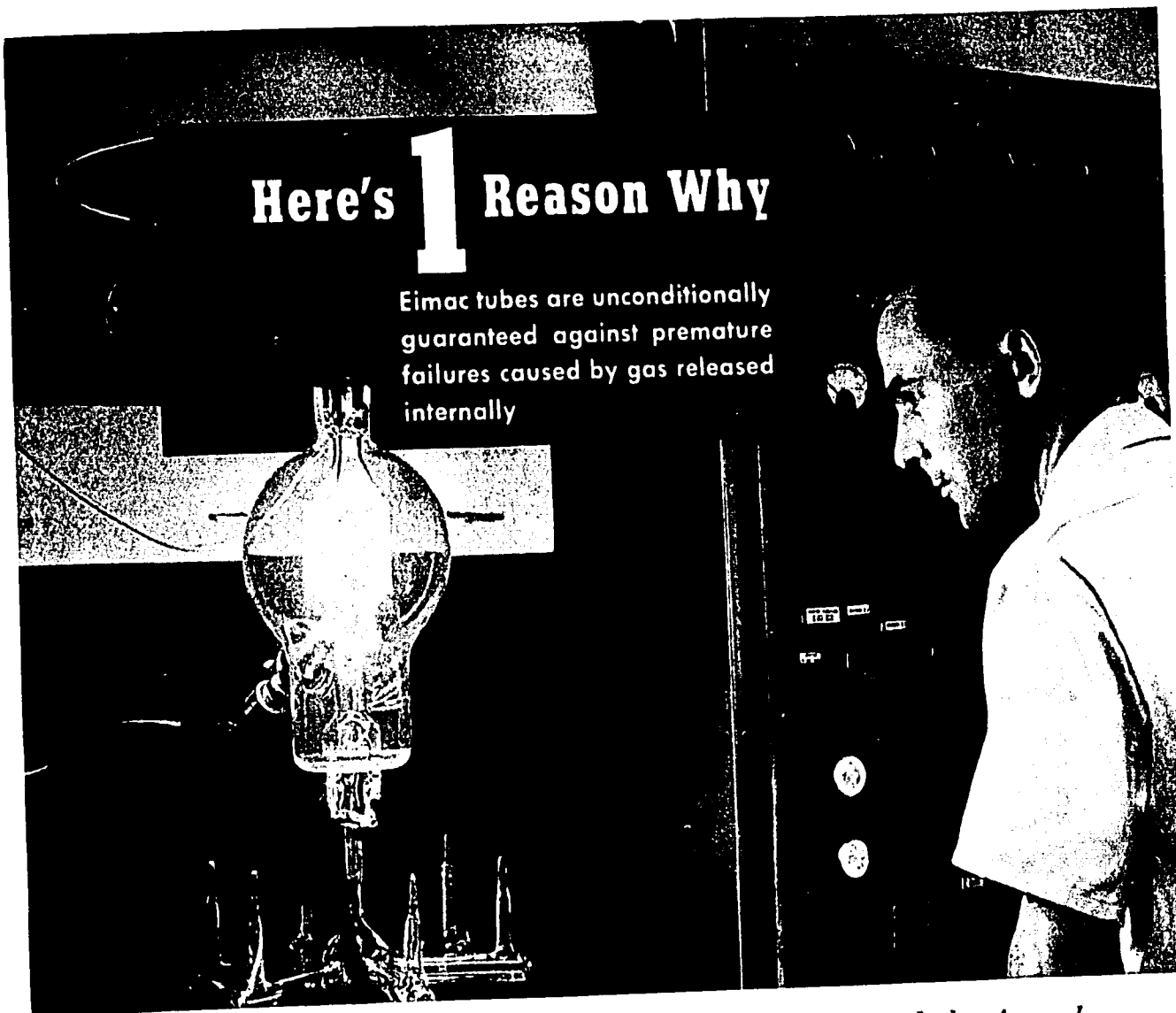


Plate dissipation is run up to ten times normal during the exclusive pumping process

Tube elements are fabricated from Tantalum which has the lowest original gas content of any known metal. This relatively small original gas content is then completely removed by the patented Eimac pumping process which you see illustrated in part above. During this process the plate dissipation is run up to ten times the normal ratings of the tube... and held there for hours... infinitely hotter than they will ever become in operation even under extreme circumstances. All Eimac tubes undergo this severe gruelling and they must pass 100% before they come to you.

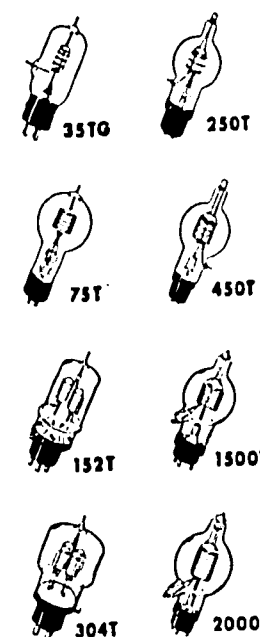
Long filament life, uniformity of characteristics, outstanding performance and complete freedom from failures caused by gas released internally are basic reasons why you should adopt Eimac tubes for your transmitter. These are the same reasons why most all the world's leading engineers choose Eimac... and why practically every major airline and many of the most vital commercial and government transmitters throughout the world have Eimac tubes in the key sockets.

Follow the leaders to

Eimac
TUBES

EITEL-McCULLOUGH, INC.

San Bruno, California

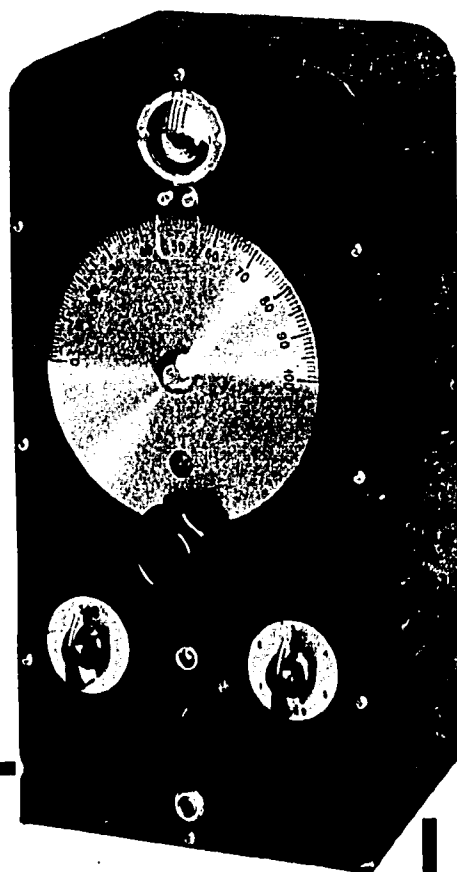


More than 20 tube types. Get information NOW. Data sheets will be sent on request.

BROWNING TYPE S-2 FREQUENCY METER

CHECK FREQUENCY

Accurately



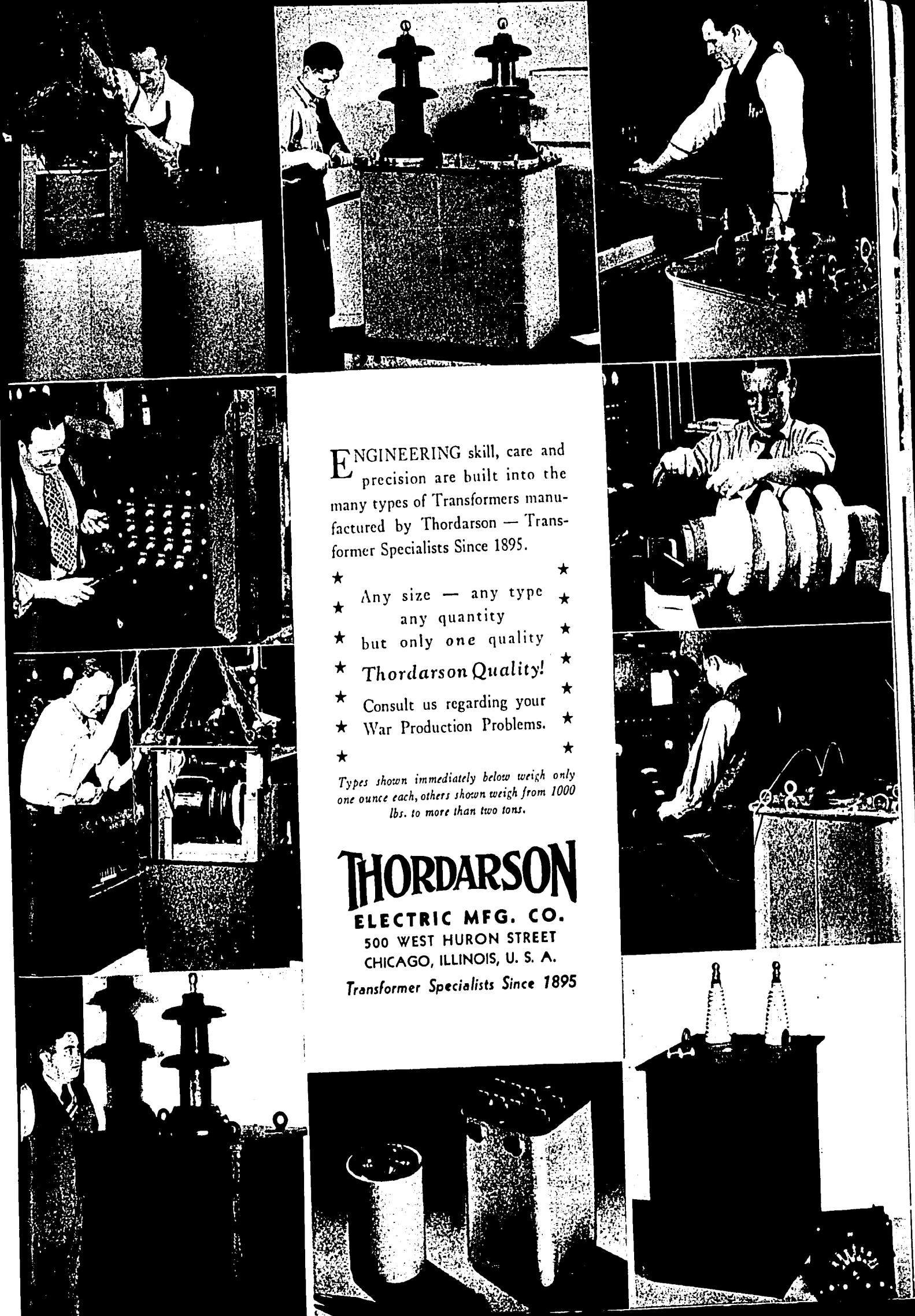
Designed Especially for Emergency, Police and Similar Services. This Instrument Is Custom Built for Individual Frequencies

1. Accuracy better than .005%.
2. Will meet the F. C. C. requirements for checking the frequencies of any transmitter which requires a frequency meter accurate to .005%.
3. For more accurate zero beat setting a cathode ray indicator is employed. A jack is provided for aural indication of zero beat.
4. The Browning Frequency Meter is so designed that the precision of the apparatus at any time can be checked to at least fifty parts in five million against the Bureau of Standards Station WWV or against any reliable station operating on frequencies which are an even multiple of 100 KC.
5. Custom-built for specified frequencies. Models from 1 to 5 bands inclusive.

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Laboratories INC.
WINCHESTER·MASS·

Designers and manufacturers of custom built Radio and Electronic Equipment for national defense and commercial use.

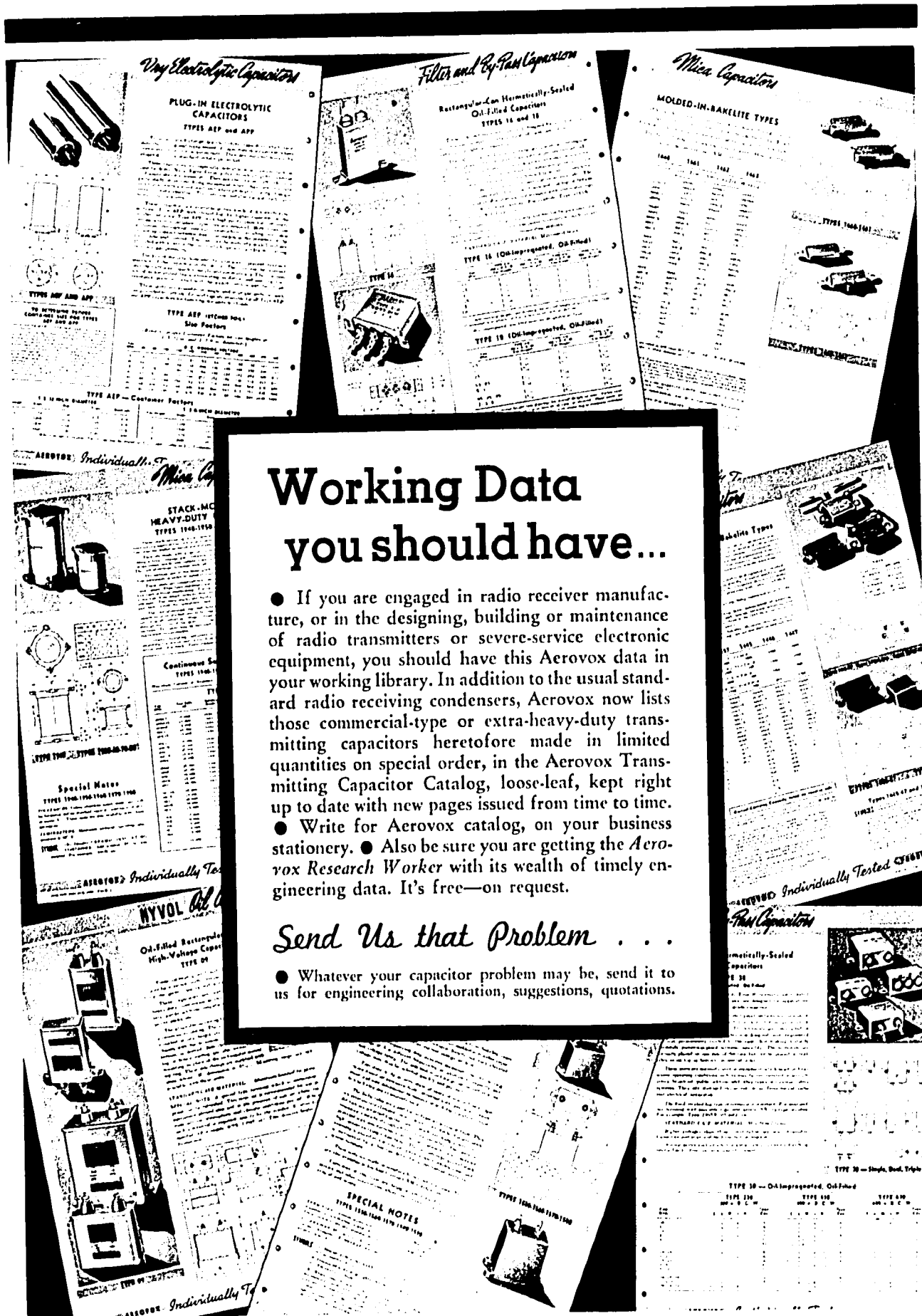


ENGINEERING skill, care and precision are built into the many types of Transformers manufactured by Thordarson — Transformer Specialists Since 1895.

- ★ Any size — any type
- ★ any quantity
- ★ but only one quality
- ★ Thordarson Quality!
- ★ Consult us regarding your
- ★ War Production Problems.
- ★

Types shown immediately below weigh only one ounce each, others shown weigh from 1000 lbs. to more than two tons.

THORDARSON
ELECTRIC MFG. CO.
500 WEST HURON STREET
CHICAGO, ILLINOIS, U. S. A.
Transformer Specialists Since 1895



Working Data you should have...

- If you are engaged in radio receiver manufacture, or in the designing, building or maintenance of radio transmitters or severe-service electronic equipment, you should have this Aerovox data in your working library. In addition to the usual standard radio receiving condensers, Aerovox now lists those commercial-type or extra-heavy-duty transmitting capacitors heretofore made in limited quantities on special order, in the Aerovox Transmitting Capacitor Catalog, loose-leaf, kept right up to date with new pages issued from time to time.
- Write for Aerovox catalog, on your business stationery. ● Also be sure you are getting the *Aerovox Research Worker* with its wealth of timely engineering data. It's free—on request.

Send Us that Problem . . .

- Whatever your capacitor problem may be, send it to us for engineering collaboration, suggestions, quotations.

