

The
American
Ceramic
Society



February 15, 1993

I hereby certify that the attached copies of **American Ceramic Society Bulletin, Volume 32, 1953**, are true and accurate copies, which are maintained in the normal course of business at the American Ceramic Society, 735 Ceramic Place, Westerville, Ohio 43081.

Christine Schnitzer

Christine Schnitzer
Product Manager
Ceramic Information Center

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735 Ceramic Place
Westerville, Ohio 43081-8720
614 • 890 • 4700
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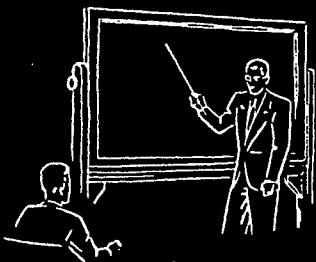
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AMERICAN Ceramic SOCIETY Bulletin

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Institute of Ceramic Engineers

Member Changes and Additions

FOLLOWING members have applied for and been elected in the last 12 months by the Institute of Ceramic Engineers for the grade indicated.

Advanced to Member Grade from Associate

ELHAMMER, LOUIS H., ceramic engineer, Ohmite Mfg. Co., Chicago, Ill.
 BURN, A. REIF, executive vice-president, Ram, Inc., Columbus, Ohio.
 E, MARTIN S., general manager, Lee Clay Products Co., Clearfield, Ky.
 ROBERT W., ceramist, Buffalo Pottery, Inc., Buffalo, N. Y.
 MAN, ROBERT L., plant superintendent, Chicago Brick Co., Chicago, Ill.
 DALL, EUGENE R., chief engineer, The Mullite Refractories Co., Shelton, Conn.
 H, EMERSON W., ceramic engineer, R. T. Vanderbilt Co., Inc., East Norwalk, Conn.
 JOHN F., vice-president, Oretraction Inc., Pittsburgh, Pa.
 MAN, EDWARD E., general manager, B. F. Wagner & Co., Pasadena, Calif.
 E, JUDE M., JR., acting merchandise manager, U. S. Pottery Co., Chicago, Ill.
 S, GORDON E., chief engineer, Glen-Gery Shale Brick Co., Wyomissing, Pa.
 T, HAROLD D., district manager, Titanium Alloy Mfg. Co., National Lead Co., New York, N. Y.
 MOND, JOSEPH C., ceramic engineer, National Bureau of Standards, Washington, D. C.
 RTS, JOHN T., supervising engineer, Crane Co., Chicago, Ill.
 ROLLAND R., chief ceramic engineer, Globe Union Inc., Milwaukee, Wis.
 JOHN A., assistant supervisor, Battelle Memorial Institute, Columbus, Ohio.
 S, STEPHEN T., assistant division manager, North American Refractories Co., Mount Union, Pa.
 ENS, ROBERT P., refractories engineer, Wellsville Fire Brick Co., Wellsville, Mo.
 NAUER, HANS N., vice-president research, American Lava Corp., Chattanooga, Tenn.
 G, WILLARD G., general manager, W. A. Case & Son Co., Robinson, Ill.
 Advanced to Member Grade from Junior
 EY, FLOYD, ceramic engineer, A. O. Smith Corp., Kankakee, Ill.
 ER, C. EDWARD, JR., ceramic research, Jeffery-Dewitt Co., Lime Material Co., Kenova, W. Va.
 J, JOSEPH P., assistant production superintendent, Levi Mfg. Co., Brooklyn, N. Y.
 ER, WARD L., ceramic development engineer, Libbey Owens & Glass Co., Rossford, Ohio.
 RALPH, research engineer, E. J. Lavino & Co., Norristown, Pa.
 T, PHILLIP, executive vice-president, The Claycraft Co., Columbus, Ohio.

New Members

Member Grade

BOLLINGER, ROBERT H., technical sales & service, Georgia Kaolin Co., Elizabeth, N. J.
 CURTIS, CARL E., senior metallurgist, Carbide & Carbon Chem. Corp., Oak Ridge, Tenn.
 DUCKWORTH, WINSTON H., assistant supervisor, ceramic technology, Battelle Memorial Institute, Columbus, Ohio.
 FLEMING, CHARLES A., ceramic engineer, Ingersoll Products Div., Borg-Warner Corp., Chicago, Ill.
 GAUTSCH, MURRAY C., plant superintendent, Metal & Thermit Corp., South San Francisco, Calif.
 GLAZE, FRANCIS W., assistant chief, glass section, National Bureau of Standards, Washington, D. C.
 HOWE, ELROY E., director of research, Chicago Vitreous Enamel Product Co., Cicero, Ill.
 MCCOLLOM, PERRY C., assistant general manager, American Refractories & Crucible Corp., North Haven, Conn.
 PERKINS, WALTER W., chief ceramic engineer, United States Stoneware Co., Akron, Ohio.
 PLANKENHORN, WILLIAM J., research associate professor, University of Illinois, Urbana, Ill.
 RHODES, FRASER B., chief ceramist, John Douglas Co., Cincinnati, Ohio.
 SAULS, JOHN B., manager, The Funkhouser Co., Blue Ridge Summit, Pa.
 SPEIL, SIDNEY, research engineer, Johns-Manville Corp., Manville, N. J.
 STROD, A. J., president, Uranium Div., The Vitro Mfg. Co., Pittsburgh, Pa.
 ZINK, GEORGE H., assistant manager, Glass-Coating Materials Division, A. O. Smith Corp., Milwaukee, Wis.

Junior Member Grade

ABERNETHY, LONNIE L., JR., research fellow, Engineering Expt. Sta., Columbus, Ohio.
 CARLSON, WILLIAM G., ceramic research engineer, Harbison-Walker Refractories Co., Pittsburgh, Pa.
 COOKE, DAVID C., ceramic engineer, Universal-Rundle Corp., Camden, N. J.
 CROSBY, DONALD P., ceramic engineer, Harbison-Walker Refractories Co., Fulton, Mo.
 CURRAN, ROBERT, sales engineer, Plibrico Jointless Firebrick Co., New York, N. Y.
 DE PROSSE, VICTOR A., ceramic engineer, National Bureau of Standards, Washington, D. C.
 DIAZ, JOSE J., plant superintendent, Fabrica Nacional de Loza de Penco, S.A., Penco, Chile, S. A.
 DUNGAN, ROBERT H., research assistant, University of Illinois, Urbana, Ill.
 HERKO, EDWARD, head of Glass Plant Laboratory, Bausch & Lomb Optical Co., Rochester, N. Y.
 HESSINGER, PHILIP S., ceramic engineer, Wright-Patterson Air Force Base, Dayton, Ohio.
 JACOBSON, EDWIN, JR., ceramic engineer, Corning Glass Works, Corning, N. Y.
 KALMAN, FRANK R., process & quality control engineer, Pemco Corp., Baltimore, Md.

KARNES, A.
 Dover, C.
 KELLY, G.
 Inc., St.
 KNUDSEN,
 Bureau
 LITTLE, J.
 Co., Mil
 MONTGOM
 Ford Gl
 NOBLE, R.
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 PHOENIX,
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 RICCI, ED
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 SHEETS, H.
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JARNES, WALTER E., foreman, Robinson Clay Prod. Co., Dover, Ohio.
 KELLY, GEORGE D., product engineer, Sylvania Elec. Prod. Inc., St. Marys, Pa.
 KUTNER, FRIEDRICH P., ceramic research engineer, Nat. B. of Standards, Washington, D. C.
 LITTLE, JACK A., assistant ceramic engineer, Allen-Bradley Co., Milwaukee, Wis.
 MONTGOMERY, ELDWIN C., glass technologist, Libbey-Owens-Ford Glass Co., Toledo, Ohio.
 OHLE, RICHARD C., ceramic engineer, The Claycraft Co., Columbus, Ohio.
 ROENIX, RICHARD C., assistant instructor in ceramic engineering, Rutgers University, New Brunswick, N. J.
 RICCI, EDWARD M., student in ceramic engineering, The Pennsylvania State College, State College, Pa.
 REETS, HERBERT D., JR., research engineer, Electro Refractories & Abrasives Corp., Buffalo, N. Y.
 REXMAN, EDWIN J., research associate, Alfred University, Alfred, N. Y.
 SULLIVAN, PAUL A., production development engineer, Bausch & Lomb Optical Co., Rochester, N. Y.
 TAYLOR, CHARLES H., JR., sales engineer, Bay State Abrasive Products Co., Westboro, Mass.
 TOLBER, HERBERT R., JR., ceramic engineer, Crane Co., West Chicago, Ill.
 UKOVICH, MILAN, JR., research associate, The Ohio State University Research Foundation, Columbus, Ohio.
 WOOD, RUSSELL K., ceramic engineer, Wallace China Co., Ltd., Huntington Park, Calif.

Man and Machines

A series of articles on the human factor in industry was published during 1952 in *Die Ziegelindustrie*, Wiesbaden, Germany. F. Walter Garve reports. Entitled "Der Mensch im Betriebe," the series by J. W. Ludowici is available in reprint form from the publisher. Going beyond psychology, the articles are a thorough analysis of man in his role as an industrial worker and his proper evaluation for selection and placement.

Another article by Dr. Ludowici, "Beziehung der Keramik zu dem modernen Bauen" (Relationship of ceramics to modern building), is a review of ceramics from the characteristics of the raw materials to the finished wall. Printed in *Keramische Zeitschrift*, No. 6, 1952, the report was given at the 1952 International Ceramic Congress in Paris. According to Mr. Garve, it emphasizes testing methods for walls and roofs instead of single brick and tile in the twenty illustrations and the chapters: Mineral Structure, Machine Structure, Drying, Firing, Quality, Size, Inter-Relationship of Building Materials, Transportation and Erection.

Porcelain Sign Says "Westinghouse"

One of the largest all-porcelain signs ever built has recently been placed over Westinghouse Electric Corp.'s East Pittsburgh works. "Westinghouse," the new zeon-tube landmark, succeeds the old "Westinghouse Electric" sign which finally gave way to the rust and corrosion of 23 years of service.

Standing 20 ft. high and spanning 160 ft., the sign uses 2233 ft. of zeon tubing to spell out "Westinghouse" in striking orange-yellow letters at night. By day the letters are white against a background of blue. The two-sided, back-to-back construction makes possible viewing from either of two directions. It can be seen from the air for more than 20 miles.

Industry Uses Porcelain Enamel Coatings

The use of porcelain enamel for jet engine parts has suggested several industrial applications. Deflecting cones in high heat furnaces and pipes for degassing operations are particularly successful examples of porcelain enamel coatings.

Maintenance and longer operating life are obtained because corrosive gases or liquids are excluded from the base metal. While the coating of jet engine parts has been the most spectacular use of porcelain enamel, the high heat resistance of certain types of porcelain enamel makes their application valuable under many high temperature and corrosive conditions.

What's New in Ceramic Abstracts

by RALPH ROSE

FEBRUARY is bonus month for patent literature! Nearly 120 patent abstracts are presented in this month's issue of *Ceramic Abstracts*. Although some patents are discussed in the following paragraphs, careful perusal of the various sections should be rewarding.

All ceramists probably will be interested in "Problems of Clay and Laterite Genesis—Symposium," published by the American Institute of Mining and Metallurgical Engineers (p. 32j). Contributions by noted authors cover the subject of clays and related hydrated materials from genesis through prospecting techniques to interpretation of X-ray and other experimental data. Also of general interest is Hermann Harkort's paper, "Determination of Particle Size by Elutriation Analysis, II, III" (p. 31c). Although Harkort discusses the more scientific aspects of this problem, he also presents practical abbreviated methods useful in plant control.

Engineers working in plants where the grinding of ceramic products is an omnipresent problem will want to read what Hans Krug has to say about the subject. Krug, in his "Grinding Tools and Machines in the Ceramic Industry" (p. 19i), discusses grinding wheels and grinding machines and shows wherein the grinding of ceramics differs from the grinding of metals.

W. Kerstan, in his "Ceramic Products Seen Under the Microscope" (p. 30k), describes glaze-body relations as observed in thin section. The discussion of his observations will appeal to technical personnel in the field of whiteware. Another interesting abstract in a highly specialized part of the whiteware field is that of U.S. Patent No. 2,618,579 (p. 29d). This patent describes a method of cementing two ceramic transducers of the same composition together so that the resulting composite has the same characteristics as a single unit.

The development of better refractories has been "pressured," among other things, by the constant trend toward higher operating temperatures in many industrial processes. This development, as applied to magnesia refractories, is reflected in U.S. Patent No. 2,603,555 (p. 26b) which outlines a method of producing magnesia containing less than 2% lime. Refractory engineers in steel and copper plants will be interested in U.S. Patent No. 2,606,017 (p. 28a) which claims methods of improving the life of furnaces constructed of basic brick.

If the drying of extruded clay pipe is one of your problems, you will want to read U.S. Patent No. 2,612,706 (p. 24f), which describes a mechanized automatic conveyor-drier capable of drying pipe with a minimum of warpage.

Boris Daragan, in "Annealing of Flat Glass" (p. 21i), covers a very important subject in the production of glass. He discusses the mechanical and structural concepts of the annealing process and from laboratory data draws conclusions of how the various factors involved affect the annealing.

Enamel specialists will want to read "Investigation of Antimony Oxide as an Opacifier for Porcelain Enamels and Glass," by A. E. Pavlish and L. S. O'Bannon (p. 21d). The authors present information on the effects of selected oxides on the opacity of a porcelain enamel-like glass containing about 20% antimony oxide.

A paper of particular interest to cement technologists, because of the subject, and of general interest to all ceramists, because of the instrument and method, is "High Temperature X-ray Photographs of Calcium Silicates and Cement Clinker" by G. Trömel and H. Möller (p. 20j). Trömel and Möller describe work done at temperatures up to 1700°C. which gives an insight into the formation of solid solutions at high temperatures and the changes that occur during cooling. Successful analytical and identifying techniques of this type for use at elevated temperatures can add much to the fundamental knowledge of ceramic reactions.

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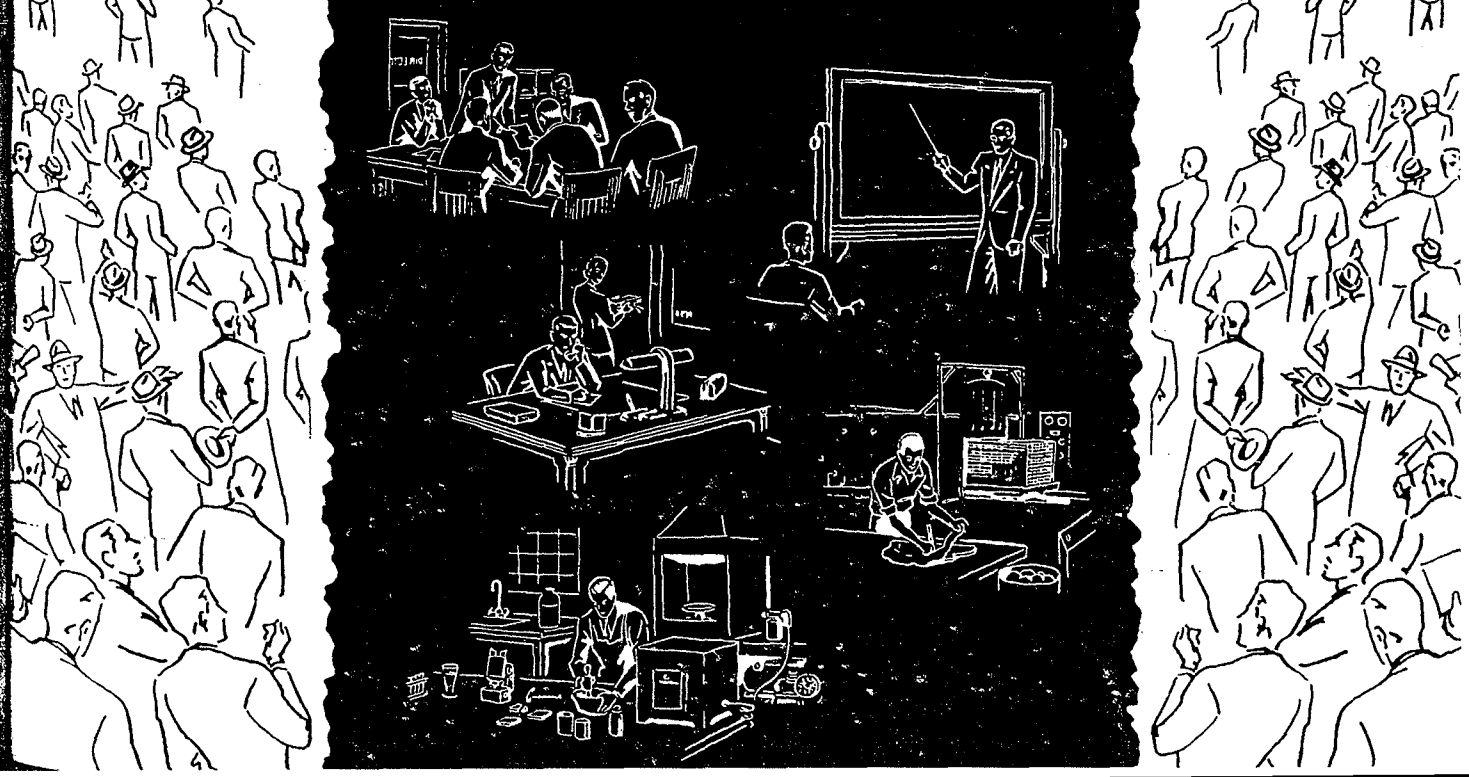
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AMERICAN Ceramic SOCIETY Bulletin

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American Ceramic Society Membership Roster

This Roster of paid Members is published for the use of the Members of The American Ceramic Society. The list is alphabetical, with names of Corporation Members in bold-face type and their voting representatives following in parentheses. An asterisk (*) follows the name of each Society Fellow, and a dagger (†) follows the name of each member of the National Institute of Ceramic Engineers. Junior and Student Members are indicated by (J) and (S), respectively. Life and Honorary Members are also indicated parenthetically after the names.

A separate Roster of the National Institute of Ceramic Engineers, showing grades of membership, appears at the conclusion of this Roster.

New Members and other changes received too late to be included are listed in the Addenda at the end of this Roster.