NEW BEDFORD, MASS.,
U. S. A.
Sales Offices in All
Principal Cities

AEROVOX

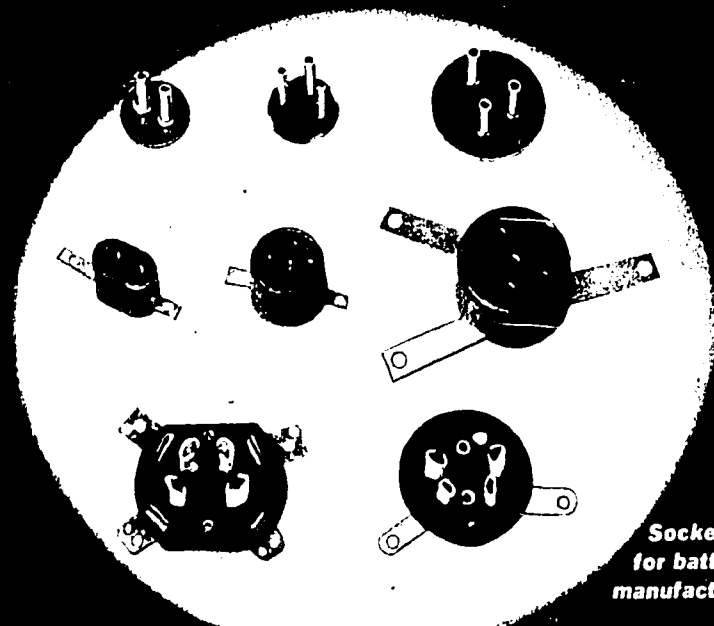
CORPORATION

In Canada
AEROVOX CANADA LTD.
Hamilton, Ont.
EXPORT: 100 Varick St., N. Y.
Cable 'ARLAB'

- *Laboratory Standards*
- Standard Signal Generators*
- Vacuum Tube Voltmeters*
- Square Wave Generators*
- U.H.F. Noisemeters*
- Pulse Generators*

Measurements Corporation
Boonton ————— *New Jersey*

FRANKLIN

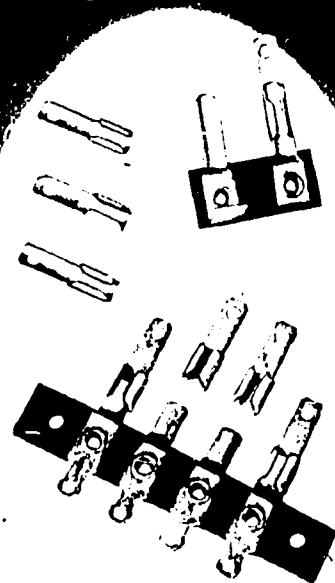


Sockets
for battery
manufacturers

As the leading supplier of laminated sockets and parts to radio and electrical equipment manufacturers, Franklin has enlarged its line to include **MOLDED SOCKETS** for aviation, battery, electrical, instrument, radio and allied apparatus. Plugs to match. Plugs for speaker and cable manufacturers.

Developed through close cooperation between our engineers with the engineering department of a leading radio receiver manufacturer.

New terminal strips — with matching, positive-spring-contact male and female connections — for loop aeri-als, speakers, etc. Reduce assembly and manufacturing costs — replace bulky and more expensive plugs.



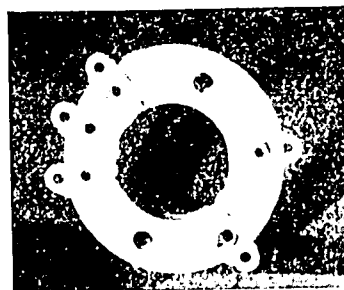
Manufacturing facilities for large quantity production on regular or special items — engineers to discuss your design problems — quotations made promptly from your blueprints.

A. W. FRANKLIN MFG. CORP.
175 VARICK STREET NEW YORK, N. Y.
Sockets • Terminal Strips • Plugs • Switches • Metal Stampings

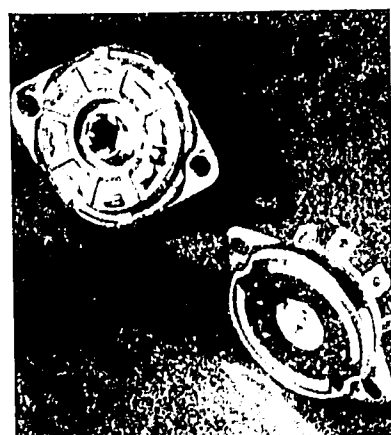
ARMY — — NAVY

Tube Socket
requirements solicited.

Now in Production



Sockets for Ultra-high frequency Acorn Tubes—Grade "G" Ceramic approved for Army, Navy and Signal Corp applications. Special Grade "C" Silver Plated Contacts. Snap-in contact withstands severe vibration.

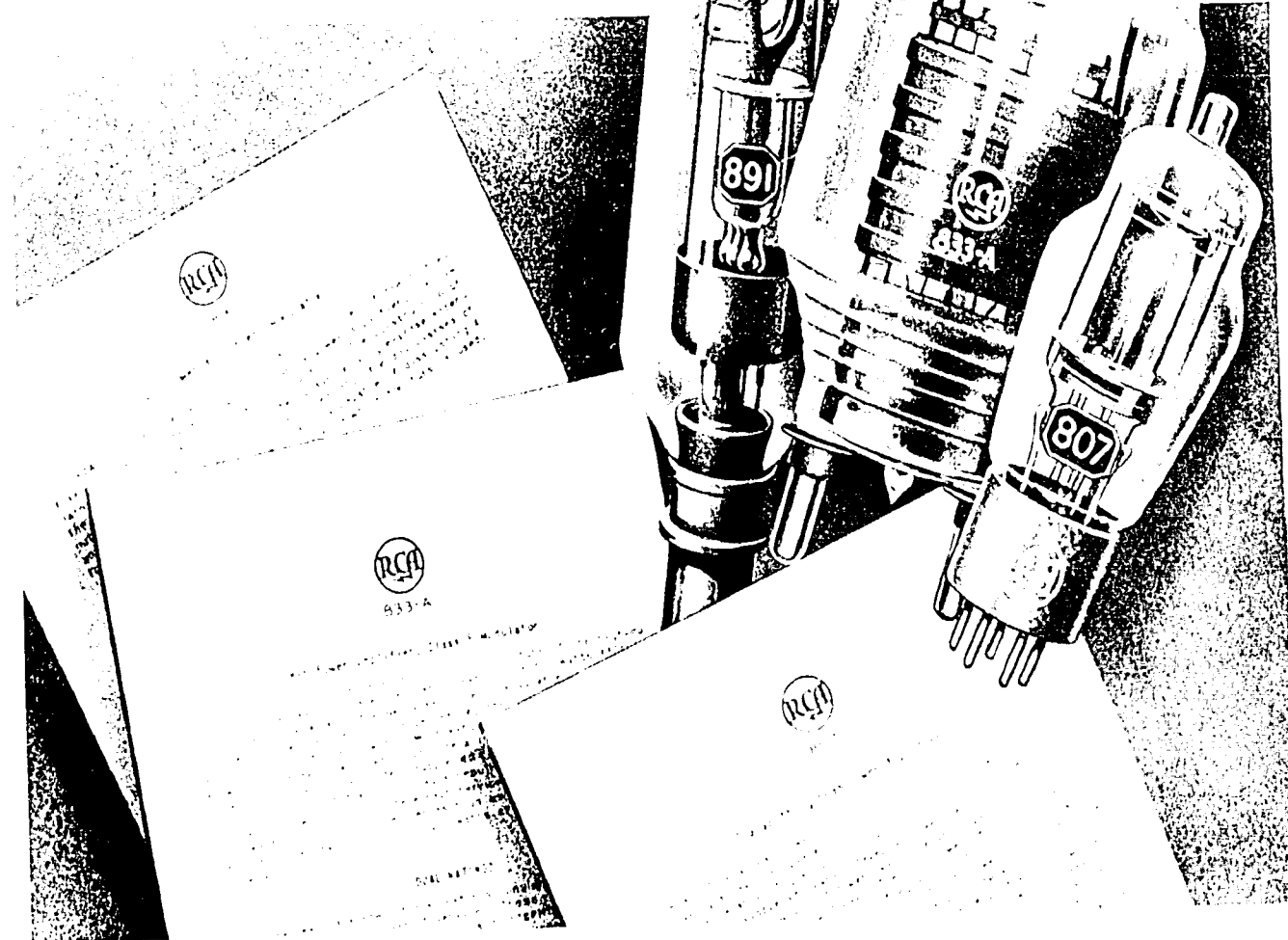


New Low Loss—"Lock-in" Sockets — Revolutionary designed contact Insures dependable service for Tanks — Airplanes—Ship—etc.

• • •

Write our Engineering Department for Samples and Send in your Specifications.

USE THESE RCA TRANSMITTING TUBE
INSTRUCTION SHEETS AS YOUR GUIDE



INSURE LONGER LIFE FOR TUBES THAT MAY BE DIFFICULT TO REPLACE!

FOR LONGER TUBE LIFE—

For types using pure tungsten filaments, a reduction in filament voltage greatly lengthens tube life.

For types using thoriated-tungsten filaments, maintaining filament at rated voltage results in longer life. Operation either under or over normal voltage may result in shorter life.

For types using oxide-coated cathodes, maintain filaments at rated voltage.

For all types, reduce dissipation in grids and plates to a minimum to avoid overloading and to obtain materially longer life.

Many new Transmitting Tubes for commercial and civilian uses may become even harder to obtain because of the tremendous War-purpose demand. It is, therefore, not only a patriotic duty, but sound business policy as well, for tube users to conserve tube life by observing special care and operating practices which may add thousands of hours of life to tubes now in operation.

It is an old story that RCA Transmitting Tubes are built to withstand plenty of abuse — so much so that abnormal operating conditions are frequently accepted as "normal." Even though tube life has been entirely satisfactory under such conditions, it is by no means as long as might be

obtained, simply by careful, conservative use of the tubes, as outlined in the Instruction Booklet packed with each one.

In short, these are days when it is essential to give tubes all the care you can give them. Maximum life now becomes far more important than optimum performance. RCA welcomes the opportunity to cooperate in helping RCA Transmitting Tube users extend tube life to its fullest.

If you do not have Instruction Booklets on the RCA Tube types in your transmitter, write Commercial Engineering Section, RCA Manufacturing Co., Inc., Harrison, N. J., for free copies. Be sure to mention type number.

RCA Transmitting Tubes

RCA MANUFACTURING CO., Inc., Camden, N. J. • A Service of The Radio Corporation of America
In Canada: RCA Victor Company Limited, Montreal

Radio Receivers

A.M.—F.M.

Radio-Phono

Combinations

A.M.—F.M.

Television

Oscillators A.F.—R.F.

Transmitters

Cable Assemblies

Miscellaneous

Electronic Devices

ESPEY

MANUFACTURING CO. INC.

305 EAST 63rd STREET
NEW YORK CITY, N.Y.

Telephone: REgent 7-3090

Product Index

CAPACITORS—Vacuum

Eitel-McCullough, Inc., 798 San Mateo Ave.,
San Bruno, Calif.

CAPACITORS—Variable

Allen D. Cardwell Mfg. Corp., 81 Prospect St.,
Brooklyn, N.Y.

Terminal Radio Corp., 85 Cortlandt St., New
York, N.Y.

CATHODE-RAY—See Tubes

CERAMIC MATERIALS

American Lava Corp., Chattanooga, Tenn.
Isolantite, Inc., 233 Broadway, New York, N.Y.

CHASSIS

Par-Metal Prods. Corp., 32-62 49th St., Long
Island City, N.Y. (Bases, blank and punched)

Sherron Metallic Corp., 1201 Flushing Ave.,
Brooklyn, N.Y. (Metal Fabricated)

CHOKES—Audio

New York Transformer Co., 51 W. 3rd St., New
York, N.Y. (Reactors)

United Transformer Co., 150 Varick St., New
York, N.Y. (Reactors)

CHOKES—Power

Kenyon Transformer Co., 840 Barry St., New
York, N.Y. (Reactors)

New York Transformer Co., 51 W. 3rd St., New
York, N.Y.

Standard Transformer Corp., 1500 N. Halsted
St., Chicago, Ill.

United Transformer Co., 150 Varick St., New
York, N.Y.

Utah Radio Prods. Co., 842 Orleans St., Chi-
cago, Ill.

CHOKES—R-F.

Ohmite Mfg. Co., 4959 W. Flournoy St., Chi-
cago, Ill.

CO-AXIAL CABLES

American Phenolic Corp., 1250 Van Buren St.,
Chicago, Ill.

COMMUNICATIONS EQUIPMENT

Bendix Aviation, Ltd., North Hollywood, Calif.
Hallicrafters Co., 2611 Indiana Ave., Chicago,
Ill.

Harvey Radio Labs., Inc., 445 Concord Ave.,
Cambridge, Mass.

Sherron Metallic Corp., 1201 Flushing Ave.,
Brooklyn, N.Y. (Components)

CONDENSERS—See Capacitors

(Continued on page xvi)

1942 Yearbook of the I. R. E.

**SHAKEPROOF
PRODUCTS**

Catalog No. 42

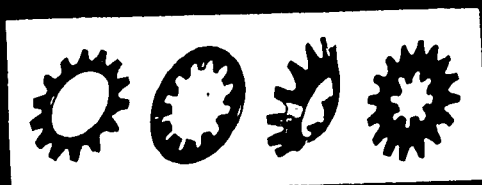
Send for this New Fastening Data Book!

The most comprehensive reference book of its kind ever published—that's the new Shakeproof catalog. It gives complete information on all Shakeproof fastenings, including full explanation of the advantages of each part, application suggestions and detailed data on sizes, dimensions and weights. In addition, many pages are devoted to valuable related engineering data and there is a special section covering government approvals. Every design engineer and production man will find this book a ready source for ways to improve product performance and increase assembly efficiency. Send for your copy now!

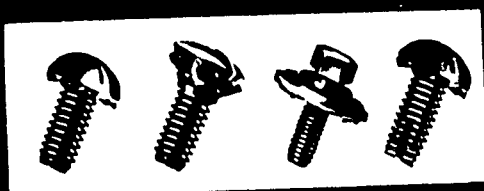
SHAKEPROOF

SEMS FASTENER UNITS • LOCK WASHERS • LOCKING AND PLAT
SPRING WASHERS • RADIO AND INSTRUMENT GEARS •

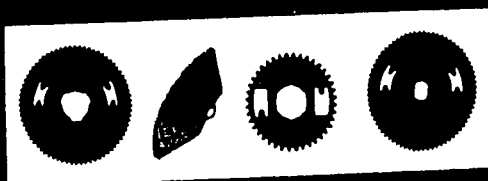
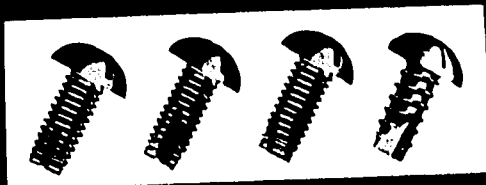
*..To help you
build it BETTER!*



SHAKEPROOF



SEALS



P R O O F inc.

G. AND PLAIN TERMINALS • THREAD CUTTING SCREWS • LOCKING SCREWS
SEALS • ENGINEERED SHAKEPROOF PARTS • SPECIAL STAMPINGS

FOR VITAL MILITARY and INDUSTRIAL APPLICATIONS



THE service record of Ohmite Products on land, sea and in the air, in every climate, has proved their complete dependability. Today, Ohmite Rheostats, Resistors, Chokes and Tap Switches are used in endless variety and number in military, radio, electronic and industrial applications. Widest range of types and sizes makes it easier to meet your exact requirements. Many stock items. Units produced to Government specifications or designed for you by experienced Ohmite Engineers.

Ohmite Rheostats Widely used in radio transmitters and electronic equipment. Insure permanently smooth, exact control. Ten sizes from 25 to 1000 watts in stock or special units.

OHMITE MANUFACTURING CO., 4959 Hournoy St., Chicago, U.S.A.
Foremost Manufacturers of Power Rheostats, Resistors, Tap Switches

Be Right with **OHMITE**
RHEOSTATS • RESISTORS • TAP SWITCHES

Ohmite Resistors Fixed, adjustable or tapped; regular, precision or non-inductive. From 1 to 1500 watts. Variety of terminals and mountings.