A

Abbey, R. G., General Refractories Co., 1520 Locust St., Philadelphia 2, Pa.
 Abbott, Gordon H., Koppel Engineering Ltd., Box 77 Langlaagte, TVL., Union of South Africa
 Abe, Tosio, 1001, Kami-ikegami-cho, Ota-ku, Tokyo, Japan
 Abernethy, Lonnie L.† (S), Engr. Expt. Sta., Ohio State University, Columbus 10, Ohio
 Abernethy, Mrs. Margaret J. (S), Engr. Expt. Sta., Ohio State University, Columbus 10, Ohio
 Abingdon Potteries, Inc. (J. M. Lewis), Abingdon, Ill.
 Abramson, Isaac, Av. Copacabana, 959-Apto. 902, Rio de Janeiro, Brazil
 Abrille, A. Villa, San Miguel Brewery Glass Factory, 132 Aviles, Manila, Philippines
 Accountius, Oliver E., Battelle Memorial Institute, 505 King Ave., Columbus 1, Ohio
 Achuff, Charles E., 839 Ballas Rd., Kirkwood 22, Mo.
 Ackerson, C. H., Washington Porcelain Co., Willow St., Washington, N. J.
 A C Spark Plug Div., General Motors Corp. (Karl Schwartzwalder), Flint 2, Mich.
 Adams, Edward M., Cloverport, Ky.
 Adams, Mrs. Le Roy, Adams Achers Ceramics, R.R. 2, Vashon, Wash.
 Adams, Milton, 129 W. Streicher St., Toledo 8, Ohio
 Adams, P. Bruce, Corning Glass Works, Research and Development, Corning, N. Y.
 Adams, Robert R., Battelle Memorial Institut Fur Deutschland, Wiesbadenerstr., Frankfurt/Main, W-13 Germany
 Adams, S. L., Joseph E. Seagram & Sons, Inc., Seventh St. Rd., Louisville, Ky.
 Adamston Flat Glass Co., Box 631, Clarksburg, W. Va.
 Adcock, Albert S.,† American Radiator & Standard Sanitary Corp., 6920 Franklin Ave., New Orleans 22, La.
 Adcock, Lawrence W., Jr., 459 W. Washington St., Frankfort, Ind.
 Adderley, James R., 42 Church St., Brierley Hill, S. Stafford, England
 Aderhold, George H., Saxonburg Ceramics, Box 100, Saxonburg, Pa.
 Afferbach, Harry, R.R. 4, Frankfort, Ind.
 Agashe, R. N. (Bricks), Tata Iron & Steel Co. Ltd., Box Kumardhubi E-1, Dt. Manbhum, India
 Agnew, G. D., Universal Potteries, Inc., Cambridge, Ohio
 Agron, Albert M., Republic Steel Corp., 6100 Truscon, Cleveland, Ohio
 Ahearn, V. P., National Industrial Sand Assn., 1325 E St., N. W., Washington 4, D. C.
 Ahl, George W., Jr., Summit Mining Corp., Bashore Bldg., Carlisle, Pa.
 Akam, J. W., National Fire Proofing Co. of Canada Ltd., Aldershot, Ont., Canada
 Akmoran, Miss Huban (S), Box 616, Alfred, N. Y.
 Akron Porcelain Co. (F. W. Butler), Akron 14, Ohio
 Albers-Schoenberg, Ernst, Redfield Village, Apt. 17 A 4, Metuchen, N. J.
 Albert, Joseph, Albert Pottery, Chamblee, Ga.
 Albertalli, Stephen L. (J), Corning Glass Works, Harrodsburg, Ky.
 Alberty, D. F.,† 1433 23rd St. N. W., Canton 9, Ohio
 Albrecht, Ernst (S), Keramische Fachschule, Hoehr-Grenzhausen/b. Koblenz, Germany
 Alcock, Ronald H., "Ferrum" Espana 402-600, Avellaneda, Buenos Aires, Argentina
 Alden, Charles E., 2242 W. Third St., Sedalia, Mo.
 Alenius, Carl Axel, 18 Slotsgatan, Abo, Finland
 Alexander, A. E., Tiffany & Co., Fifth Ave. & 57th St., New York 22, N. Y.
 Alexander, John A., 1909 20th St., Parkersburg, W. Va.
 Alexander, John B., Southwestern Portland Cement Co., 1034 Wilshire Blvd., Los Angeles 17, Calif.

Alexander, John M. (J), 2376 Hamilton Ave., North Bellmore, N. Y.
 Alexander, R. B., National Tile & Mfg. Co., 1200 E. 26th St., Anderson, Ind.
 Alford, D. C., Mullite Refractories Co., Shelton, Conn.
 Algemeene Vereniging voor de Nederlandse, Aardewerk en Glas Industrie, c/o Mr. H. G. P. Kolfshoten, Haagweg 139, Rijswijk, Netherlands
 Allen, Alfred W., Ceramic Engr. Dept., Univ. of Illinois, Urbana, Ill.
 Allen, Ben, Corning Glass Works, Corning, N. Y.
 Allen, Ralph, 1234 Paddock Hills Ave., Cincinnati 29, Ohio
 Allen, Richard L., † E. J. Lavino & Co., Box 365, Newark, Calif.
 Allen, Robert G., Robert G. Allen Co., Box 110, Mechanicville, N. Y.
 Allen, Walter C., U. S. Steel Corp. Research Lab., Lincoln Highway, Kearny, N. J.
 Allen, Warren W., Jr., Hydraulic-Press Brick Co., South Park, Ohio
 Alliance Ware, Ltd. (R. E. Strain), Box 550, Vancouver, B. C., Canada
 Alliegro, Richard A. (J), Box 1011 Alfred, N. Y.
 Allison, Adrian G., Battelle Memorial Institute, 505 King Ave., Columbus 1, Ohio
 Allison, Leroy W., Ceramic Publishing Co., Inc., Box 9073, North Station, Newark, N. J.
 Alt, Leslie R.,† 547 Simon St., Hayward, Calif.
 Alton Brick Co. (Eben Rodgers, Jr.), Alton, Ill.
 Aluminum Co. of America (A. R. Pickett), 1501 Alcoa Bldg., Pittsburgh 19, Pa.
 Amberg, Charles R.,† Alfred University Research Lab., R. R. 1, Box 212B, Kingston, N. Y.
 Ambrose, Mary S., 582 Neff Rd., Grosse Point 30, Mich.
 Ambrosone, Joseph P., 170 Reynolds Ave., Corning, N. Y.
 American Clay Forming Co. (Dan McPhail), Tiffin, Ohio
 American Colloid Co. (Paul Bechtner), Merchandise Mart Plaza, Rm.-813, Chicago 54, Ill.
 American Encaustic Tiling Co., Inc. (Robert A. Williams, Jr.), Ninth St. & Kenilworth Ave., Lansdale, Pa.
 American Gas Assn. (C. G. Segeler), 420 Lexington Ave., New York 17, N. Y.
 American Lava Corp. (John Kruesi), Chattanooga 5, Tenn.
 American Nepheline, Ltd. (H. R. Deeth), Lakefield, Ont., Canada
 American Optical Co. (A. H. Bennett), Research Center, Southbridge, Mass.
 American Porcelain Enamel Co. (Robert Long), 1285 Keating Ave., Muskegon 36, Mich.
 American Potash & Chemical Corp. (R. M. Curts), 122 E. 42nd St., New York 17, N. Y.
 American Radiator & Standard Sanitary Corp. (James S. Goodman), 834 E. Broadway, Louisville 4, Ky.
 American Smelting & Refining Co. (L. G. Matthews), 120 Broadway, New York 5, N. Y.
 American Window Glass Co. (A. S. Crandon), 9 W. Park Way, Pittsburgh 12, Pa.
 Ames, R. N.,† 10352 S. Wood St., Chicago 43, Ill.
 Ames, Robert G., 69 Jefferson Ave., Cresskill, N. J.
 Amin, R. B., Alembic Chemical Works Co. Ltd., Baroda, India
 Ammerman, J. H.,† 202 Scribner, DuBois, Pa.
 Ammon, Millard G., Ferro Corp., 4150 E. 56th St., Cleveland, Ohio
 Amsler Morton Corp. (P. M. Offill), Chamber of Commerce Bldg., Pittsburgh 19, Pa.
 Anchor Hocking Glass Corp. (W. V. Fisher), Lancaster, Ohio
 Ancizar, Jorge Sordo, Laboratorio Quimico Nacional, Ministerio de Minas y Petroleos, Apartado 2577, Bogota, Colombia
 Anderson, Harry L.,† Republic Steel Corp., Warren, Ohio
 Anderson, Herbert H., 401 N. Main St., Port Allegany, Pa.
 Anderson, Orson L., Bell Telephone Labs., Murray Hill, N. J.