Ohmite Tap Switches Multi-point, load-break, non-shortening rotary selectors. Five sizes rated at 10, 15, 25, 50 and 100 amperes, A.C.

Send for Catalog and Manual No 40

96 pages of helpful information and engineering data on the selection and application of Rheostats, Resistors, Chokes, Attenuators, Tap Switches. Write on company letterhead for your copy today.



Product Index

CONNECTORS

American Phenolic Corp., 1250 Van Buren Ave., Chicago, Ill. (Electrical Connectors to U. S. and British Military specifications)

CONTACTS—Electrical

P. R. Mallory & Co., Inc., 3029 E. Washington St., Indianapolis, Ind.

CONTROLS—Magnetic

R.B.M. Mfg. Co., Logansport, Ind.

CORDS

Lenz Elec. Mfg. Co., 1751 N. Western Ave., Chicago, Ill.

CORE MATERIALS

Advance Solvents & Chemical Corp., 245 5th Ave., New York, N.Y. (GAW Carbonyl Iron)
Stackpole Carbon Co., St. Marys, Pa. (Powdered Iron)

COUPLINGS

Allen D. Cardwell Mfg. Corp., 81 Prospect St., Brooklyn, N.Y. (Insulated, rigid and flexible)

CRYSTALS—Quartz

Bliley Elec. Co., Union Station Bldg., Erie, Pa.

EQUALIZERS—Audio

United Transformer Co., 150 Varick St., New York, N.Y.

FASTENER UNITS

Shakeproof, Inc., 2501 N. Keeler Ave., Chicago, Ill.

FILTERS—Audio

Bendix Aviation, Ltd., North Hollywood, Calif.
Kenyon Transformer Co., 840 Barry St., New York, N.Y.

New York Transformer Co., 51 W. 3rd St., New York, N.Y.

United Transformer Co., 150 Varick St., New York, N.Y.

FILTERS—Band Pass

Kenyon Transformer Co., 840 Barry St., New York, N.Y.

New York Transformer Co., 51 W. 3rd St., New York, N.Y.

United Transformer Co., 150 Varick St., New York, N.Y.

FILTERS—Interference

Cornell-Dubilier Elec. Corp., 1012 Hamilton Blvd., South Plainfield, N.J.

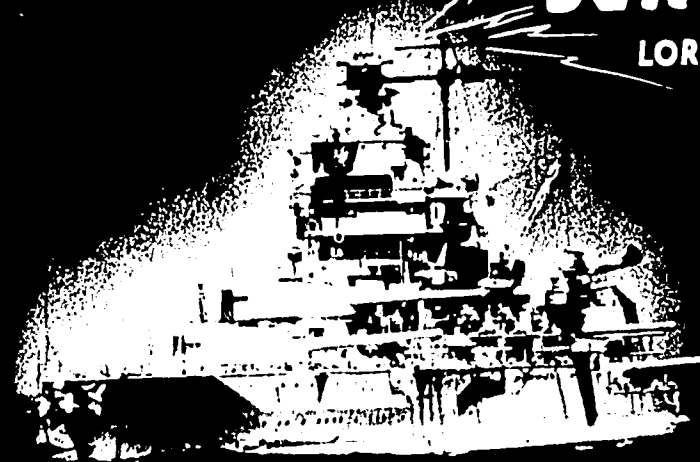
Sprague Products Co., North Adams, Mass.

(Continued on page xviii)

1942 Yearbook of the I. R. E.

"... FOR THE LOVE OF
GOD... LET US HAVE
...SOME GREAT SHOT
SENT US..."

LORD HOWARD—BATTLE OF SPANISH ARMADA



ODAY three quarters of the world is crying, "For the love of God let us have, and with great haste, more tanks, guns, planes, ammunition, trucks, etc." There can be no doubt in the hearts and minds of all Americans that these demands must and shall be met with all possible haste.

Of equal importance is the reliability of this armament and the permanency of its associated equipment. Greater than we realize is the part radio communication is playing—vital in its necessity, absolute in its dependability. The foundation of all radio equipment is transformers.

We at Kenyon take justifiable pride in knowing that whatever small part has been ours to contribute, then that part carries the character of our company. It is significant that wherever you see the Kenyon "mark of excellence", you will know that the men around it have seen fit to place their lives and their destiny on, "There can be no failure".

To these three-quarters of the world, we are at your service and, "For the love of God we will give you more shot and with greater speed".



THE MARK OF
EXCELLENCE

KENYON TRANSFORMER CO., INC.
840 BARRY ST., NEW YORK, U. S. A.

HUGH H. EBY, INC.

An organization furnishing quality components, exclusively for Uncle Sam's war program, to the telephone, telegraph and radio industry.

Binding Posts

Insulated and all metal screw and spring head binding posts, also, a complete line of shielded binding posts.

Sockets

Molded for standard, low loss and ultra high frequency circuits

Plugs

Molded and fabricated

Terminals

Individual, pairs or multiples in any form

Jacks

For telephone, telegraph and radio apparatus

Have you seen the specification sheet on our 'Ultratone'

molded products—sockets, coil forms etc.? It may solve your ultra high frequency problems.

HUGH H. EBY, INC.

4700 Stenton Avenue

Philadelphia, Pa.

Product Index

F.M. RECEIVERS

Browning Labs., Inc., 750 Main St., Winchester, Mass.

Espey Mfg. Co., Inc., 305 E. 63rd St., New York, N.Y.

Hallicrafters Co., 2611 Indiana Ave., Chicago, Ill.

Harvey Radio Labs., Inc., 445 Concord Ave., Cambridge, Mass.

F.M. TRANSMITTERS

General Electric Co., Bridgeport, Conn.

FREQUENCY METERS

Browning Labs., Inc., 750 Main St., Winchester, Mass. (Custom-built)

GEARS

Shakeproof, Inc., 2501 N. Keeler Ave., Chicago, Ill. (Radio and Instrument)

HEAD SETS

Utah Radio Prods. Co., 842 Orleans St., Chicago, Ill.

INSULATORS

American Lava Corp., Chattanooga, Tenn.

Isolantite, Inc., 233 Broadway, New York, N.Y.

IRON POWDERS

Advance Solvents & Chemical Corp., 245 5th Ave., New York, N.Y. (GAW Carbonyl)

Stackpole Carbon Co., St. Marys, Pa.

JACKS—Phone

Hugh H. Eby, Inc., 4700 Stenton Ave., Philadelphia, Pa.

P. R. Mallory & Co., Inc., 3029 E. Washington St., Indianapolis, Ind.

Utah Radio Prods. Co., 842 Orleans St., Chicago, Ill.

LOCK NUTS and WASHERS

Elastic Stop Nut Corp., 2330 Vauxhall Rd., Union, N.J. (Self-locking)

Shakeproof, Inc., 2501 N. Keeler Ave., Chicago, Ill. (Lock Washers)

LOUDSPEAKERS

Jensen Radio Mfg. Co., 6601 S. Laramie Ave., Chicago, Ill.

Utah Radio Prods. Co., 842 Orleans St., Chicago, Ill.

MARINE RADIOPHONES

Hallicrafters Co., 2611 Indiana Ave., Chicago, Ill.

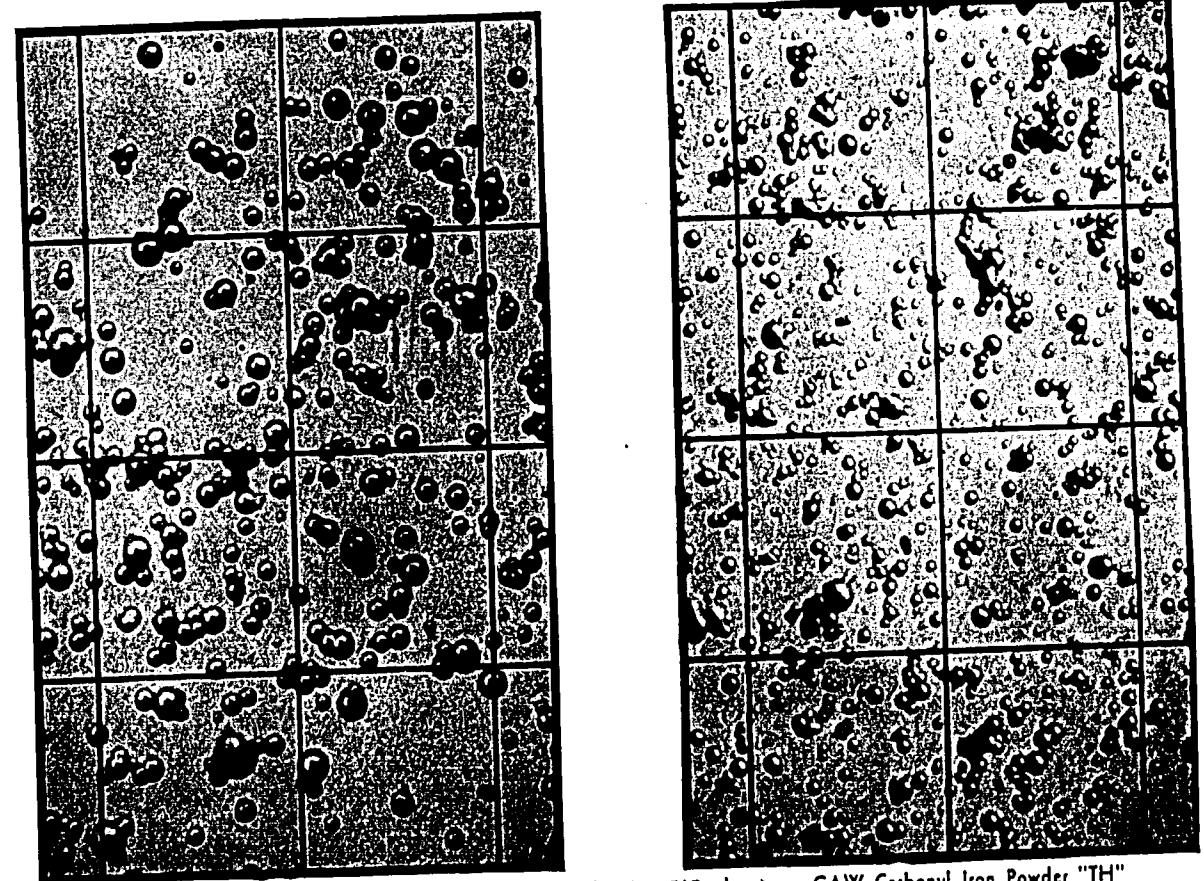
(Continued on page xx)

1942 Yearbook of the I. R. E.

Benefiting DESIGNERS
MANUFACTURERS of COMMUNICATIONS
OPERATORS EQUIPMENT

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Product of General Aniline Works
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New York, N. Y.



GAW Carbonyl Iron Powder "E"
A superior core material for normal frequencies

← (Magnification 515X) →

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The outstanding core material for high frequencies

for PEAK PERFORMANCE you can depend upon
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xix

It's Powered Right

When it's Powered with

Taylor HEAVY CUSTOM BUILT DUTY **Tubes**

Designed, engineered and built for gruelling 24 hour a day applications, Taylor Tubes have proved their ability to "stand up" under the most adverse conditions of service. Famous for their high *Safety Factors, long efficient life and lower operating costs*, Taylor Tubes provide the maximum in rugged dependability. Their outstanding record of success is growing daily.

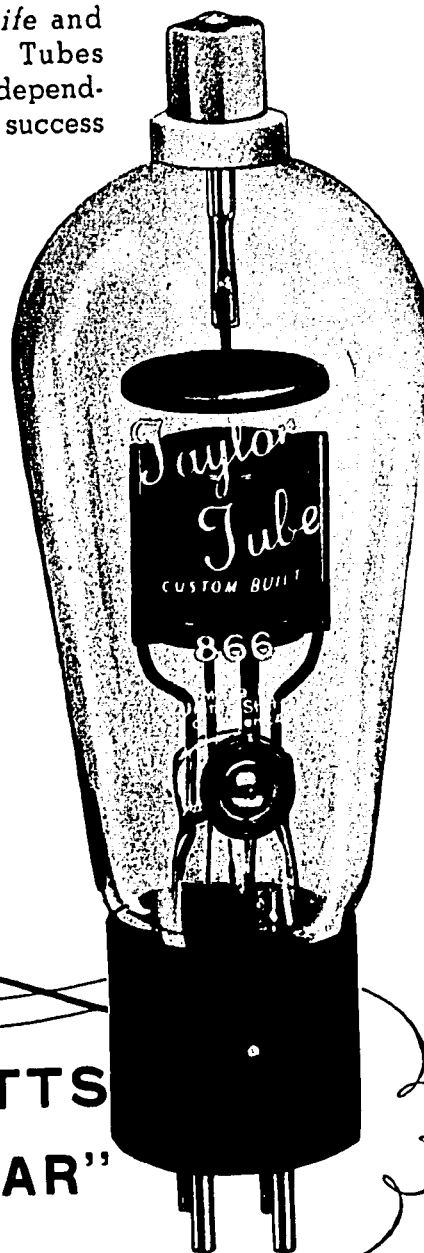
✓ **TRANSMITTER**

✓ **RECTIFIER**

✓ **ELECTRONIC**

✓ **INDUSTRIAL**

Taylor Tubes, Inc.
is now licensed
by RCA.



"MORE WATTS
PER DOLLAR"

TAYLOR TUBES INC.,
2341 Wabansia Avenue, Chicago, Illinois

Product Index

MEASURING INSTRUMENTS—See Meters

METERS—Ammeters

Precision Apparatus Co., 647 Kent Ave., Brooklyn, N.Y.
Simpson Elec. Co., 5212 W. Kinzie St., Chicago, Ill.
Triplett Elec. Inst. Co., 211 Harmon Ave., Bluffton, Ohio
Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.

METERS—Electronic or Vacuum Tube

Ballantine Labs., Inc., Boonton, N.J.
General Radio Co., 30 State St., Cambridge, Mass. (Vacuum Tube)
Hewlett-Packard Co., 481 Page Mill Rd., Palo Alto, Calif.
Precision Apparatus Co., 647 Kent Ave., Brooklyn, N.Y.
Triplett Elec. Inst. Co., 211 Harmon Ave., Bluffton, Ohio

METERS—Frequency

General Radio Co., 30 State St., Cambridge, Mass.

METERS—Ohmmeters

General Electric Co., 30 State St., Cambridge, Mass.
Precision Apparatus Co., 647 Kent Ave., Brooklyn, N.Y.
Simpson Elec. Co., 5212 W. Kinzie St., Chicago, Ill.
Triplett Elec. Inst. Co., 211 Harmon Ave., Bluffton, Ohio

METERS—Power Level

Daven Co., 158 Summit St., Newark, N.J.
General Radio Co., 30 State St., Cambridge, Mass.
Simpson Elec. Co., 5212 W. Kinzie St., Chicago, Ill.
Triplett Elec. Inst. Co., 211 Harmon Ave., Bluffton, Ohio

METERS—Voltmeters

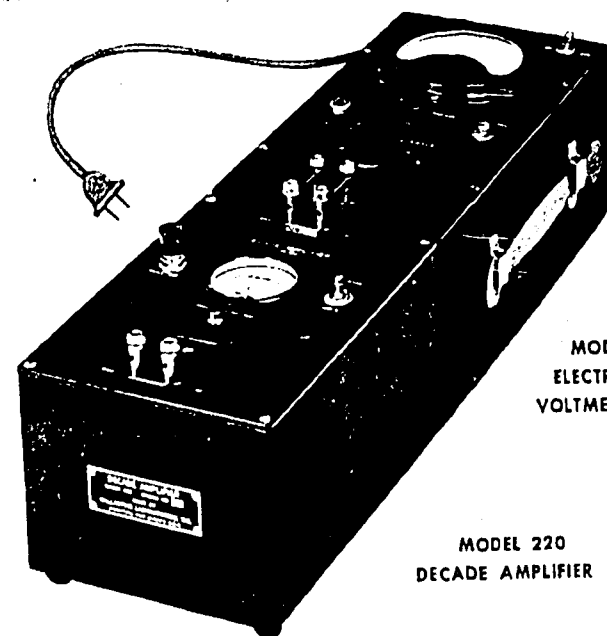
Ballantine Labs., Inc., Boonton, N.J.
Measurements Corp., Intervale Rd., Boonton, N.J.
Precision Apparatus Co., 647 Kent Ave., Brooklyn, N.Y.
Simpson Elec. Co., 5212 W. Kinzie St., Chicago, Ill.

(Continued on page xxii)

1942 Yearbook of the I. R. E.

1942 Yearbook of the

New DECADE AMPLIFIER MODEL 220



MODEL 300
ELECTRONIC
VOLTMETER

MODEL 220
DECADE AMPLIFIER

NEW ACCESSORY FOR MODEL 300 VOLTMETER FOR MEASUREMENT OF VERY LOW A-C VOLTAGES

Decade Amplifier: This is a highly stable amplifier giving accurately standardized gains of 10x or 100x over a frequency range of 10 to 100,000 cycles. Operated by self-contained batteries having a life of over 150 hours. Used with our Model 300 Electronic Voltmeter (as shown in cut) A-C voltages down to 0.00003 volt (30 microvolts) can be measured. By means of special circuits the gain is independent within 2% of circuit constants, battery voltages and tubes. Fully described in Bulletin 7.

Electronic Voltmeter: A popular instrument for the measurement of A-C voltages, 10 to 150,000 cycles, 1 millivolt to 100 volts (up to 1000 and 10,000 volts with Model 402 Multipliers). Logarithmic voltage scale and auxiliary uniform decibel scale. A-C operated. By means of special circuits indications are independent of line-voltage, tubes and circuit constants within 3% over entire frequency range. Several accessories, such as an artificial ear, vibration pickup and multipliers are available. Fully described in Bulletin 6.

MADE BY

Ballantine Laboratories, Inc.

BOONTON, NEW JERSEY

ELECTRICAL AND ACOUSTICAL INSTRUMENTS

Product Index

Triplett Elec. Inst. Co., 211 Harmon Ave., Bluffton, Ohio

Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.

METERS—Field Strength

Measurements Corp., Intervale Rd., Boonton, N.J.

MICROPHONES

Bendix Aviation, Ltd., North Hollywood, Calif.
Shure Bros., 225 W. Huron St., Chicago, Ill.
(Broadcasting, Communications, Public Address, Military Types, Dynamic, Crystal, Carbon, Sound Measurement, Super-Cardioid and Cardioid)

NEEDLES—Recording and Reproducing

Duotone Co., Inc., 799 Broadway, New York, N.Y.

NUTS

Elastic Stop Nut Corp., 2332 Vauxhall Rd., Union, N.J. (Self-locking, Instrument Mounting, Clinch)

OSCILLOGRAPHS—Cathode-Ray

Allen B. DuMont Labs., 2 Main Ave., Passaic, N.J.

OSCILLATORS—See Test Equipment

PANELS

A. W. Franklin Mfg. Corp., 175 Varick St., New York, N.Y. (Bakelite and Laminated)
Par-Metal Prods. Corp., 32-62 49th St., Long Island City, N.Y. (Metal)
Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn, N.Y. (Metal)

PERMEABILITY TUNING

Advance Solvents & Chemical Corp., 245 5th Ave., New York, N.Y. (GAW Carbonyl Iron Powders)

PHOTO ELECTRIC CELLS

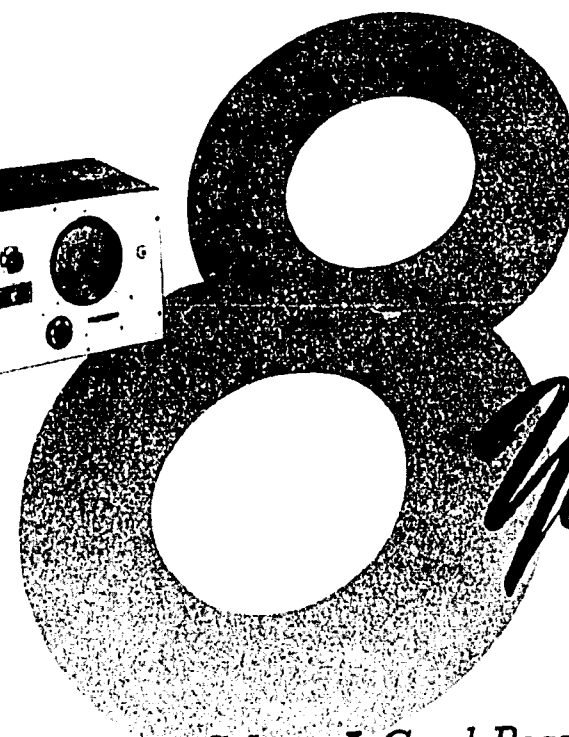
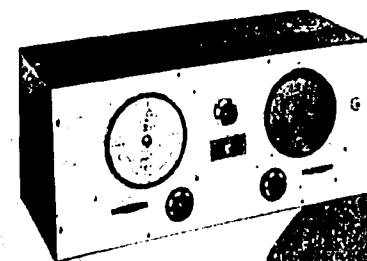
Bradley Labs., Inc., 82 Meadow St., New Haven, Conn.

PICK-UPS

Duotone Co., Inc., 799 Broadway, New York, N.Y. (Pickup Needles, semi-permanent)
Shure Bros., 225 W. Huron St., Chicago, Ill.
(Pickup replacements, cartridges, crystal, phono pickups)

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Years Ago!

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S-19R

S-20R

S-21

S-22

SX-23

SX-24

SX-25

S-27

SX-28

S-1... A Good Receiver!

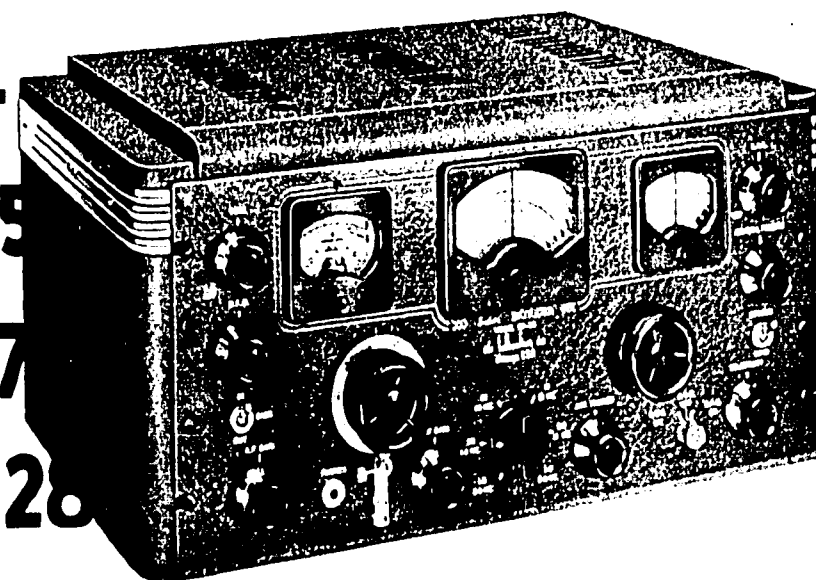
When we first made the S-1 eight years ago it was a good communications receiver and we knew it contained every possible improvement known to our engineers. Eight years is a long time... many improvements have been made, our laboratories have been constantly engaged in research for better communications reception. Our work has been rewarded by your confidence in Hallicrafters communications equipment.

the hallicrafters co.
CHICAGO, U. S. A.

Keep Communications Open

The SX-28... A Good Receiver NOW...

Incorporating many years of engineering research the SX-28 has had world wide acceptance. The fifteen tubes, six bands with a frequency range of from 550 kc. to 42 mc. give a new high in quality performance.



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The

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AND WORLD TRAVELLER

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Frazier Hunt broadcasts world news in a new pattern. No other commentator today has the world-wide experience of Frazier Hunt. He has covered *both* World Wars. "He has met and talked with as many of the world's greatest men and women as any living person."

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ELECTRONIC DEVELOPMENT NEWS

As you well know, electronics itself is making news. Today it is doing important war work. Tomorrow, when peace and victory come, electronics and electronic engineers will do much for business reconstruction. It is ready to offer Americans hundreds of new peace-time products. It will create employment when it will be most needed.

Radio, Television & Electronics Dept., Bridgeport, Conn.

GENERAL  ELECTRIC

Product Index

PLUGS

American Phenolic Corp., 1250 Van Buren St., Chicago, Ill. (Radio, microphone and receptacles)
Hugh H. Eby, Inc., 4700 Stenton Ave., Philadelphia, Pa.
A. W. Franklin Mfg. Corp., 175 Varick St., New York, N.Y.
Utah Radio Products Co., 842 Orleans St., Chicago, Ill.

POLYSTYRENE

American Phenolic Corp., 1250 Van Buren St., Chicago, Ill. (Rod and special molded parts)

POTENTIOMETERS—See Resistors, Variable

POWER SUPPLY PACKS

P. R. Mallory & Co., Inc., 3029 E. Washington St., Indianapolis, Ind. (DC Power Packs)
Standard Transformer Corp., 1500 N. Halsted St., Chicago, Ill.

PUBLIC ADDRESS EQUIPMENT

Standard Transformer Corp., 1500 N. Halsted St., Chicago, Ill.
Terminal Radio Corp., 85 Cortlandt St., New York, N.Y.
Thordarson Elec. Mfg. Co., 500 W. Huron St., Chicago, Ill.
United Transformer Co., 150 Varick St., New York, N.Y.
Utah Radio Prods. Co., 820 Orleans St., Chicago, Ill.

QUARTZ CRYSTALS

Bliley Elec. Co., Union Station Bldg., Erie, Pa.

RACKS

Par-Metal Prods. Corp., 32-62 49th St., Long Island City, N.Y. (Metal Racks, enclosed type)
Sherron Metallic Corp., 1201 Flushing Ave., Brooklyn, N.Y.

RADIO-PHONO COMBINATIONS

Espey Mfg. Co., Inc., 305 E. 63rd St., New York, N.Y.
General Electric Co., Bridgeport, Conn.

REACTORS—See Chokes

RECEIVERS

Communications Co., Inc., P.O. Box 91, Coral Gables, Fla.
General Electric Co., Bridgeport, Conn.

(Continued on page xxv)

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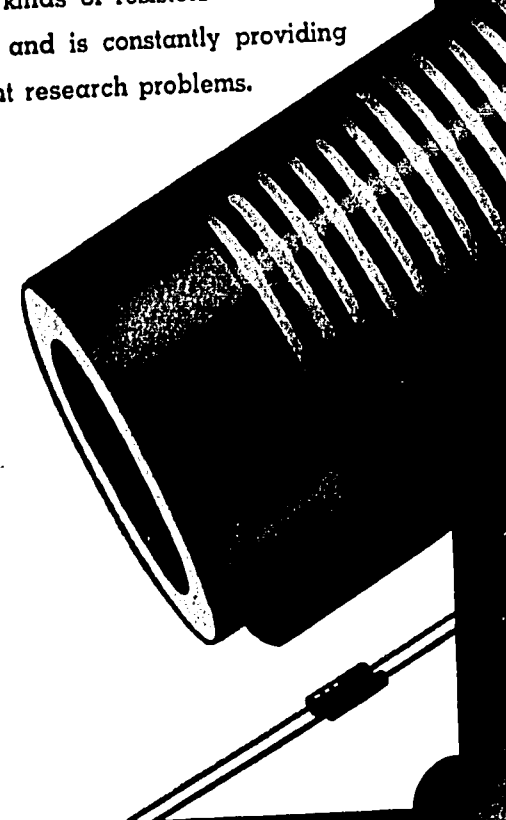
SPECIALIZATION

For 17 years the entire IRC organization has focused its research work, its ability and its energy exclusively upon the design and manufacture of fixed and variable resistors. From this specialization have resulted products of tested quality, a world wide reputation for engineering achievement and a thorough knowledge of resistance problems.

DIVERSIFICATION

This concentration of effort has resulted in the development of many kinds of resistors for widely divergent applications and is constantly providing new designs for current research problems.

- 2 sizes Variable Metallized Controls
- 4 sizes Insulated Metallized Resistors
- 10 sizes High Frequency Metallized Resistors (1/3 to 150 watts)
- 4 sizes Ultra-High Range Metallized Resistors
- 3 sizes All-Metal Power Rheostats (2 to 50 watts)
- 2 sizes Attenuators
- 7 sizes Insulated Wire Wound Resistors (1/2 to 20 watts)
- 11 sizes High Voltage Metallized Resistors
- 5 sizes Metallized Suppressors
- 12 sizes Precision Wire Wound Resistors
- 53 sizes Fixed and Variable Power Wire Wound Resistors

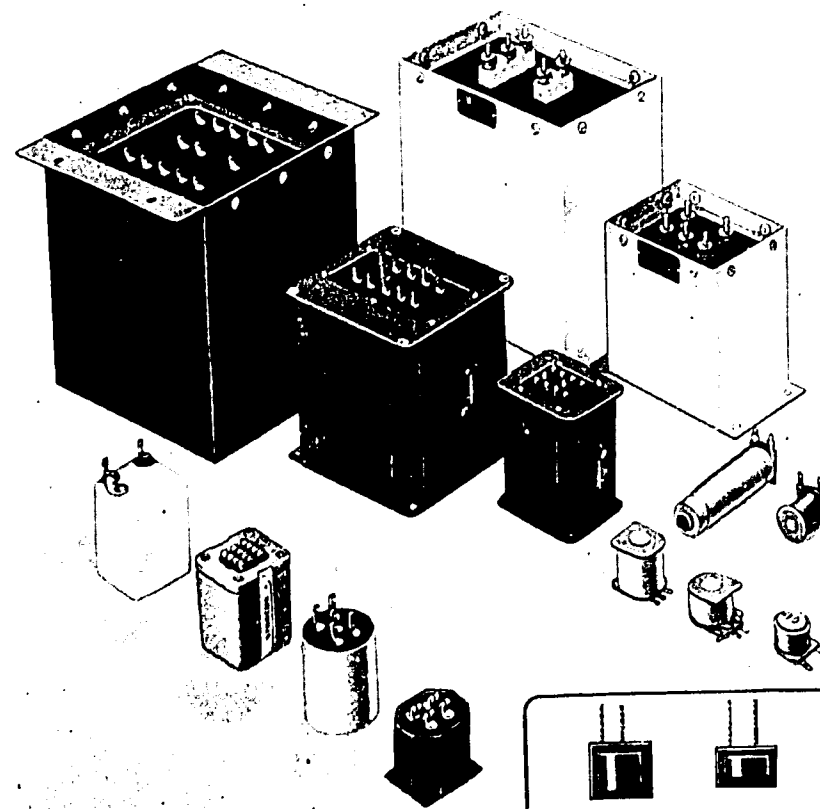


INTERNATIONAL RESISTOR COMPANY
431 N. BROAD STREET
BRIDGEPORT, CONNECTICUT

1942 Yearbook of the I. R. E.

STANCOR

QUALITY TRANSFORMERS FOR RADIO AND ELECTRONIC APPLICATIONS!



The three tiny hearing aid transformers shown at the right have many applications. They are illustrated approximately one-half actual size.

FOR many years, Stancor has been known throughout the radio industry for its production of an excellent variety of commonly used transformers which are ideal for many radio and electronic applications. Leading distributors in all principle cities carry complete stocks.

In addition to its standard line Stancor offers to the development engineers of the electronic industry a service of intelligent helpfulness. In our laboratories you will find the kind of understanding talent and resourcefulness you need.

Stancor offers you a corps of expert technicians who, through years of training in Stancor ideals of accuracy and quality, can assist you in the development of special applications and, subsequently, Stancor can give you quantity production on a quality basis that can be relied upon implicitly.

If you make any electronic apparatus requiring transformers or reactors, we invite you to write regarding your individual problems.

Write for Stancor's latest complete transformer catalog.

STANCOR
STANDARD TRANSFORMER
CORPORATION
1500 NORTH HALSTED STREET . . . CHICAGO

Product Index

Hallicrafters Co., 2611 Indiana Ave., Chicago, Ill.

Harvey Radio Labs., Inc., 445 Concord Ave., Cambridge, Mass.

RCA Mfg. Co., Inc., Camden, N.J.

Terminal Radio Corp., 85 Cortlandt St., New York, N.Y.

Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.

RECORDING HEADS

Shure Bros., 225 W. Huron St., Chicago, Ill.
(Magnetic Recording Heads.)

RECTIFIERS

International Tel. & Tel. Corp. 67 Broad St., New York, N.Y. (Selenium Rectifier)

RECTIFIER TUBES—See Tubes

REGULATORS—Voltage

Acme Elec. & Mfg. Co., 44 Water St., Cuba, N.Y.

General Radio Co., 30 State St., Cambridge, Mass.

Sola Elec. Co., 2525 Clybourn Ave., Chicago, Ill. (Automatic)

Superior Elec. Co., 171 Harrison St., Bristol, Conn. (Manual & Automatic)

United Transformer Co., 150 Varick St., New York, N.Y.