Anderson, R. E., Robertson Mfg. Co., Box 848, Trenton 5, N. J.
 Anderson, Rupert C., Valley View R. R. 2, New Brighton, Pa.
 Anderson, Scott, The Anderson Physical Laboratory, 609 S. Sixth St., Champaign, Ill.
 Anderson, William B., Titanium Pigment Corp., 111 Broadway, New York, N. Y.
 Andreassen, A. H. M. (Honorary), Oster Voldgade 10, Copenhagen K, Denmark
 Andrews, Andrew I.,* Ceramics Bldg., University of Illinois, Urbana, Ill.
 Andrews, Ray, B. F. Drakenfeld & Co., Inc., Box 519, Washington, Pa.
 Annis, Aldon P., c/o Texas Vitrified Pipe Co., Box 111, Mineral Wells, Texas
 Antaki, Emile, Calle Espana 402/600, Avellaneda, Buenos Aires, Argentina
 Anthony, George H., 41 Marion Dr., Poland, Ohio
 Anwyl, Robert H., 1588 Bellaire Pl., Pittsburgh 26, Pa.
 Ao, Takeo, No. 11 1-chome, Dairyō-Machi Sumiyoshi, Osaka, Japan
 Arango, G. Botero, Balboa 63-13, Medellin, Colombia
 Archbold, Walter H., Jr.,† 125 Smallwood Dr., Snyder 21, N. Y.
 Archibald, W. A., The British Iron & Steel Research Assn., 140 Battersea Park Rd., London S. W. 11, England.
 Archie, Chad L., Jackson Brick & Clay Products Co., Corinth, Miss.
 Archie, Chad L., Jr. (S), Box 465, Corinth, Miss.
 Arensberg, Francis L., Vesuvius Crucible Co., Box 8275, Swissvale, Pittsburgh 18, Pa.
 d'Argenteuil, Comte L. de Meeus, Societe Ceramique, Hoge Barakkenstraat 6, Maastricht, Netherlands
 Arketex Ceramic Corp. (George Shoemaker), 6 N. Walnut St., Brazil, Ind.
 Armco Steel Corp. (R. S. Burns), Research Library, Middletown, Ohio
 Armistead, W. H., 65 E. First St., Corning, N. Y.
 Armstrong Cork Co. (E. C. Emanuel), Research Labs., Lancaster, Pa.
 Armstrong, Leland R.,† 27 Morgan Ave., Washington, Pa.
 Arnold, Howard C.,*† 76 Standish Blvd., Pittsburgh 28, Pa.
 Arnold, Russell E.,* Box E, East Akron Station, Akron 5, Ohio
 Arnold, Thomas M.,† Red Wing Potteries, Inc., Red Wing, Minn.
 Arrance, Frank C.,† Coors Porcelain Co., Golden, Col.
 Arrandale, Roy S., Thatcher Glass Mfg. Co., Inc., 1901 Grand Central Ave., Elmira, N. Y.
 Arras, George, 32 S. Peoria St., Chicago 7, Ill.
 Arthur, Edwin P., 2415 Catherine Rd., Altadena, Calif.
 Arwine, A. S., Refractory & Insulation Corp., Port Kennedy, Pa.
 Asdell, Bernard K., Edgar Brothers Co., McIntyre, Ga.
 Asher, Glen J.,† 2568 Illinois, South Gate, Calif.
 Ashman, Leland E., Mellon Institute, 4400 Fifth Ave., Pittsburgh, Pa.
 Ashworth, George L., & Brothers, Ltd. (William G. Evans), Broad St. Works, Hanley, Stoke-on-Trent, England
 Auer, Konrad F., Netstal, Kt. Glarus, Switzerland
 Ault, Neil N., Research Lab., Norton Co., Worcester, Mass.
 Auskern, Allan (S), Department of Ceramics, M. I. Bldg., Pennsylvania State College, State College, Pa.
 Austenal Laboratories, Inc., (R. C. Feagin), 224 E. 39th St., New York, N. Y.
 Austin, Arthur O., Box 109, Barborton, Ohio
 Austin, Charles E., Consolidated Brick Co., Horseheads, N. Y.
 Austin, Chester R.,*† Koppers Co., Research Dept., Koppers Bldg., Pittsburgh 19, Pa.
 Austin, James Bliss,* Research Lab., United States Steel Corp., Lincoln Highway, Kearny, N. J.
 Austin, J. L.,† Carborundum Co., Niagara Falls, N. Y.
 Austin, Lewis M., 2334 Middlesex Dr., Toledo 6, Ohio
 Aydelott, Elliott C.,† R.R. 3, Clarks Summit, Pa.

B

Baab, Kenneth A.,† 628 Sixth Ave., Bethlehem, Pa.
 Baarson, Robert E., Armour and Co., Chemical Div., Flotation Sect., 1355 W. 31st St., Chicago 9, Ill.
 Baba, Paul D. (S), 358 Pennington St., Elizabeth 2, N. J.
 Babcock, Clarence L.,* 1718 Potomac, Toledo 7, Ohio
 Babcock, M. G., 618 Kenilworth Dr., Pittsburgh 34, Pa.
 Babcock, Paul R.,† Frenchtown Porcelain Co., Frenchtown, N. J.
 Babcock & Wilcox Co. (A. M. Kohler), 161 E. 42nd St., New York 17, N. Y.
 Bach, Carl H., Tuthill Bldg. Material Co., 545 E. 103rd St., Chicago 28, Ill.

Bach, William E., Jr. (J), 2709 Cypress Way, Cincinnati 12, Ohio
 Bacher, Holland R., Rock Tavern, N. Y.
 Bachman, Charles D., Apt. 13-A, Arnold Dr., Millville, N. J.
 Bachman, George S., 151 W. Washington St., Shelbyville, Ind.
 Bachman, Wheeler Carr, R.R. 5, Grafton, W. Va.
 Backus, Lulu S., 451 S. Goodman St., Rochester 7, N. Y.
 Bacon, Frank R., 3153 Darlington Rd., Toledo 6, Ohio
 Bacon, Leslie R., Research & Development Div., Wyandotte Chemicals Corp., Wyandotte, Mich.
 Badger, Alfred E.,* Libbey-Owens-Ford Glass Co., 1701 E. Broadway, Toledo 5, Ohio
 Baer, G. F., Universal Wheel and Abrasive Corp., 400 N. Ashland Ave., Chicago, Ill.
 Baer, G. M., R. C. Remmey Son Co., Hedley St. & Delaware River, Philadelphia 37, Pa.
 Bagby, Richard A. (S), 128 E. Hamilton Ave., State College, Pa.
 Bagley, Norman H., 11 Hillcrest Rd., Caldwell, N. J.
 Bailey, Cuthbert, Doulton & Co., Ltd., Royal Doulton Potteries, Burslem, Stoke-on-Trent, England
 Bailey, Floyd,† 840 S. Sixth St., Kankakee, Ill.
 Bailey, James,* 95 Steele Rd., West Hartford 7, Conn.
 Bain, Andrew R., The Whins, 26 Park Terrace, Stirling, Scotland
 Bair, George J., *† Technical Products Div., Corning Glass Works, Corning, N. Y.
 Baker, Arvid H., 89 Church St., Port Allegany, Pa.
 Baker, Burton E., 15 Gwynlake Dr., Baltimore 7, Md.
 Baker, D. Martin, 1025 Gardner Blvd., Barborton, Ohio
 Baker, Dunbar J. (J), 118 S. Jefferson St., Mt. Union, Pa.
 Baker, Henry J. (J), 4820 Roland Ave., Baltimore 10, Md.
 Baker, Houston R., 158 E. Third St., Corning, N. Y.
 Baker, Robert L., 46 Highland Ave., Wellsville, N. Y.
 Baker & Co., Inc. (H. Klausmann), 113 Astor St., Newark, N. J.
 Baldauf, Earl E.,† Flamingo Tile Corp., Box 268, Lake Wales, Fla.
 Baldry, Stanley F. T., E. R. G. Industrial Corp., Ltd., Luton Rd., Dunstable, Beds., London, England
 Baldwin, E. H., Pennsylvania Wire Glass Co., Dunbar, Pa.
 Baldwin, William J., Titanium Alloy Mfg. Div., National Lead Co., Niagara Falls, N. Y.
 Balinkin, Isay A., University of Cincinnati, Cincinnati 21, Ohio
 Balint, Nancy (J), 171 Morsemere Ave., Yonkers, N. Y.
 Balke, Claire C., Balke Research Associates, Inc., 20 Livezey St., Doylestown, Pa.
 Ball Brothers Co., Muncie, Ind.
 Ball, Albert L., Bay State Abrasive Products Co., Westboro, Mass.
 Banister, Monte W. (S), 1513 S. Cornelia, Sioux City 6, Iowa
 Baque, Harold W., 1511 Mohican Dr., Pittsburgh 28, Pa.
 Barba, C. E., Sr., R.R. 1, Doylestown, Pa.
 Barba, C. E., Jr., Creek Rd., R.R. 1, Doylestown, Pa.
 Barber, Stephen W., Owens-Illinois Glass Co., 1700 N. Westwood Ave., Toledo, Ohio
 Barbour, David J.,* 345 E. Highland Dr., Zanesville, Ohio
 Barium Reduction Corp. (K. O. Priddy), South Charleston 3, W. Va.
 Barbre, Norris H., Mellon Institute, 4400 Fifth Ave., Pittsburgh 13, Pa.
 Barger, Harold D., 31328 Lake Rd., Bay Village, Ohio
 Barker, Harry L., The Salem China Co., Salem, Ohio
 Barlett, Helen B.,* A C Spark Plug Div., General Motors Corp., Flint 2, Mich.
 Barnes, Lt. Harry H.,† 166th Ftr. Sq. Lockbourne AFB, Columbus, Ohio
 Barnes, Wilson R., Corhart Refractories Co., 16th and Lee Sts., Louisville 10, Ky.
 Barnett, Charles W. H., 53A Midland St., Worcester, Mass.
 Barney, Ronald N. (S), Box 1677, Georgia Tech., Atlanta, Ga.
 Baron, Jean, 15 Place Carnot, Nancy (Meurthe et Moselle), France
 Barr, Harry, Consolidated Feldspar Dept., International Minerals & Chemical Corp., 28 W. State St., Trenton, N. J.
 Barr, Norman E.,† Eagle Picher Co., Box 290 Research Dept., Joplin, Mo.
 Barr, Robert A., 162 Buena Vista Ave., Fair Haven, N. J.
 Barr, Seymour J., Shenandoah Brick & Tile Corp., Box 32, Winchester, Va.
 Barrett, Harvey N., Jr., 2233 St. James Parkway, Cleveland Heights, Ohio
 Barrett, Maurice (Life), 8 Oxcliffe Rd., Morecambe & Heysham, England
 Barrett, Wayne E., R. R. 1, West Des Moines, Iowa
 Barringer, Lawrence E.,*† 23 Front St., Schenectady 5, N. Y.
 Barron, Frank C., 75 Atlantic Ave., Matawan, N. J.