RELAYS

Eitel-McCullough, Inc., 798 San Mateo Ave., San Bruno, Calif. (Vacuum Relays)

R-B-M Mfg. Co., Logansport, Ind.

RESISTORS—Decade

Stackpole Carbon Co., St. Marys, Pa.

RESISTORS—Fixed

Aerovox Corp., New Bedford, Mass.

International Resistance Co., 431 N. Broad St., Philadelphia, Pa.

P. R. Mallory & Co., Inc., 3029 E. Washington St., Indianapolis, Ind.

Ohmite Mfg. Co., 4959 W. Flournoy St., Chicago, Ill.

Sprague Products Co., North Adams, Mass.

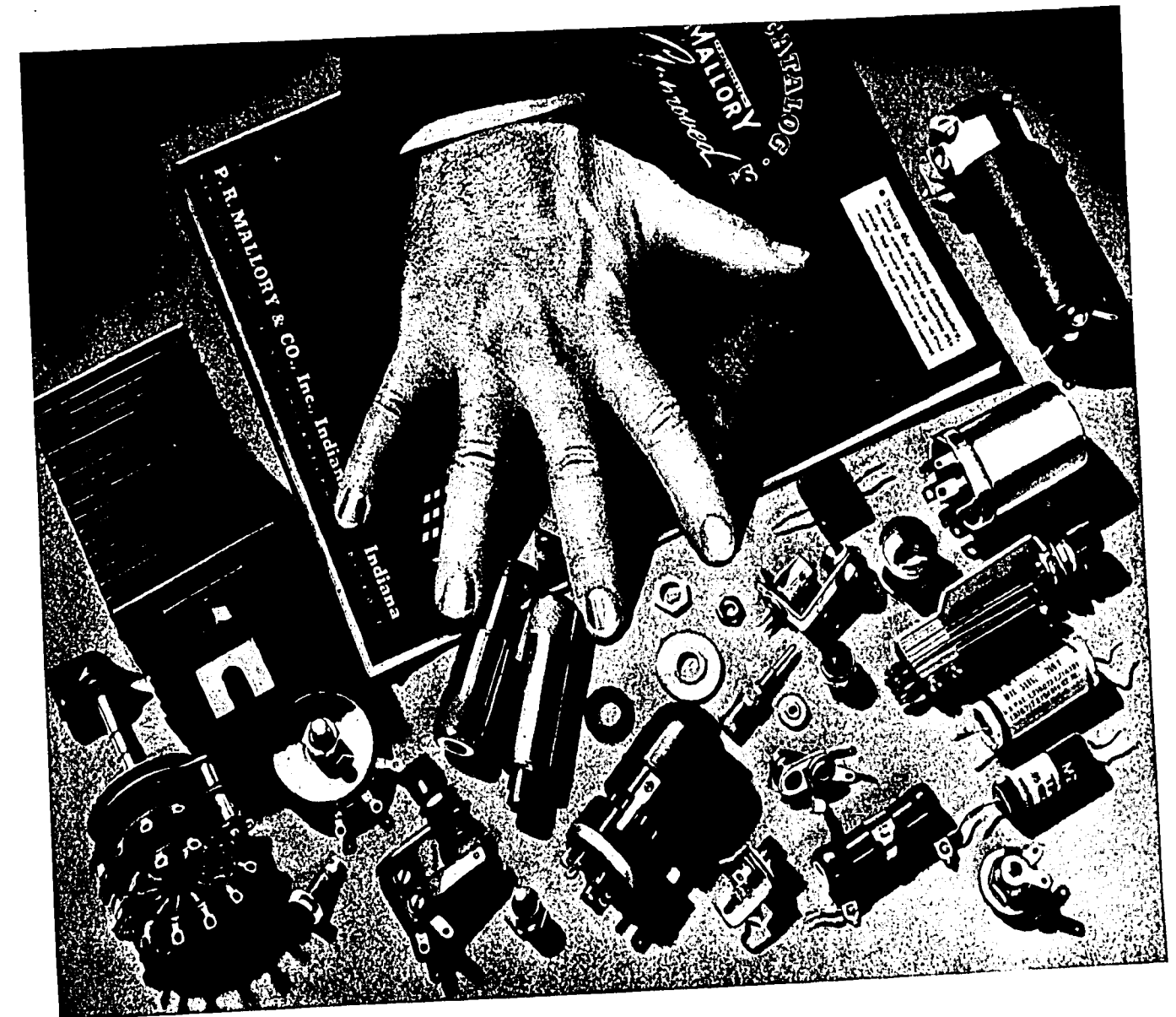
Stackpole Carbon Co., St. Marys, Pa.

Terminal Radio Corp., 85 Cortlandt St., New York, N.Y.

Utah Radio Prods. Co., 842 Orleans St., Chicago, Ill.

(Continued on page xxxviii)

1942 Yearbook of the I. R. E.



You Can Put Your Finger On Parts Like These At Your Mallory Distributor

Mallory makes it easy for you to get essential electronic parts . . . the ones you need for:

- Test or experimental work in your engineering department, research laboratories, pilot plants or proving grounds.
- Replacements in plant equipment.
- Efficient operation of some device you plan to put into production.

Distributors carefully selected by Mallory—253 of them—are ready to serve you promptly. These conveniently located Mallory Distributors keep adequate warehouse stocks. Their representatives

are well trained and able to help solve your problems. Want a rectifier? Condenser? Resistor? Switch? Electronic hardware? Your Mallory Distributor is the man to see.

For handy reference, you'll want the Mallory catalog . . . perhaps several copies for members of your organization. This catalog gives terse, factual information on Mallory parts used in the aeronautical, automotive, electrical, geophysical, radio and other industries. Use this catalog as your buying guide . . . depend on your Mallory Distributor as your supplier . . . for your industrial electronic needs.



Write today for free catalog covering entire line of Mallory Approved Precision Products.

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MALLORY

P. R. MALLORY & CO., Inc.
INDIANAPOLIS INDIANA
Cable Address—PELMALLO

STACKPOLE PRODUCTS SPEED UP PRODUCTION

SPECIFY STACKPOLE SWITCHES

- Slide Operated Switches
- Rotary Operated Switches
- Toggle Operated Switches

There's a Stackpole Switch for every small circuit use—from single pole, single throw to four pole, double throw—and all combinations between. If you want positive action and sturdy construction, specify *Stackpole*—the little switch that does a big job!

SPECIFY STACKPOLE RESISTORS

- Variable and
- Fixed

For every type of volume, tone and sensitivity control, as well as special applications for other uses. All Stackpole controls are made with materials satisfactory to the various government branches, and available in complete resistance ranges and curves.

SPECIFY STACKPOLE IRON CORES

- Fixed Inductance
- Variable Inductance
- Station Tuning

Stackpole can supply you with any type of powdered iron cores, with or without adjusting screws. All are superior in mechanical strength and uniform throughout in construction. In requesting samples, please send test coils and complete data.

WRITE FOR SAMPLES & PRICES
Sold to Manufacturers Only

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CARBON COMPANY
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OUR SERVICE NOW IS FOR DEFENSE

COMPLETE UNIT PRODUCTION—QUALITY CRAFTSMANSHIP

ELECTRICAL DIVISION

Products Engineering
on any Electronic Device—

Quality Amplifiers—
Communications System Components—

Conversion of Laboratory Models
into Commercial Production—

SHEET METAL DIVISION

Metal Chassis and Cabinet Fabrication—
Stamping—Forming—Welding—Finishing

Equipment and Wiring for Communications Companies

LET US COOPERATE WITH YOU

SHERRON METALLIC CORPORATION

1201 FLUSHING AVENUE—BROOKLYN—NEW YORK

Product Index

RESISTORS—Variable

Aerovox Corp., New Bedford, Mass.

International Resistance Co., 431 N. Broad St., Philadelphia, Pa.

P. R. Mallory & Co., Inc., 3029 East Washington St., Indianapolis, Ind.

Ohmite Mfg. Co., 4959 W. Flournoy St., Chicago, Ill.

Sprague Products Co., North Adams, Mass.

Stackpole Carbon Co., St. Marys, Pa.

Terminal Radio Corp., 85 Cortlandt St., New York, N.Y.

Utah Radio Products Co., 842 Orleans St., Chicago, Ill.

RESISTORS—Wire Wound

Aerovox Corp., New Bedford, Mass.

Daven Company, 158 Summit St., Newark, N.J.

International Resistance Co., 431 N. Broad St., Philadelphia, Pa.

P. R. Mallory & Co., Inc., 3029 E. Washington St., Indianapolis, Ind.

Ohmite Mfg. Co., 4959 W. Flournoy St., Chicago, Ill.

Sprague Prods. Co., North Adams, Mass.

Stackpole Carbon Co., St. Marys, Pa.

Terminal Radio Corp., 85 Cortlandt St., New York, N.Y.

Utah Radio Products Co., 842 Orleans St., Chicago, Ill.

RESPONSE RECORDER

Sound Apparatus Co., 150 W. 46th St., New York, N.Y.

RHEOSTATS

Daven Co., 158 Summit St., Newark, N.J. (Filament Rheostats)

International Resistance Co., 431 N. Broad St., Philadelphia, Pa. (All-Metal Power)

Ohmite Mfg. Co., 4959 W. Flournoy St., Chicago, Ill. (All Ceramic, Close Control)

SCREWS

Shakeproof, Inc., 2501 N. Keeler Ave., Chicago, Ill. (Thread-Cutting)

SIGNAL GENERATORS—See Test Equipment

(Continued on page xxx)

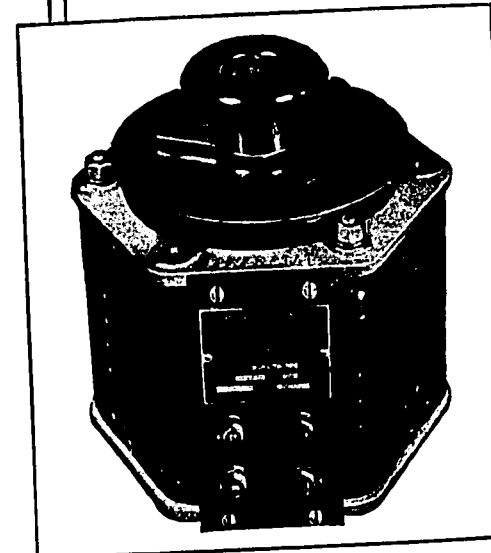
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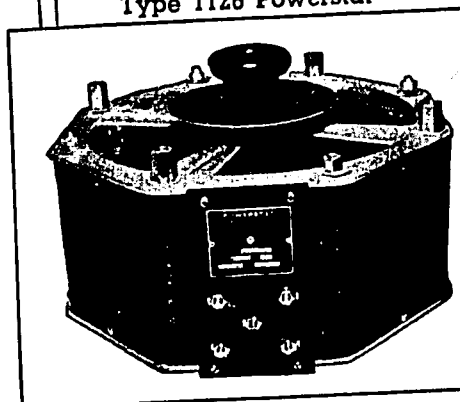
POWERSTAT

VARIABLE TRANSFORMERS

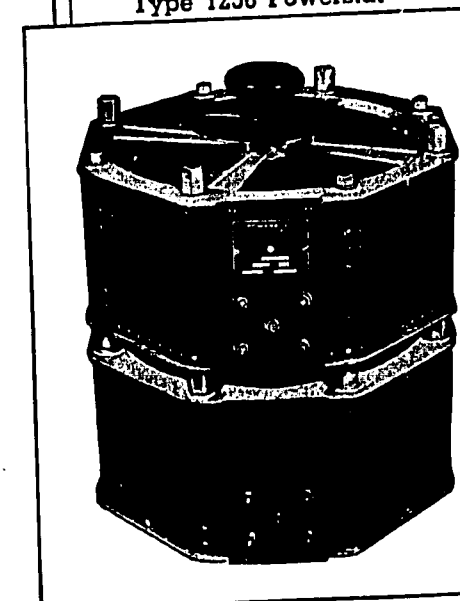
And Seco Automatic Voltage Regulators



Type 1126 Powerstat



Type 1256 Powerstat



Three-Phase Powerstat

Powerstat—the variable transformer that accurately controls power for all electronic and radio purposes solves such power problems as Tube Filament Voltage Control, Transmitter Bias Power Supply Voltage Control, and Transmitter Plate Supply Control.

Type 1126 Powerstat

Input: 115 volts 50/60 cycles

Output: 2.0 KVA

Max. Rated Output Current: 15 amp. available over entire range of output voltages

Output Voltage Range: 0 to 135 volts

No-load Power Loss: 16 watts

Over-all Dimensions: 8 x 8 x 7 7/8 inches

Net weight: 20 lbs.

Type 1256 Powerstat

Input: 230/115 volts 50/60 cycles

Output: 7.5 KVA on 230 volt line

Max. Rated Output Current: 28 amp. available over entire range of output voltages

Output Voltage Range: 0 to 270 volts

No-load Power Loss: 40 watts

Over-all Dimensions: 14 3/4 x 14 3/4 x 8 inches

Net Weight: 66 lbs.

Typical Three Phase Powerstat Type 1256-2

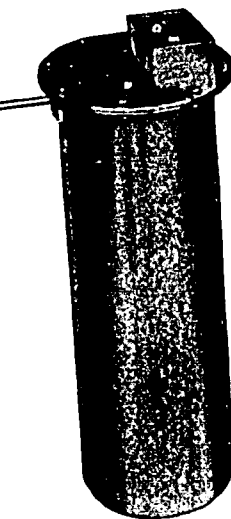
Input: 230/115 volts 3 phase 50/60 cycles

Output: 13.1 KVA on 230 volt line

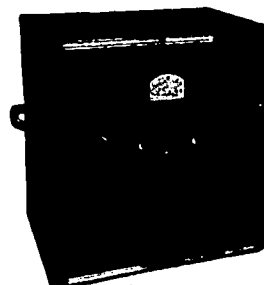
Max. Rated Output Current: 28 amp. available over entire range of output voltages

Output Voltage Range: 0 to 270 volts

Connection: See figure 7 of Bulletin 149

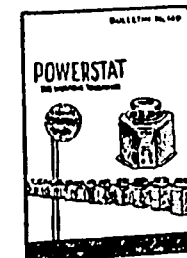


Oil Mounted Powerstat in Stainless Steel Tank



Seco Automatic Voltage Regulator

is used for radio transmitters and many types of electronic devices requiring reasonably close tolerances of line voltages. Important for radio transmitters located at the ends of long feeder lines where regulation is poor and voltage fluctuation is wide (Send for Bulletin 149 ER).



Send for Powerstat Bulletin 149 ER

Superior Electric Co.

171 HARRISON ST.

BRISTOL, CONN.

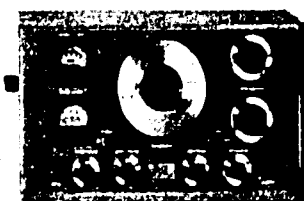
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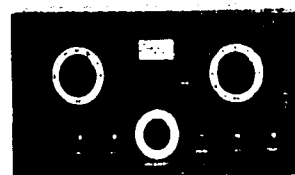
LABORATORY INSTRUMENTS For Speed and Accuracy



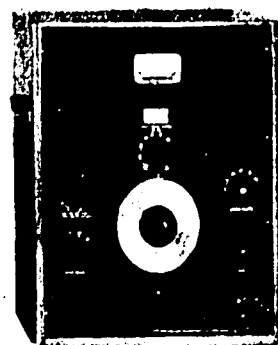
Series 200 Resistance Tuned Oscillator—Consists of -hp- Resistance Tuned Oscillator only. Available in cabinet or for relay rack mounting in models A, B, C and D, covering frequency range from 7 c.p.s. to 200 kc.



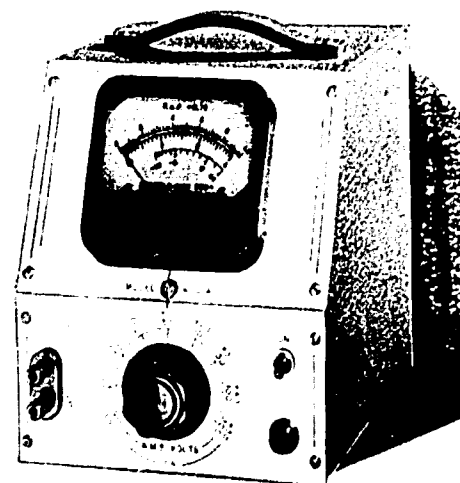
No. 205 AG Audio Signal Generator—Combines a Resistance tuned oscillator having 5 watts output and less than 1% distortion, plus Output meter, Input meter, Attenuator and an impedance matching system... all in a single unit.



Model 320 Series Distortion Analyzers—For studying and measuring harmonic distortion in AP apparatus. Shows character of distortion being measured. 320A for measuring at 400 c.p.s. or 5000 c.p.s. 320B for measuring 50, 100, 400, 1000, 5000 and 7500 c.p.s.



Model 300A Harmonic Wave Analyzer—Measures individual components of complex waves from 30 c.p.s. to 16,000 c.p.s.



Model 400A Vacuum Tube Voltmeter
See brief description below.

-hp-RESISTANCE-TUNED OSCILLATORS have many advantages

The resistance-tuned principal is a stabilized amplifier with regeneration supplied through a frequency selective resistance capacity network. The oscillation frequency is stable and the thermal drift extremely low. Furthermore, the thermal drift is not magnified as is the case with the beat frequency oscillator. A balancing circuit automatically selects the proper operating point for the oscillator. The result...a stable oscillator having constant output and very low distortion.

Other -hp- instruments include these designed for measuring wave form: The Harmonic Wave Analyzer, and Distortion Analyzers. Selectivity of the Wave Analyzer can be varied over a wide range by means of a unique selective amplifier. Accuracy, flexibility, stability and extreme ease of operation make it a great saver of time in both laboratory and production work.

-hp- Vacuum Tube Voltmeter (illustrated above) has a voltage range from .03 volts to 300 volts. The response of the meter is constant from 10 c.p.s. to 1,000,000 c.p.s. Measurements with this instrument are particularly accurate because the indication is proportional to the average value of the full wave...thus waveform errors are reduced.

WRITE FOR COMPLETE DETAILS AND TECHNICAL DATA
You'll profit many ways by investigating the outstanding merit of -hp- Laboratory instruments. There's no obligation, of course

HEWLETT-PACKARD



COMPANY

Box 135 B, Station A : Palo Alto, California, U S A.

Product Index

SOCKETS

American Phenolic Corp., 1250 Van Buren St., Chicago, Ill. (Vacuum Tube and all types)

Hugh H. Eby, Inc., 4700 Stenton Ave., Philadelphia, Pa.

A. W. Franklin Mfg. Corp., 175 Varick St., New York, N.Y. (Molded, Laminated, Ceramic)

SQUARE WAVE GENERATORS

Measurements Corp., Intervale Rd., Boonton, N.J.

STAMPINGS

A. W. Franklin Mfg. Corp., 175 Varick St., New York, N.Y. (Metal and Laminated)

Par-Metal Prods. Corp., 32-62 49th St., Long Island City, N.Y. (Metal pressed and welded)

SWITCHES

Bendix Aviation, Ltd., North Hollywood, Calif. (Vacuum)

Daven Co., 158 Summit St., Newark, N.J.

A. W. Franklin Mfg. Corp., 175 Varick St., New York, N.Y.

Heintz & Kaufman Ltd., South San Francisco, Calif. (Radio Frequency Band)

P. R. Mallory & Co., Inc., 3029 E. Washington St., Indianapolis, Ind. (Wave Change, Tap)

Ohmite Mfg. Co., 4959 W. Flournoy St., Chicago, Ill. (Rotary, High Amperage, Ceramic)

R-B-M Mfg. Co., Logansport, Ind.

Stackpole Carbon Co., St. Marys, Pa. (Rotary and Slide Operated)

Utah Radio Prods. Co., 842 Orleans St., Chicago, Ill.

TELEVISION—Receivers

Espey Mfg. Co., Inc., 305 E. 63rd St., New York, N.Y.

Farnsworth Television & Radio Corp., Fort Wayne, Ind.

General Electric Co., Bridgeport, Conn.

RCA Mfg. Co., Inc., Camden, N.J.

TELEVISION—Transmitters

Farnsworth Television & Radio Corp., Fort Wayne, Ind.

General Electric Co., Bridgeport, Conn.

RCA Mfg. Co., Inc., Camden, N.J.

TERMINALS

Hugh H. Eby, Inc., 4700 Stenton Ave., Philadelphia, Pa.

General Radio Co., 30 State St., Cambridge, Mass.

(Continued on page xxxii)

1942 Yearbook of the I. R. E.

AN ORGANIZATION EQUIPPED IN EVERY WAY TO FILL EVERY RADIO AND ELECTRONIC REQUIREMENT...

Our Tremendous Stock incorporates all these well known makes and others equally desirable . . .

AEROVOX • ALLIED RELAY • AMPHENOL • A T R
AMPEREX • ASTATIC • AUDAK • B & W • BELDEN
BIRNBACH • BLILEY • BRUSH • BUD • BURGESS
CANNON • CARDWELL • CENTRALAB • CINAUD-
AGRAPH • CORNELL-DUBILIER • DRAKE • DUNCO
ECHOPHONE • EIMAC • ESICO • ELECTROVOICE
GAMMATRON • GUARDIAN • HALLICRAFTERS
HAMMARLUND • I R C • JENSEN • JONES
KENYON • LITTELFUSE • MALLORY • MEISSNER
MILLEN • MILLER • MUELLER • NATIONAL
OHMITE • PAR-METAL • PRESTO • RAYTHEON
R C A • SHURE • SPEED-X • TAYLOR
THORDARSON • TRIMM • TRIPLETT • U T C
VASCO • WEBSTER-RAULAND • WESTON

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TERMINAL is a name well known in radio for good service. Our complete stocks and expert personnel assure you of speedy delivery of all your radio requirements.

TERMINAL RADIO CORP.

85 Cortlandt Street • New York, N. Y.

Telephone-WOrth 2-4416

1942 Yearbook of the I. R. E.

xxx

SPEED • on special orders with
rigid specifications



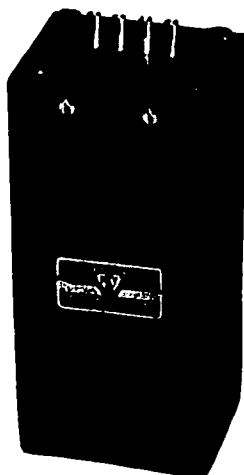
Complete machine
shop and laboratory
facilities.

HARVEY 100-XE. 100-Watt Transmitter. Rapid frequency
shift. 10 Crystal-controlled frequencies. Withstands extreme climatic conditions.

HARVEY Radio Laboratories, Inc.

445 CONCORD AVENUE, CAMBRIDGE, MASS.

TRANSFORMERS
REACTORS
FILTERS



Designed and custombuilt to your specification by master craftsmen.

SPECIAL SAMPLE DEPARTMENT

Recognizing the need for speed in turning out sample units to meet deadlines, New York Transformer Co. some time ago, organized a special department for this work. This department is making transformer history due to the fact that in many instances it is able to deliver special transformers in a short time.

Supplier to foremost manufacturers of electronic devices demanding highest quality.



NEW YORK TRANSFORMER CO.
51 WEST 3rd ST., NEW YORK, N. Y.

Product Index

Shakesproof, Inc., 2501 N. Keeler Ave., Chicago, Ill. (Locking and plain)

TEST EQUIPMENT—Bridges

General Radio Co., 30 State St., Cambridge, Mass.

TEST EQUIPMENT—Capacity Testers

Solar Mfg. Corp., 586 Avenue A, Bayonne, N.J.

TEST EQUIPMENT—Resistance Testers

Acme Elec. & Mfg. Co., 44 Water St., Cuba, N.Y. (Insulation breakdown testers)
International Resistance Co., 431 N. Broad St., Philadelphia, Pa.

TEST EQUIPMENT—Signal Generators A.F.

Espey Mfg. Co., Inc., 305 E. 63rd St., New York, N.Y.

General Radio Co., 30 State St., Cambridge, Mass.

Hewlett-Packard Co., 481 Page Mill Rd., Palo Alto, Calif.

Precision Apparatus Co., 647 Kent Ave., Brooklyn, N.Y.

Simpson Elec. Co., 5212 W. Kinzie St., Chicago, Ill.

TEST EQUIPMENT—Signal Generators R.F.

General Radio Co., 30 State St., Cambridge, Mass.

Measurements Corp., Intervale Rd., Boonton, N.J. (Standard 75 Kc to 500 Mc, also Pulse Generator)

Simpson Elec. Co., 5212 W. Kinzie St., Chicago, Ill.

TEST EQUIPMENT—Tube Testers

General Radio Co., 30 State St., Cambridge, Mass.

Precision Apparatus Co., 647 Kent Ave., Brooklyn, N.Y.

Simpson Elec. Co., 5212 W. Kinzie St., Chicago, Ill.

Triplett Elec. Inst. Co., 211 Harmon Ave., Bluffton, Ohio

TEST EQUIPMENT—Wave Analyzers

Daven Co., 158 Summit St., Newark, N.J.

General Radio Co., 30 State St., Cambridge, Mass.

(Continued on page xxxiv)

FOR YOUR NEW
RESPONSIBILITIES

SPRAGUE
KOOLOHMS

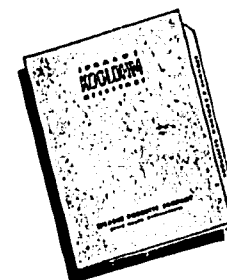
Help You Meet Those "Impossible" Specifications

Sprague Koolohms are not "just another" make of resistor, they embody exclusive structural and design features that make them the greatest wire wound resistor development in 20 years. That is why Koolohms have met specifications heretofore impossible—have proved particularly helpful in meeting the exact demands made of war manufacturers. Because they have set new high standards of performance under adverse salt water immersion conditions, Koolohm Resistors are approved for much military and naval equipment, for which average resistors were inadequate.

Enjoy the unique advantages created by Koolohm's distinctive feature—the ceramic insulation of the wire *BEFORE* it is wound. See how this improvement makes Koolohms smaller, sturdier, better protected. See for yourself how accurate are Koolohms and how long they stay accurate.

KOOLOHM Non-Inductive Resistors

Ceramic insulated wire permits perfect interleaved Ayrton-Perry windings reducing inductance to practically negligible values, even at frequencies of the order of 60 mc. Distributed capacitance is very small.



SEND TODAY
FOR CATALOG!

Catalog and samples
free upon request.

SPRAGUE
SPECIALTIES COMPANY
(Resistor Div.) North Adams, Mass.

KOOLOHM Single-Layer Winding

Because Koolohm wire is ceramic insulated before it is wound, each turn can be wound tightly against the next. The insulation on the wire provides absolute protection against shorts and changed values. The ceramic insulation on Koolohm wire has a dielectric strength of 350 volts per mil at 400° C.

KOOLOHM Progressive Winding

Koolohm ceramic insulated wire can be wound in high density patterned windings giving the electric equivalent of many layers of winding without high potential gradients.

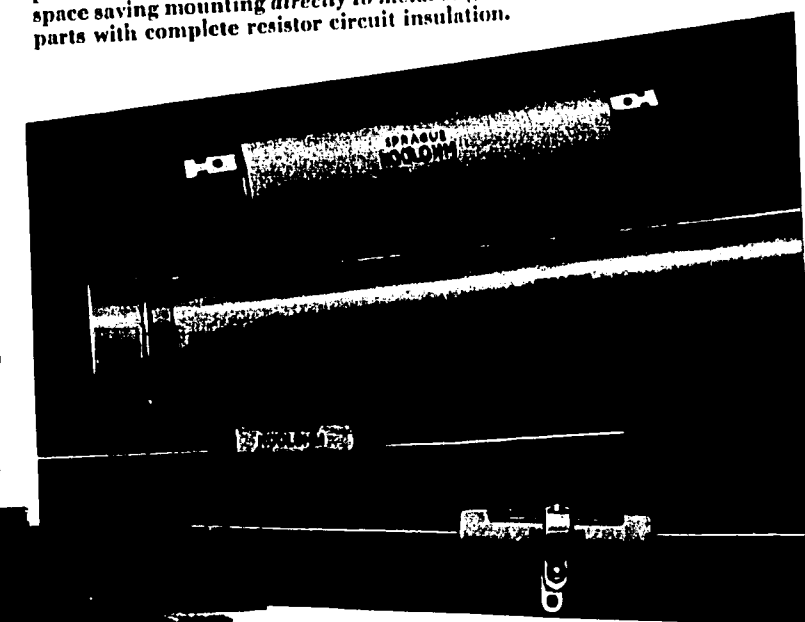
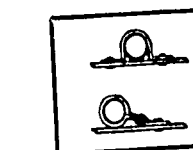
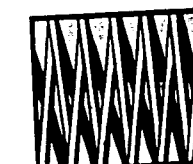
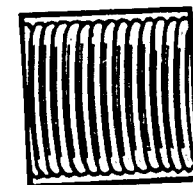
This permits much larger wire sizes with the resultant safety factor, and much higher resistance values in small space. For example, 7500 ohms of 2.5 mil wire, or 70,000 ohms of 1.5 mil wire in a fully rated 10 watt resistor only 15/32" x 1-27/32" long.

Section With Ceramic Insulation Removed

The ceramic insulation now used exclusively on Koolohm wire is heat-proof—is actually applied to the wire at 1000° C. It is so moisture-proof it can be boiled in water—provides heretofore impossible humidity protection.

KOOLOHM Unique Mounting Features

Although the wire is insulated before winding, Koolohms are doubly protected. Most types are encased in a sturdy outer ceramic shell that will not peel or chip and allows quicker, easier, time and space saving mounting directly to metal or grounded parts with complete resistor circuit insulation.



xxxiii

NEW SHURE BROADCAST DYNAMIC SUPER-CARDIOID

Decreases Pickup of
Random Noise

73%

Patented by
Shure Brothers

Model 556A for 35-50 ohms, Model 556B for
200-250 ohms, Model 556C high impedance,
—at only \$75.00 list.

The practical advantages of this new Super-Cardioid make it especially useful in both studio and remote broadcast service. That's why Broadcast Engineers are enthusiastic about it. The Super-Cardioid pick-up pattern, together with the Shure Uniphase single-unit moving-coil construction, eliminates undesired noises more easily—simplifies sound pick-up problems—makes it ideal for outdoor as well as indoor locations. Get all the facts—Send for Super-Cardioid Booklet No. 172.

30-Day Trial, Broadcast Engineers: Try the Super-Cardioid for 30 days in your station without obligation. Write us today.

SHURE BROTHERS
Designers and Manufacturers of
Microphones and Acoustic Devices
225 West Huron Street, Chicago, Illinois

SHURE

SHURE ENGINEERING
Many important advancements in Microphone design and performance are the result of Shure specialized engineering. Today, Shure Engineers devote their skill and their energy to the production of Microphones and Acoustic Devices for military, scientific and civilian defense needs in a determined effort to help win the war.

- ★ More unidirectional than the cardioid, yet has wide-angle front pick-up.
- ★ Decreases pick-up of reverberation energy and random noise 73%.
- ★ Improved wide-range frequency response—from 40 to 10,000 cycles.
- ★ Symmetrical axial polar pattern at all frequencies.
- ★ Highly immune to mechanical vibration and wind noises.

Product Index

Hewlett-Packard Co., 481 Page Mill Rd., Palo Alto, Calif.
Measurements Corp., Intervale Rd., Boonton, N.J. (U.H.F. Radio Noisemeter)

TRANSFORMERS—Audio

Acme Elec. & Mfg. Co., 44 Water St., Cuba, N.Y.
Kenyon Transformer Co., 840 Barry St., New York, N.Y.
New York Transformer Co., 51 W. 3rd St., New York, N.Y.
Standard Transformer Corp., 1500 N. Halsted St., Chicago, Ill.
Thordarson Elec. Mfg. Co., 500 W. Huron St., Chicago, Ill.
United Transformer Co., 150 Varick St., New York, N.Y.
Utah Radio Prods. Co., 842 Orleans St., Chicago, Ill.

TRANSFORMERS—Power

Acme Elec. & Mfg. Co., 44 Water St., Cuba, N.Y.
Kenyon Transformer Co., 840 Barry St., New York, N.Y.
New York Transformer Co., 51 W. 3rd St., New York, N.Y.
Sola Elec. Co., 2525 Clybourn Ave., Chicago, Ill.
Standard Transformer Corp., 1500 N. Halsted St., Chicago, Ill.
Thordarson Elec. Mfg. Co., 500 W. Huron St., Chicago, Ill.
United Transformer Co., 150 Varick St., New York, N.Y.
Utah Radio Prods. Co., 842 Orleans St., Chicago, Ill.