Bartholomew, George A., 5514 Wilkins Ave., Pittsburgh 17, Pa.
Bartlett-Collins Co. (Harrison I. Bartlett), Sapulpa, Okla.
 Bartlett, E. E., 4387 Boca Chica Blvd., Brownsville, Texas.
 Bartlett, Harrison I., Bartlett-Collins Co., Sapulpa, Okla.
 Barton, G. E.* (Life), 227 Pine St., Millville, N. J.
 Brazzighi, Luciano, Ceramica São Caetano, Rua Roa Vista, 84-6° andar, Caixa Postal 278, São Paulo, Brazil
 Bass, N. W., Brush Beryllium Co., 4301 Perkins Ave., Cleveland 3, Ohio
 Bassett, Leon B., Box 284, Alfred, N. Y.
 Bassett, Ray E., Acme Brick Co., Box 425, Fort Worth, Texas
 Bassett, Robert, Staso Milling Co., Darlington, Beaver County, Pa.
 Bateman, L. A., Eljer Co., Enamel-Ware Div., Salem, Ohio
 Bates, Charles E., Hanley Co., Summerville, Pa.
 Bates, Edgar A., 204 Florida Dr., New Kensington, Pa.
 Bates, H. Clifford, Corning Glass Works of Canada Ltd., Leaside, Ont., Canada
 Bates, P. H.* (Life), 1620 Seventh St. N., St. Petersburg, Fla.
 Bateson, H. Marshall, 68 Spring Grove, Loughton, Essex, England
 Bauer, Richard M., 728 St. Louis Ave., Zanesville, Ohio
 Bauer, Wolf G., 5213 11th Ave., N. E., Seattle, Wash.
 Bauleke, Maynard P. (S), Ceramic Engineering Dept., Iowa State College, Ames, Iowa
 Baumann, Henry N., Jr.,† 1275 Wyoming Ave., Niagara Falls, N. Y.
 Baumer, Leon N., 240 Rockingham Rd., Pittsburgh 15, Pa.
 Baumlner, Karl, Pittsburgh Corning Corp., Sedalia, Mo.
Bausch & Lomb Optical Co. (Murray Scott), Rochester 2, N. Y.
Bay State Abrasive Products Co. (O. S. Buckner), Westboro, Mass.
 Bayliss, John M., 629 Frederick St., Lancaster, Ohio
 Beal, D. S., 15 Oak Dr., Poland, Ohio
 Beals, M. Douglas, Research Lab., Titanium Div., National Lead Co., South Amboy, N. J.
 Beals, Robert J., 109 Ceramics Bldg., University of Illinois, Urbana, Ill.
 Beam, James R.,*† 23 Crown Terrace, Morrisville, Pa.
 Beard, Clinton L., 2562 N. Palmer St., Milwaukee 12, Wis.
 Beasley, Dennis R., 3654 Piedmont Rd., Huntington, W. Va.
 Beathard, Robert K., General Tile Corp., Box 38, El Segundo, Calif.
 Beaton, Orville, Gem Clay Forming Co., Sebring, Ohio
 Beaudoine, Armand J. (J), 3410 Archwood Ave., Cleveland 9, Ohio
 Beaver, Wallace W., Brush Beryllium Co., 4301 Perkins Ave., Cleveland, Ohio
 Beazell, William H., American Window Glass Co., 9 W. Park Way, Pittsburgh 12, Pa.
 Bebbington, Philip J., 59 Russin Ave., Framingham, Mass.
 Bechtel, Frances E., R.R. 2, Saunders Settlement Rd., Lewiston, N. Y.
 Bechtner, Paul, American Colloid Co., Merchandise Mart Plaza, Rm. 813, Chicago 54, Ill.
 Beck, Elmer W., Ceramic Supply Co., Crooksville, Ohio
 Beck, Homer, Richland Shale Brick Co., Mansfield, Ohio
 Beck, Norman R., Carr-Lowrey Glass Co., Baltimore 3, Md.
 Beck, Roy D., 6330 Moraine Ave., Hammond, Ind.
 Beck, Warren R., Central Research Dept., Minnesota Mining & Mfg. Co., St. Paul 1, Minn.
 Beckemeyer, Harry J., Research Lab., Universal-Rundle Corp., New Castle, Pa.
 Becker, Bruce N. (J), 130 Walnut St., Fleetwood, Pa.
 Becker, Martin G., Box 542, Brookhaven, Miss.
 Beecher, Milton F.,*† 50 Woodland Rd., Holden, Mass.
 Beeler, L. S., Reynolds Metals Co., 2500 S. Third St., Louisville 1, Ky.
 Beerman, Henry P. (J), National Bureau of Standards, 209 West Bldg., Washington 25, D. C.
 Beers, Roland F., Box 1015, Troy, N. Y.
 Beeton, Earl E.,† 1604 Lincoln St., Bethlehem, Pa.
 Begien, Virginia, American Ceramic Society, Inc., 2525 N. High St., Columbus, Ohio
 Behrenberg, John (J), 7 Prospect St., Warren, Pa.
 Behrend, Oswald, 4037 Packard Rd., Toledo, 12, Ohio
 Behringer, H. L., Tygart Valley Glass Co., Washington, Pa.
 Beinlich, Alfred W., 3404 19th Ave., Sheffield, Ala.
 Beinlich, Justus J., U. S. Steel Corp., Rm. 2421, 525 William Penn Place Bldg., Pittsburgh 30, Pa.
 Bell, Kenneth E., Saskatchewan Clay Products, Estevan, Sask., Canada
 Bell, Richard, Bell Minerals Co., West Paris, Me.
 Bell, W. C., Dept. of Engineering Research, North Carolina State College, Raleigh, N. C.
 Bellido, Bartolome Darnis, Lugones (Oviedo), Spain
 Below, Henry, Pennsburg Pottery, Morrisville, Pa.
 Benbenek, Raymond,† Pleasant Garden, N. C.

Bender, Bob G.,† Rauland Corp., 4245 N. Knox Ave., Chicago 41, Ill.
 Bender, John H. (S), 1980 Teller Ave., Lakewood, Colo.
 Benedict, Virginia, American Ceramic Society, 2525 N. High St., Columbus 2, Ohio
Benjamin Electric Mfg. Co. (Hoyt P. Steele), Des Plaines, Ill.
 Benner, LCDR Stanley G., U.S.N.R., AE-416, Navy Dept., Washington 25, D. C.
 Benner, W. J., 730 Romona Rd., Wilmette, Ill.
 Bennett, Alva H., American Optical Co., Research Center, Southbridge, Mass.
 Bennett, A. Lee,*† Gladding, McBean & Co., 2901 Los Feliz Blvd., Los Angeles 39, Calif.
 Bennett, Dwight G.,*† 204 Ceramics Bldg., University of Illinois, Urbana, Ill.
 Bennett, Francis H., Pratt & Whitney Aircraft, MDL D-958, East Hartford 8, Conn.
 Bennett, Frederick R., Box 325, Hartsville, S. C.
 Bennett, Harry J., Crooksville China Co., Crooksville, Ohio
 Bennett, Myles P.,† 6552 N. Oldham Lane, San Gabriel, Calif.
 Bennett, Walter R., Acme Brick Co., Denton, Texas
 Bentz, Frank J., National Plumbing Pottery, Inc., Dearborn St., Zanesville, Ohio
 Berg, Morris (S), 3407 Tulane Dr., Apt. 33, West Hyattsville, Md.
 Bergamaschi, Henry Trent (S), 518 29th St., Union City, N. J.
 Berger, Bernard M., Dept. 817, Sears, Roebuck & Co., 925 S. Homan Ave., Chicago 7, Ill.
 Berger, Donald Francis, 41 W. South St., Painesville, Ohio
 Bergeron, Clifton G.,† 12027 W. Potter Rd., Milwaukee 13, Wis.
 Berg-Iversen, Wiggo, A/S Egersunds Fayancefabriks Co., Egersund, Norway
 Berkelhamer, Louis H.,† Ohmite Mfg. Co., 4835 Flournoy St., Chicago 44, Ill.
 Bernardino, Guy F., Box 70-A, R. R. 1, Latrobe, Pa.
 Berns, Milton H., 42 Dudley Ave., Hamburg, N. Y.
 Bernstorff, Robert B., Box 679, East Liverpool, Ohio
 Best, Edison F., Libbey-Owens-Ford Glass Co., 1701 E. Broadway, Toledo 5, Ohio
Bethlehem Steel Co. (H. M. Kraner), Bethlehem, Pa.
 Bettison, L. S., Chambers Brothers Co., 52nd St., Corner of Media, Philadelphia 31, Pa.
 Betz, George C.,*† Metal & Thermit Corp., 100 E. 42nd St., New York 17, N. Y.
 Betz, Wilbert A., The U. S. Potters Assn., 104 E. Fourth St., East Liverpool, Ohio
 Bevis, Ralph E.,† Aconcagua 615, Mexico 10, D. F.
 B. G. Corp. (Frank J. Fallon), Ridgefield, N. J.
 Bickelhaupt, Roy E. (J), 853 Forrest Ave., South Bend, Ind.
 Bickford, Fred A., Box 29, R. R. 2, Campbell, N. Y.
 Biddle, George J., 208 S. La Salle St., Chicago 4, Ill.
 Biddulph, Albert, 11 Holden Rd., Wolverhampton, England
 Bidwell, George E., 605 W. Martin St., Abingdon, Ill.
 Billian, Carroll J., Owens-Illinois Glass Co., General Research Div., 1700 N. Westwood Ave., Toledo 1, Ohio
 Billings, David D., Glass Containers, Inc., 3601 Santa Fe Ave., Los Angeles 11, Calif.
 Birch, Raymond E.,*† 1800 Farmers Bank Bldg., Pittsburgh 22, Pa.
 Bishop, Frederic L.,* American Window Glass Co., Research Dept., Turtle Creek, R. R. 2, Pa.
 Bishop, Harold E., Owens-Corning Fiberglas Corp., Anderson, S. C.
 Bishop, Laverne R., 3329 Market, East St. Louis, Ill.
 Bissell, Don W., Jr.,† 850 Sherwood Dr., N. W., Beloit, Wis.
 Bissell, E. S., L. H. Butcher Co., 3628 E. Olympic Blvd., Los Angeles 23, Calif.
 Black, H. R., Kimble Glass Co., 2626 Dorr St., Toledo, Ohio
 Black, James A., 13700 Sparta Ave. N. W., Kent City, Mich.
 Black, Lloyd V., 1006 Oregon Ave., Tarentum, Pa.
 Blackburn, A. Reif,† 204 N. State St., Westerville, Ohio
 Blackwood, James M.,† 59 W. Royal Forest Blvd., Columbus, Ohio
 Blaes, Henry M., II (J), 339 N. Hoover Ave., Whittier, Calif.
 Blaha, Emil, 415 Ashmead Rd., Cheltenham, Pa.
 Blair, Gerald E., 1744 Ayrault Rd., Fairport, N. Y.
 Blair, Marion W.,* 2131 S. Center St., Terre Haute, Ind.
 Blaison, Pierre, Societe Des Electrodes Et Refractoriels "Savoie," 43, Rue de l'Industrie, Venissieux (Rhône), France
 Blake, A. E., 78 Park Ave., West Caldwell, N. J.
 Blake, Edwin M., Box 210, Mount Kisco, N. Y.
 Blake, William V.,† Macklin Abrasive Co., Jackson, Mich.
 Blanchard, M. Kenneth, A. O. Smith Corp., 3533 N. 27th St., Milwaukee 1, Wis.
 Bland, Edward J., 9563 Manorford Dr., Parma Heights 29, Ohio
 Blankenstein, E. E., Western Electric Co., 2525 Shadeland Ave., Indianapolis, Ind.
 Blau, Henry H.,*† Federal Glass Co., E. Innis Ave., Columbus 7, Ohio