TRANSFORMERS—Voltage, Regulating

Acme Elec. & Mfg. Co., 44 Water St., Cuba, N.Y.
Sola Elec. Co., 2525 Clybourn Ave., Chicago, Ill. (Also special Transformers)
Standard Transformer Corp., 1500 N. Halsted St., Chicago, Ill.
Superior Elec. Co., 171 Harrison St., Bristol, Conn.
Thordarson Elec. Mfg. Co., 500 W. Huron St., Chicago, Ill.
United Transformer Co., 150 Varick St., New York, N.Y.

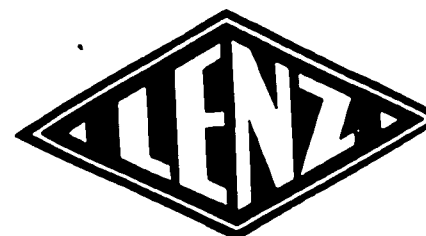
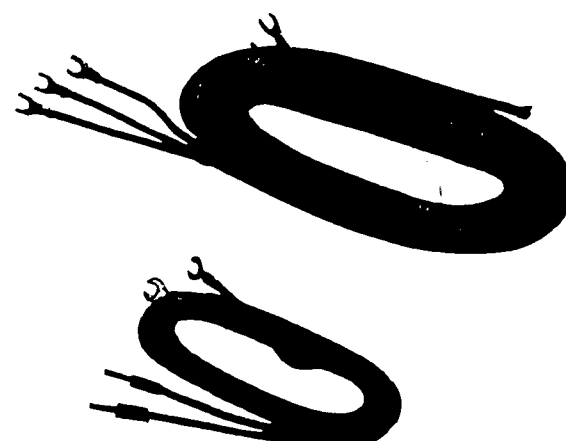
TRANSMITTERS—Broadcast

Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.

(Continued on page xxxvi)

1942 Yearbook of the I. R. E.

THE RIGHT WIRE-



• AEROLAC

Spiral wrapped acetate tape and cotton textile impregnated with flame resistant compound. Voltage breakdown 9000 V. at room temperature. Voltage breakdown after 24 hour water immersion 1000 V.

• LENCEL

High dielectric characteristics but small diameter, extremely desirable for use in cables where size must be kept to minimum.

• LENZAC

Two spiral wraps of cellophane plus cotton braid treated with flame resisting lacquer.

• AEROGLAS

Spiral wrapped acetate tape and double Fiberglas braid, lacquer impregnated. Offers high voltage breakdown and excellent flame resistant qualities.

• LENZ R. F. HOOK-UP WIRE

Patent No. 2120306 Especially recommended for R. F. instrument wiring. Offers high voltage breakdown, high insulation resistance and low power factor under adverse climatic conditions.

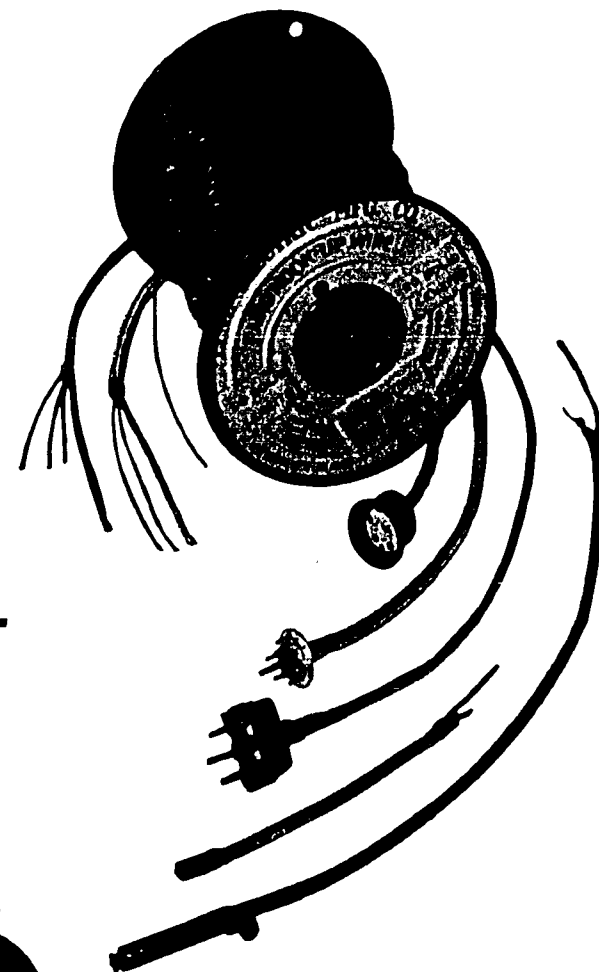
• LENZ SHIELDED WIRES & CABLES

Made to specifications and to suit a wide range of requirements.

LENZ ELECTRIC MANUFACTURING COMPANY
1751 N. Western Avenue, Chicago, Ill.
Electric Cords, Wires and Cables

ENJOYING ITS 36TH YEAR OF SUCCESSFUL BUSINESS

1942 Yearbook of the I. R. E.



The radio engineer today is faced with a greater responsibility than ever before. It is a responsibility that he should not face alone. In the selection of component parts for equipment now being built for our armed forces, he can share the responsibility with the manufacturer.

Take wire, for instance, any one of several different types of wire might do for a particular job, yet there is only one wire that is best for the purpose.

Who would be better suited to share the responsibility of selection than the engineers that developed the wire? They have lived with it, studied it, know exactly how it will perform under all conditions.

Lenz engineers know insulated wire—they are ready and eager to help solve any of your wire problems—and have a line of insulated wires and cables that will suit a wide variety of conditions.

Call in a Lenz wire specialist for consultation. The facilities of our Engineering Department are at your disposal.



A JOB OF BUILDING BRAINS ON A PRODUCTION LINE

The mass production of transformers for radio, television and other electronic application is virtually "building brains on a production line." We're proud of the work we've done in our country's all-out production effort—and we want to convert more of our facilities to this purpose. So if you've a transformer problem—we want to help. We offer manufacturers, of defense equipment especially, a complete organization to accept full responsibility for the engineering and production of standard or special transformers. Our three conveniently located plants (at Clyde and Cuba, N. Y.) are fully equipped with modern time-saving equipment and arranged for stream-line production. And remember, Acme's reputation for quality has been built on the policy of testing every transformer to specific limits of performance. If the transformer you need can be produced by adapting dies, tools, jigs, and fixtures from the hundreds in our stock—you can save months in tool production time alone.

For National War Effort

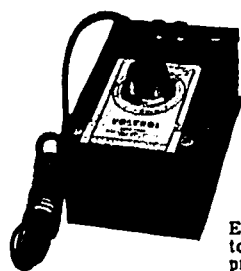
DO YOU USE



Audio Transformers
Interstage Transformers
Output Transformers
Push-Pull Input Transformers
Driver Transformers
Microphone Input Transformers
Filter Chokes
Swinging Chokes
Audio Reactors
Signalling Transformers
Plate Supply Transformers
Filament Transformers
Three Phase Power Transformers (up to 50 KVA)

Check this list of Acme products then send specifications, blue prints and outline of application. Acme transformer engineers are at your service to help solve your transformer problems.

HOW'S YOUR VOLTAGE CONTROL?



Every laboratory and most production lines of electronic devices need an adequate variable voltage tester. The Acme Voltrol provides all the features you want with stepless voltage range from 0 to 135 volts. Portable or panel types. Write for Bulletin 150.

THE ACME ELECTRIC & MFG. CO.
44 WATER ST. CUBA, N. Y.

Acme Electric
TRANSFORMERS

Product Index

TRANSMITTERS—F.M.

General Electric Co., Bridgeport, Conn.

TRANSMITTERS—Police

Communications Co., Inc., P.O. Box 91, Coral Gables, Fla.

General Electric Co., Bridgeport, Conn.

Harvey Radio Labs., Inc., 445 Concord Ave., Cambridge, Mass.

TRANSMITTERS—Miscellaneous

Bendix Aviation, Ltd., North Hollywood, Calif.

Communications Co., Inc., P.O. Box 91, Coral Gables, Fla.

Espey Mfg. Co., Inc., 305 E. 63rd St., New York, N.Y.

Hallicrafters Co., 2611 Indiana Ave., Chicago, Ill.

Harvey Radio Labs., Inc., 445 Concord Ave., Cambridge, Mass.

TUBES—Cathode-Ray

Allen B. Dumont Labs., Inc., 2 Main Ave., Passaic, N.J.

General Electric Co., Bridgeport, Conn.

Hygrade Sylvania Corp., 500 Fifth Ave., New York, N.Y.

RCA Mfg. Co., Inc., Camden, N.J.

TUBES—Photoelectric

Bradley Labs., Inc., 82 Meadow St., New Haven, Conn.

General Electric Co., Bridgeport, Conn.

RCA Mfg. Co., Inc., Camden, N.J.

TUBES—Receiving

General Electric Co., Bridgeport, Conn.

Hygrade Sylvania Corp., 500 Fifth Ave., New York, N.Y.

Hytron Corp., 76 Lafayette St., Salem, Mass.

RCA Mfg. Co., Inc., Camden, N.J.

TUBES—Rectifier

Eitel-McCullough, Inc., 798 San Mateo Ave., San Bruno, Calif.

General Electric Co., Bridgeport, Conn.

Heintz & Kaufman, Ltd., South San Francisco, Calif.

Hygrade Sylvania Corp., 500 Fifth Ave., New York, N.Y.

RCA Mfg. Co., Inc., Camden, N.J.

Taylor Tubes, Inc., 2341 Wabansia Ave., Chicago, Ill.

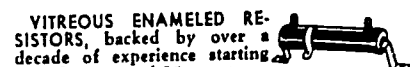
(Continued on page xxxviii)



For original equipment or replacement requirements—write for complete information about the following, or other Utah Radio Products—



MIDGET MOTORS. Utah standard shaded pole reversible motor with various gear trains, clutch action for positive stop of driven load and thermostatic protection is used for A.C. work, where intermittent duty torque is required up to 50 ounce inches



VITREOUS ENAMELED RESISTORS. Backed by over a decade of experience starting with first 10- and 20-watt types made by Carter Radio Company, progressively improved by Utah engineers. Minimum of two separately fired coats of vitreous enamel forms hard, glassy surface—adhering permanently to porcelain tube core, resistance wire and terminals. Resistors 5- to 200-watts available as Fixed Tapped or Adjustable. Numerous types of mounting hardware available.



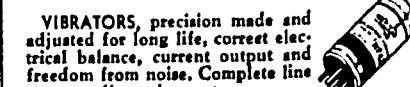
WIREWOUND CONTROLS. Rheostats, Potentiometers, Attenuators. High quality resistant wire evenly wound on a substantial core is clamped tightly to control housing, resulting in rugged and dependable variable resistors. Five sizes—3, 4, 9, 15, 25 watts in Rheostats and Potentiometers; resistant elements can be wound linear or to special resistant-curve tapers.



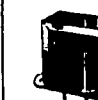
JACKS AND PLUGS combine compact size, highest quality and economical price; unique, patented design provides plug with smallest possible extension from panel; fits all standard jacks. Phone plugs, 2- and 3-conductor types designed to meet special needs in application, size or shape.



SPEAKERS by Utah for practically every radio receiver and sound equipment need. Balanced, rugged line, adequate power handling capacity and other built-in characteristics to meet standard and special requirements.



VIBRATORS, precision made and adjusted for long life, correct electrical balance, current output and freedom from noise. Complete line to meet all requirements.

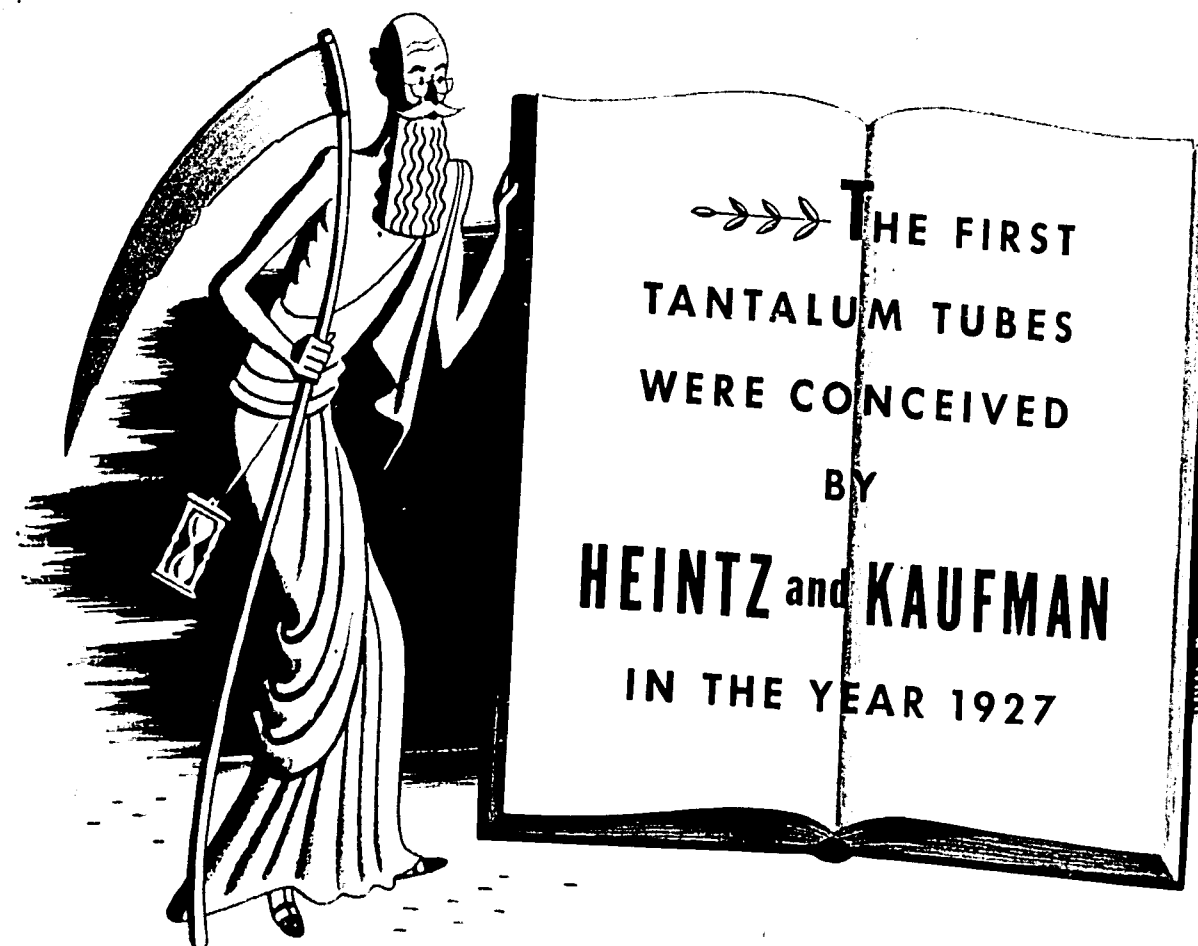


TRANSFORMERS, have non-corrosive, protective film of cellulose acetate which provides absolute insulation—prevents breaking down even under high humidity and severe atmospheric conditions—fully guaranteed.

Advanced engineering and precision manufacturing have won universal user preference. Write for full details.

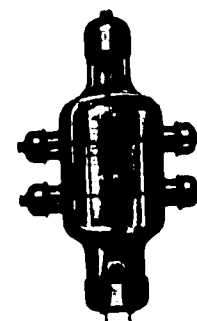
UTAH RADIO PRODUCTS COMPANY

842 Orleans Street Chicago Illinois
In Canada 560 King Street West Toronto
Cable Address: Utaradio Chicago



We are happy to have made this contribution to the electronic art

14 YEARS OF PROGRESS



TYPE 255
The first tantalum tube

TYPE 854
A new tantalum tube for modern UHF applications



Today tantalum tubes are doing their part in the National Defense program. It is natural that GAMMATRONS play an important role, that designers should turn to the pioneer in the field for new tantalum tube developments. It is natural that when tantalum tubes are considered users all say—

GAMMATRONS of course!

xxxvii

A SELF-LOCKING NUT
for every
IMPORTANT FASTENING



STANDARD-HEIGHT HEX NUTS
For all classes of bolted fastenings



ANCHOR NUTS
For riveting to structures



THIN HEX NUTS
For shear bolts with light tensile load



INSTRUMENT-MOUNTING NUTS
For control panels

TEST ELASTIC STOP NUTS on your products and equipment. Sample nuts will be furnished without cost or obligation.