Blenko, William
 Blessing, Rob
 17, Mo.
 Bliss, L. G.
 Philadelphia 44
 Blocksidge, A.
 Longworth
 Blodgett, Ma
 Blodgett, Wil
 Blohm, Richar
 Bloom, Ray
 Co., Canton
 Bloor, C. A.
 Bloore, Robe
 England
 Bloss, Harol
 Blue Ridge C
 Blum, Seymo
 chusetts In
 Blume, Arthu
 Blunt, Royde
 St., Baltim
 Blythe Colou
 land
 Boardman, C
 Ave., West
 Bobrowsky,
 Boeker, V.
 St., New Y
 Bogatay, Pa
 Bognar, Ed
 Pittsburgh
 Bohn, Edwar
 Bole, George
 Columbus
 Bollinger, R
 Elizabeth
 Bolon, Davie
 Bolton, Harr
 Independent
 Bolz, Leona
 Conn. Ave
 Bonebrake
 Pittsburgh
 Bongiovann
 Bonifas, Pa
 Bonk, John
 N. Y.
 Bonner, Do
 Bonnot Co.
 Bonnot, B.
 Boone, John
 Booth, John
 field, York
 Booze, M.
 Sta., Cinc
 Bopp, Harc
 Boros, John
 Bosch, F.
 chemie, 2
 Bosler, K
 Botfield R
 Clymer S
 Botfield, G
 Sts., Phi
 Boudier, N
 Boulbee, I
 PM. Nev
 Bouline, Je
 Bourgerie
 Ave., Ch
 Bovee, Ber
 Bower, Da
 Bower, Jan
 Bowers, D
 Bowes, Cr
 Toledo 1
 Bowman, I
 Bowman, I
 Bowman,
 Bowne, M
 Boyce, Jos
 Pa.
 Boyce, Ro
 Boyce, W
 Boyd, Fra
 N. J.
 Boyd, G.
 more A.

Blenko, William H., Jr., 1412 Main St., Milton, W. Va.
 Blessing, Robert Lee,† 1720 Boneta Ave., Richmond Heights
 17, Mo.
 Bliss, L. G., Foote Mineral Co., 18 W. Chelton Ave., Phil-
 adelphia 44, Pa.
 Blocksidge, Arthur B., Jr., Jones & Laughlin Steel Corp., 40
 Longworth St., Pittsburgh 7, Pa.
 Blodgett, Malcolm, 660 Main St., Woburn, Mass.
 Blodgett, William E., 18 Mishawum Rd., Woburn, Mass.
 Bohn, Richard E. (J.), 71-6 Middlesex Rd., Waltham 54, Mass.
 Bloom, Ray A., c/o Technical Library, Timken Roller Bearing
 Co., Canton 6, Ohio
 Moor, C. A., Universal Clay Products Co., Sandusky, Ohio
 Moore, Robert B., Swinnertons Ltd., Hanley, Stoke-on-Trent,
 England
 Moss, Harold E. (S), Box BB, Alfred, N. Y.
 One Ridge Glass Corp. (J. H. Lewis), Kingsport, Tenn.
 Blum, Seymour† (S), Dept. of Metallurgy, Rm. 4-051, Massa-
 chusetts Institute of Technology, Cambridge 39, Mass.
 Blume, Arthur J.,† c/o Murray Tile Co., Cloverport, Ky.
 Blunt, Royden A.,* Buck Glass Co., Fort Ave. & Lawrence
 St., Baltimore 30, Md.
 Blythe Colour Works, Ltd., Cresswell, Stoke-on-Trent, Eng-
 land
 Boardman, Charlotte K., Thomas A. Edison, Inc., 51 Lakeside
 Ave., West Orange, N. J.
 Bobrowsky, A. R., 2012 Pontiac Rd., R.R. 5, Ann Arbor, Mich.
 Boeker, V. W.,† Owens-Corning Fiberglas Corp., 16 E. 56th
 St., New York, N. Y.
 Bogatay, Paul, 45 W. Weisheimer Rd., Columbus 2, Ohio
 Bognar, Edwin J.,† Bognar & Co., Inc., 2041 Oliver Bldg.,
 Pittsburgh 22, Pa.
 Bohn, Edward L., Mullite Refractories Co., Shelton, Conn.
 Bole, George A.,* Engr. Experiment Sta., Ohio State University,
 Columbus 10, Ohio
 Bollinger, Robert H.,† Georgia Kaolin Co., 433 N. Broad St.,
 Elizabeth, N. J.
 Bolon, David G.,† 415 Nob Hill Place, Apt. 5, Ann Arbor, Mich.
 Bolton, Harry L., Philadelphia Quartz Co., Public Ledger Bldg.,
 Independence Square, Philadelphia 6, Pa.
 olz, Leonard H., National Bureau of Standards, Div. 9:7
 Conn. Ave. & Van Ness, Washington 25, D. C.
 Bonebrake, H. P., Aluminum Co. of America, Alcoa Bldg.,
 Pittsburgh 19, Pa.
 Bongiovanni, John C., Park Blvd., East Liverpool, Ohio
 Bonifas, Paul A., 5023 Eighth Ave., N.E., Seattle 5, Wash.
 Bonk, John A., Corning Glass Works, Fallbrook Plant, Corning,
 N. Y.
 Bonner, Don B., 2149 E. 37th St., Los Angeles 11, Calif.
 Bonnot Co. (B. T. Bonnot), Canton, Ohio
 Bonnot, B. T.,* The Bonnot Co., Canton, Ohio
 Boone, John W., 46 Rugby Rd., Binghamton, N. Y.
 Booth, John F., Hazlehead Hall, Penistone, Nr. Sheffield, Shef-
 field, York, England
 Booze, M. C.,* Charles Taylor Sons Co., Box 58, Annex
 Sta., Cincinnati 14, Ohio
 Bopp, Harold F.,* 67 Gorton St., Corning, N. Y.
 Boros, John, 1140 E. Jackson St., Long Beach 5, Calif.
 Bosch, F. M., Laboratory Anorganisch-Technische & Electro-
 chemie, 22 Plateaustaat, Ghent, Belgium
 Bosler, Krell, 613 Worcester Rd., Towson 4, Md.
 Botfield Refractories Co. (George B. Botfield), Swanson &
 Clymer Sts., Philadelphia 47, Pa.
 Botfield, George B., Botfield Refractories, Swanson & Clymer
 Sts., Philadelphia 47, Pa.
 Boudier, Norman M., Jr., 4820 Roland Ave., Baltimore 10, Md.
 Boulton, Donald (J), 293rd Engr. Const. Bn., APO 34, c/o
 PM, New York, N. Y.
 Bounine, Jean, Strafor-Maroc-Fedala, Morocco, N. W. Africa
 Bourgerie, R. D., Radio Materials Corp., 3325 N. California
 Ave., Chicago, Ill.
 Bovee, Benedict A., Winter Rd., Grand Island, R.R., N.Y.
 Bower, David N., 3932 Rohr Dr., Toledo 13, Ohio
 Bower, James A., 107 First St., Chester, W. Va.
 Bowers, Donald J., 950 Highland Dr., Columbus 14, Ohio
 Bowes, Urban E.,* Owens-Illinois Glass Co., Box 1035-1036,
 Toledo 1, Ohio
 Bowman, Donald C., 170 N. Du Bois Ave., Elgin, Ill.
 Bowman, Eugene D., 265 S. Monroe Ave., Columbus 5, Ohio
 Bowman, John G., 341 S. Juliana St., Bedford, Pa.
 Bowne, Martin S.,† Lee Clay Products Co., Clearfield, Ky.
 Boyce, Joseph, Vitro Mfg. Co., 60 Greenway Dr., Pittsburgh,
 Pa.
 Boyce, Robert E., Harker Pottery Co., East Liverpool, Ohio
 Boyce, Walter A. (J), 84 Whittlessey Ave., West Orange, N. J.
 Boyd, Frank H., S. G. Frantz Co., Inc., Box 1138, Trenton,
 N. J.
 Boyd, G. M., Locke Dept., General Electric Co., Box 57, Balti-
 more 3, Md.

Boyd, Harold W., Jr., Mead Board Sales, Inc., 3351 Madison
 Rd., Cincinnati 9, Ohio
 Boyd, John E.,† Box 2414, Greensboro, N.C.
 Boyd, Robert C.,*† American Radiator & Standard Sanitary
 Corp., 1541 S. Seventh St., Louisville 8, Ky.
 Boyles, John P., Scammel China Co., 300 Third St., Trenton,
 N. J.
 Boynton, Claudia G., 7040 Yale Ave., Chicago 21, Ill.
 Boynton, Robert S., National Lime Assn., 925 15th St. N.W.,
 Washington 5, D. C.
 Bozzo, J. G., Pierce Glass Co., Port Allegany, Pa.
 Brackbill, Charles E., 1415 County Line Rd., Fostoria, Ohio
 Bracken, A. Lloyd, Jr., 1024 Trout Brook Dr., West Hartford,
 Conn.
 Bradford, Virgil E. (S), 59 Reeb Ave., Columbus 7, Ohio
 Bradley, Alan L., Consolidated Rand Brick, Pottery & Lime Co.,
 Box Olifantsfontein, Transvaal, South Africa
 Bradley, Charles A., Jr., 21 E. Fourth St., Corning, N. Y.
 Bradley, Fennimore N. (S), 605 Merriam St., Chattanooga 5,
 Tenn.
 Bradley, John R., 46 Maple St., Hornell, N. Y.
 Bradley, R. S.,*† A. P. Green Fire Brick Co., Research Dept.,
 Mexico, Mo.
 Bradstreet, Samuel W., Armour Research Foundation, 35 W.
 33rd St., Chicago, Ill.
 Bradwell, Cyril,† Parkhurst Apts. 2B, Barbara & Marion Sts.,
 Bethlehem, Pa.
 Brady, Charles P., 3609 N. Gondar Ave., Long Beach 8, Calif.
 Brady, John G., Dept. of Mines & Technical Surveys, Ceramic
 Section, 40 Lydia St., Ottawa, Ont., Canada
 Brady, Justin M., American Art Clay Co., 4717 W. 16th St.,
 Indianapolis, Ind.
 Brady, T. E., Surface Combustion Corp., 2375 Dorr St., Toledo,
 Ohio
 Brain, Douglas G., 1960 Jane St., Toronto 15, Ont., Canada
 Bramlett, William P., Jr.,† Cumberland Rd. R. R. 2, Millville,
 N. J.
 Brandt, Kristian H., Box 212, Red Bank, N. J.
 Brandt, Martha W., National Glass Budget, 800 Grogan Bldg.,
 Pittsburgh 22, Pa.
 Brandt, Neill M.,* Mellon Institute, 4400 Fifth Ave., Pittsburgh,
 Pa.
 Brandt, William O.,*† Gladding, McBean & Co., 2901 Los
 Feliz Blvd., Los Angeles 39, Calif.
 Brant, David G.,† Universal-Rundle Corp., Box 300, Red-
 lands, Calif.
 Brashares, C. A., 603 Protective Life Bldg., Birmingham 3,
 Ala.
 Brassfield, Henry C., 8269 Sandy Lane, Cincinnati 24, Ohio
 Brauckman, Alvin J. (S), 3 Kern Ramble, Austin, Texas
 Braun Corp. (O. H. Lamb), 2260 E. 15th St., Los Angeles
 21, Calif.
 Bray, A. C., Western Clay Mfg. Co., Box 176, Helena, Mont.
 Bray, Kenneth J., Wenzel Tile Co., Trenton, N. J.
 Braykovich, A. F., Box 4367 Station A, San Antonio, Texas
 Brayton, E. Georgia, Brayton Potteries, Inc., 1450 Coast Blvd.
 S., Laguna Beach, Calif.
 Brazee, Erland, Elektriska Svetsnings A/B, Gothenburg,
 Sweden
 Breedlove, James G.,† American Lava Corp., Chattanooga, Tenn.
 Breene, George A., Industrial Colloids Co., Emmenton, Pa.
 Breeze, Lewis K., 467 E. 146th St., Cleveland 10, Ohio
 Breitwieser, Robert H., 5070 Valjejo St., Denver, Col.
 Brekke, Trygve, Box 266, Stavanger, Norway
 Brennan, B. T., Chisholm, Boyd & White Co., 610 W. 57th
 St., Chicago 21, Ill.
 Brennand, Ricardo, Ceramica São Joao S. A., Caixa Postal 231,
 Recife, Pernambuco, Brazil
 Brenner, Harold M., B. F. Drakenfeld & Co., Inc., Wash-
 ington, Pa.
 Brenner, R. F.,* Anchor Hocking Glass Co., Lancaster, Ohio
 Brettell, I. P., The Cooksville Co., 1055 Yonge St., Toronto 5,
 Canada
 Bretz, Lewis A., 1718 Theodan Dr., Pittsburgh 16, Pa.
 Brewer, Bob, Mineral Wells Clay Products Co., Mineral
 Wells, Texas
 Brewster, Gordon F., East Williamson, N. Y.
 Brian, Charles, Paper Makers Importing Co., Inc., 44 S.
 Second St., Easton, Pa.
 Brian, Dick, 422 Florida Ave., Chester, W. Va.
 Brian, S. Douglas, Paper Makers Importing Co., Inc., 44 S.
 Second St., Easton, Pa.
 Brigham, Ralph V., Jr., Onondaga Pottery Co., 2900 Court St.,
 Syracuse, N. Y.
 Brinkman, Robert J. (J), 3209 Wayne Ave., Dayton 10, Ohio
 Bristow, J. S., William Jessop & Sons, Ltd., Brightside Works,
 Sheffield, England
 Bristow, Robert H.,† 530 Fairlawn Dr., Urbana, Ill.
 Britcher, Gordon, 306 Berkeley Dr., Syracuse 10, N. Y.