ELASTIC STOP NUTS are made in more than 2500 combinations of type, size, material, finish, and thread system... to provide safe and economical bolted fastenings for any mechanical or electrical application.

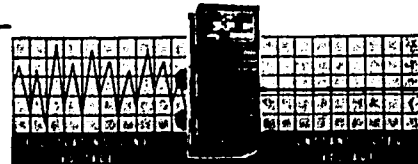
Each nut embodies the Elastic Stop resilient non-metallic self-locking collar that assures a tight hold under all conditions of vibration, shock, and prolonged hard service.

» Catalog on request

ELASTIC STOP NUT CORPORATION • 2379 VAUXHALL ROAD • UNION, NEW JERSEY

Elastic Stop SELF-LOCKING
NUTS

CONSTANT VOLTAGE
is the answer to the precision demands of
SCIENCE and INDUSTRY for DEFENSE



Every COMMUNICATIONS system—every electrical INSTRUMENT employed in the production of materials of war needs CONSTANT VOLTAGE protection against line surges and fluctuating voltage levels caused by overloaded power lines. Sola CONSTANT VOLTAGE TRANSFORMERS will deliver a perfectly stabilized output voltage, even though line voltages vary as much as 30%. No moving parts. Instantaneous in action. Self-protecting against overload or short circuit.

Ask for Bulletin

SOLA ELECTRIC COMPANY

Constant Voltage **TRANSFORMERS**

1025 CANNON AVE. CHICAGO, ILL.

Product Index

TUBES—Special Purpose

Amperex Electronics Prods., Inc., 79 Washington St., Brooklyn, N.Y.
General Electric Co., Bridgeport, Conn.
Hygrade Sylvania Corp., 500 Fifth Ave., New York, N.Y. (Voltage Regulating)
RCA Mfg. Co., Inc., Camden, N.J.
Taylor Tubes, Inc., 2341 Wabansia Ave., Chicago, Ill.

TUBES—Transmitting

Amperex Electronic Prods., Inc., 79 Washington St., Brooklyn, N.Y. (Water and Air Cooled)
Eitel-McCullough, Inc., 798 San Mateo Ave., San Bruno, Calif.
General Electric Co., Bridgeport, Conn.
Heintz & Kaufman, Ltd., South San Francisco, Calif. (Radiation-Cooled)
Hygrade Sylvania Corp., 500 Fifth Ave., New York, N.Y.
Hytron Corp., 76 Lafayette St., Salem, Mass.
RCA Mfg. Co., Inc., Camden, N.J.
Taylor Tubes, Inc., 2341 Wabansia Ave., Chicago, Ill.

TUBES—Dealer

Terminal Radio Corp., 85 Cortlandt St., New York, N.Y.

TUNING FORKS

American Instrument Co., 8010-8020 Georgia Ave., Silver Spring, Md.

VIBRATORS

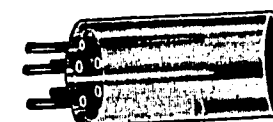
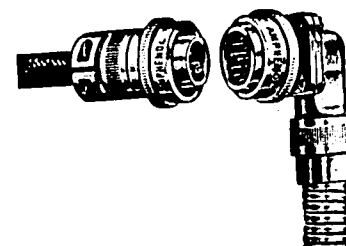
American Television & Radio Co., 300 E. 4th St., St. Paul, Minn. (for Supply Systems)
P. R. Mallory & Co., Inc., 3029 E. Washington St., Indianapolis, Ind.
Utah Radio Prods. Co., 842 Orleans St., Chicago, Ill.

WIRE—Miscellaneous

Sigmund Cohn, 44 Gold St., New York, N.Y. (Wire and Ribbon for Vacuum Tubes)
Copperweld Steel Co., Glassport, Pa. (Copper with Steel Core)
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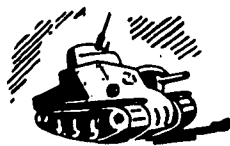
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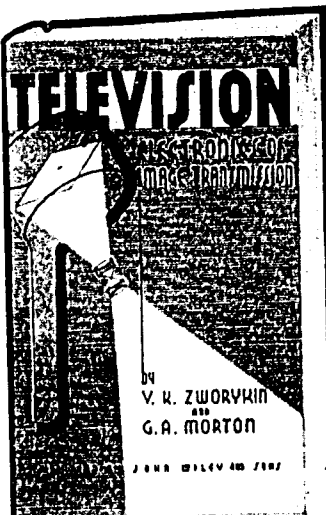
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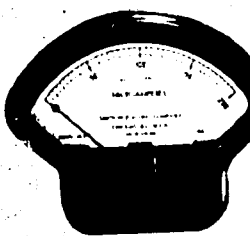
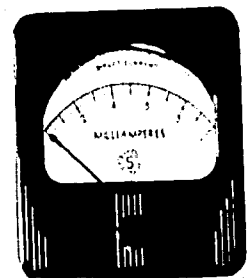
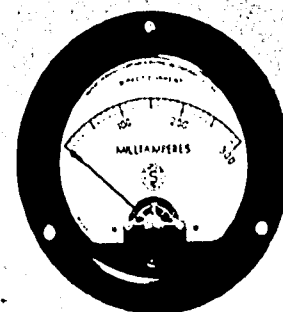
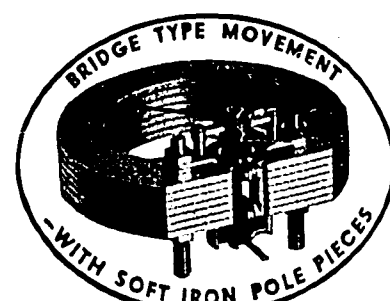
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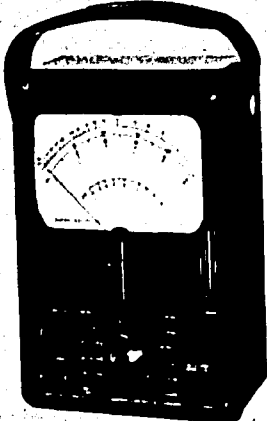
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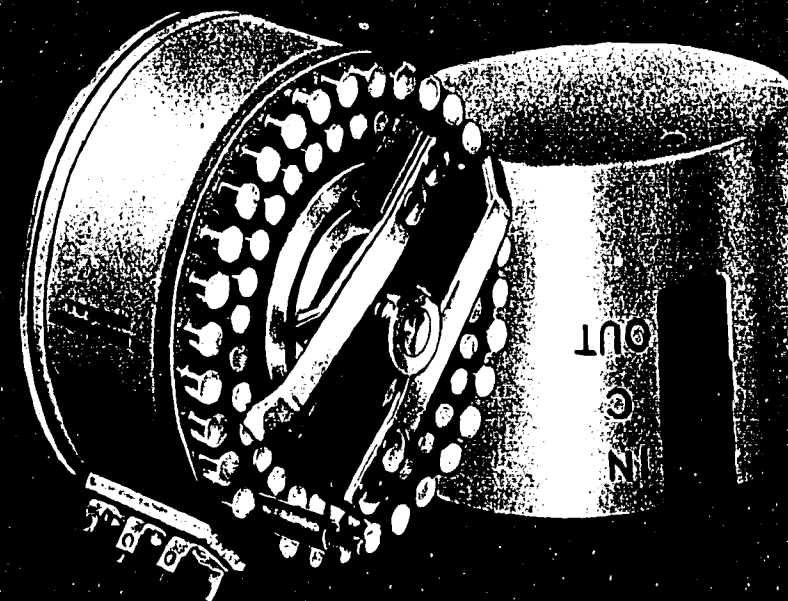
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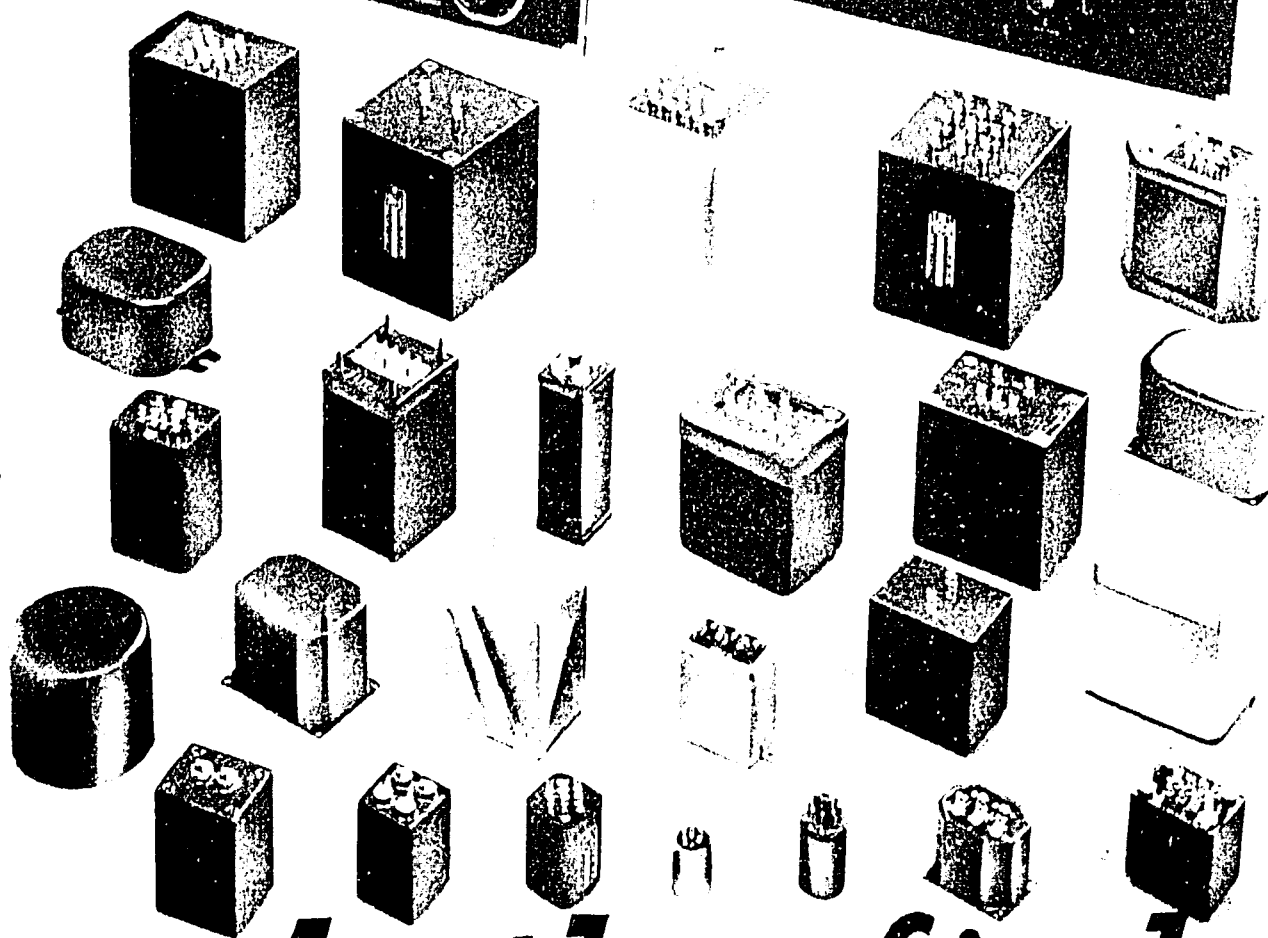
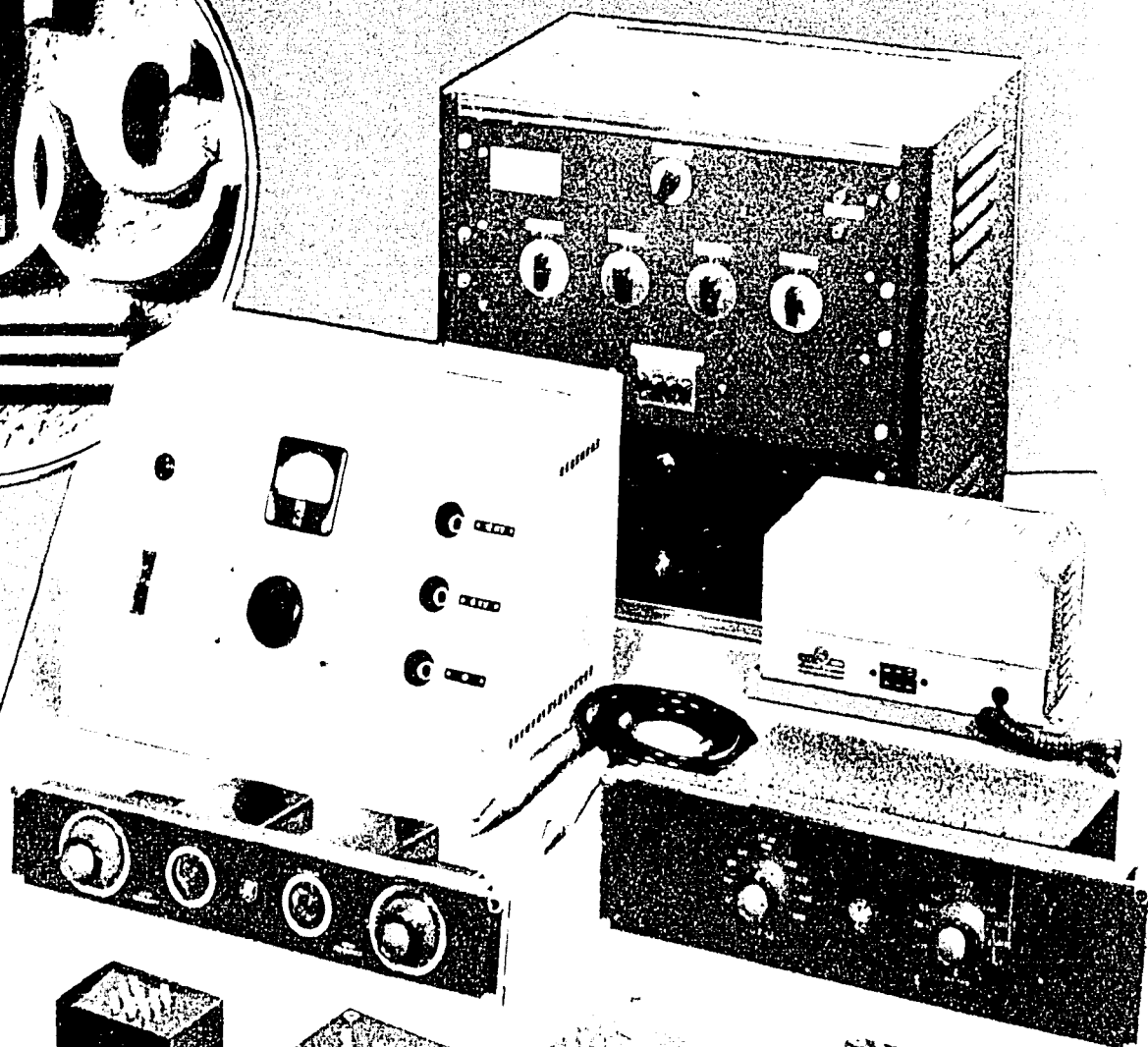
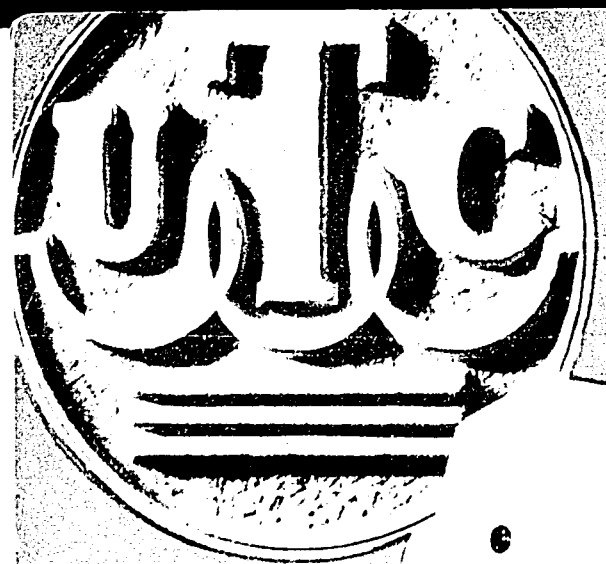
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