British Ceramic Society, North Staffordshire Technical College, Stoke-on-Trent, England
 Brittain, Clifford G. (S), Box 1307, Clemson, S. C.
 Britton, Marvin G. (S), 139 Steuben St., Painted Post, N. Y.
 Brockway Glass Co., Inc. (F. B. Hess), Brockway, Pa.
 Brooke, Stanley, Oughtibridge Silica Firebrick Co., Ltd., Oughtibridge, Sheffield, England
 Brooks, Robert H., 4380 Harmon Rd., El Sobrante, Calif.
 Broomhall, Vincent, Continental Kilns, Inc., Box 755, East Liverpool, Ohio
 Brosius, John P., 403 Emerson Ave., Aspinwall, Pittsburgh 15, Pa.
 Broske, William F., Aircraft-Marine Prods., Inc., 323 S. Cameron St., Harrisburg, Pa.
 Brown, Colin C., 21 Medbury Ave., Cuba, N. Y.
 Brown, Donald Nicol, 4 E. Third St., Corning, N. Y.
 Brown, Donovan P., 420 Curtis Bldg., 2842 W. Grand Blvd., Detroit 2, Mich.
 Brown, George R., North American Mfg. Co., 4455 E. 71st St., Cleveland 5, Ohio
 Brown, John J., Jr., c/o Moland-Drysdale Corp., Hendersonville, N. C.
 Brown, Joseph A., Baltimore Brick Co., 3200 E. Madison St., Baltimore 5, Md.
 Brown, Lawrence H.,*† Box 632, East Liverpool, Ohio
 Brown, Leslie, Lenox Inc., Trenton 5, N. J.
 Brown, Meredith C., 9500 S. Norwalk Blvd., Los Nietos, Calif.
 Brown, Raymond G., Comstock & Wescott, Inc., Box 835, Niagara Falls, N. Y.
 Brown, Raymond J. (J), 1930 S. Scoville, Berwyn, Ill.
 Brown, Roy W., 3842 Grennoch St., Houston 25, Texas
 Brown, Wilbur F.,* Libbey-Owens-Ford Glass Co., Rossford, Ohio
 Brown, William E., 1966 Clearview Ave., Norristown, Pa.
 Browne, Thomas C., Box 246, Alexandria, Pa.
 Brownell, Wayne E., 126 Hornell St., Hornell, N. Y.
 Brueggerhoff, Charles (J), Mexican Zinc Co., N. Rosita, Coahuila, Mexico
 Brummer, George M. (S), 965 Sweet Home Rd., Williamsville 21, N. Y.
 Brunner, Cedric D., 2223 Table Dr., Golden, Col.
 Brunning, Ernest J., Consumers Glass Co., Ltd., Box 210, Sta. B, Montreal, Que., Canada
 Bruno, Lucien V., Federal Seaboard Terra Cotta Corp., Perth Amboy, N. J.
 Brush, George D.,† 35 E. Gay St., Rm. 413, Columbus 15, Ohio
 Bryant, Albert D., Standard Silica Corp., Box 407, Ottawa, Ill.
 Bryant, Eugene E.,*† Ferro Corp., 4150 East 56th St., Cleveland 5, Ohio
 Buchan, M. A.,† 325 South St., Benton, Ark.
 Buck Glass Co. (Royden A. Blunt), Fort Ave. & Lawrence St., Baltimore 30, Md.
 Buck, Ivan E., Jr., 300 Greenwood Ave., R. R., Cape May, N. J.
 Buckles, Paul E.,† 431 Water St., Tiffin, Ohio
 Buckner, O. S.,† Bay State Abrasive Products Co., Westboro, Mass.
 Buehler, Bert P., 2439 Torrington Ave., Parma 29, Ohio
 Buessem, W. R., School of Mineral Industries, State College, Pa.
 Buffalo Pottery, Inc. (R. E. Gould), 25 Hayes Place, Buffalo 10, N. Y.
 Builders Brick Co. (C. A. Houlahan), 3800 Ninth Ave., S., Seattle, Wash.
 Buktas, Bulent, The Sümerbank, Ankara, Turkey
 Bullard, Edward R., B. F. Drakenfeld & Co., Inc., Washington, Pa.
 Bunge, Fred H., The M. A. Hanna Co., Research Laboratory, Hibbing, Minn.
 Burch, Oscar G.,* Owens-Illinois Glass Co., Box 1035-1036, Toledo 1, Ohio
 Burchenal, Charles H., Cambridge Tile Mfg. Co., Box 71, Cincinnati 15, Ohio
 Burchfiel, B. M.,*† 4458 Westmoreland Court, Riverside, Calif.
 Burchfield, Paul E., Wyandotte Chemical Corp., Wyandotte, Mich.
 Burdick, Milton D.,† Porcelain & Pottery Section, National Bureau of Standards, Washington 25, D. C.
 Burdick, Robert B., Speer Carbon Co., Theresa St., St. Marys, Pa.
 Burdick, Sidney D., 104 Argonne St., Corning, N. Y.
 Burgess, Blandford C.,*† Dent. of State Mail Room, D.M.P.A., Johannesburg, South Africa, Washington 25, D. C.
 Burgner, Arthur J., Canadian Potteries, Ltd., St. Johns, Que., Canada
 Burke, L. Roger, 1203 Peoples Bank Bldg., Pittsburgh 22, Pa.
 Burke, O. W., Jr., 11281 E. Nine Mile Rd., Van Dyke, Mich.
 Burkhalter, Edward,† 7219 Interlaaken Dr., Tacoma 9, Wash.
 Burks, Cecil M., Jr. (J),† Apt. 2D, 424 Benton St., Joliet, Ill.

Burley, Frank N., 520 W. Ricketts St., Kokomo, Ind.
 Burley, Newton R., 1864 Dresden Rd., Zanesville, Ohio
 Burlingame, Howard G., California Metal Enameling Co., 60904 E. Slauson Ave., Los Angeles 22, Calif.
 Burnand, Guy M. (Life), Messrs. Johnson, Matthey & Co. Ltd., 78, Hatton Garden, London E. C. 1, England
 Burnett, W. A., Calicut, Malabar, S. India
 Burns, Frederick L., 1777 Norwood Blvd., Zanesville, Ohio
 Burns, Henry K., Jr., 1620 Waverland Dr., Macon, Ga.
 Burns, R. S., Armco Steel Corp., Research Library, Middletown, Ohio
 Burriss, William K., Rm. 713, Caxton Bldg., 812 Huron Rd., Cleveland 15, Ohio
 Burroughs, F. H., Box 1329, Trenton 7, N. J.
 Burton, Howard B., 1618 Arlington Ave., St. Paul 6, Minn.
 Burton, W. A., 803 E. Fourth St., Mt. Pleasant, Texas
 Burwinkel, Lawrence G., Jr., Pennsylvania Glass Sand Corp., 140 Stanwix St., Pittsburgh 22, Pa.
 Bush, Edward A. (S), 241 Sherman Ave., Vandergrift, Pa.
 Bush, James W.,† 2531 Brownsville Rd., Pittsburgh 10, Pa.
 Bushong, R. M., National Carbon Co., Tiffin & Town Sts., Fostoria, Ohio
 Busted, Donald J.,† 8 Janet Circle, Shrewsbury, Mass.
 Butcher, L. H., Co. (Everett S. Bissell), 3628 E. Olympic Blvd., Los Angeles 23, Calif.
 Butcher, William T., "Woodgarth," Stamford Brook Ave., London W. 6, England
 Butkovich, Edward M., 9000 Buffalo Ave., Chicago 17, Ill.
 Butler, C. Edward, Jr.,† Line Material Co., Illinois Electric Porcelain Plant, Macomb, Ill.
 Butler, F. W., Akron Porcelain Co., Akron 14, Ohio
 Butler, John, Ossipee, N. H.
 Butler, Mike W., Box 816, Austin 64, Texas
 Butler, Thomas J., Jr., Box 279, Austin 2, Texas
 Buttle, Robert L., 111 Bayview Dr., Absecon City, N. J.
 Buzard, Fred T., Bell, Pine & High Sts., Plymouth, Ohio
 Byrns, Alva C., Director of Chemical Research, Kaiser Aluminum & Chemical Corp., 1924 Broadway, Oakland 12, Calif.

C

C., Jerman Johannsen, c/o Cristal Yungay, Weir, Scott & Cia. Casilla 73-D., Santiago, Chile
 Cabanie, Lucien, E Japy Freres, Feschés-Le-Chatel, (Doubs) France
 Cable, John A., 1011 22nd St. N. E., Canton 4, Ohio
 Cable, Margaret,* 1520 San Miguel Ave., Santa Barbara, Calif.
 Cable, Stephen J., 811 28th St. N. E., Canton, Ohio
 Godfrey L. Cabot, Inc. (Frank E. Daley), 769 Independence Ave., Trenton 10, N. J.
 Cahoon, G. J.,† Knox Porcelain Corp., Knoxville 11, Tenn.
 Cahoon, Harold P. (S), 1555 E. 3350 South, Salt Lake City, Utah
 Caito, A. M., Basic Refractories, Inc., Maple Grove, Ohio
 Cala, Charles F., 144 Hoover Rd., Rochester 17, N. Y.
 Calderwood, F. Wayne, 227 N. Sheldon Ave., Ames, Iowa
 Caldwell, Helen, Administration Bldg., 1429 W. Seventh, Burlington, Iowa
 Caldwell, Smiley, Jr., Rolland Glass Co., Clarksburg, W. Va.
 Caldwell, William D.,† Perfection Stove Co., 1135 Ivanhoe Rd., Cleveland, Ohio
 Callahan, H. D.,*† U. S. Quarry Tile Co., East Sparta, Ohio
 Callinan, Edward E.,*† 24 E. Farnace St., Norristown, Pa.
 Cambridge Glass Co. (William C. Orme), Cambridge, Ohio
 Cameron, Robert Ayre, Corning Glass Works, Corning, N. Y.
 Campbell, C. V., 444 Florida Ave., Chester, W. Va.
 Campbell, Edward S., Northwestern Glass Co., 5801 E. Marginal Way, Seattle 4, Wash.
 Campbell, G. Donald, Pittsburgh Plate Glass Co., Wks. #50, Shelbyville, Ind.
 Campbell, Ian, California Institute of Technology, Pasadena 4, Calif.
 Campbell, Robert J., Jr. (S), 716 16th Ave. N., Seattle 2, Wash.
 Campbell, Robert M.,*† Alfred, N. Y.
 Campbell, Tom W., Box 255, Poland, Ohio
 Campbell, Van E., 363 Highland Ave., Wadsworth, Ohio
 Campos, F. Torres, Puerto Rico Clay Products Co., Box 4729, San Juan, Puerto Rico
 Canadian Ceramic Society, Miss L. C. Keith, 49 Turner Rd., Toronto 10, Ont., Canada
 Canfield, J. J.,* 2909 Orlando Dr., Middletown 20, Ohio
 Canning, Robert, 202 Fox Chapel Rd., Pittsburgh 15, Pa.
 Capellman, John J., 1118 Highland St., Tarentum 1, Pa.
 Cappelli, Louis A. (S), Theta Xi House, 179 Fourth St., N. W., Atlanta, Ga.
 Capps, Hubert, 1108 W. Third St., Coffeyville, Kan.
 Capps, Webster, National Bureau of Standards, Washington 25, D. C.
 Carborundum Co. (H. C. Martin), Niagara Falls, N. Y.

- Carder, Frederick* (Honorary), Steuben Div., Corning Glass Works, Corning, N. Y.
- Carey, J. Sheldon, Dept. of Design, University of Kansas, Lawrence, Kan.
- Carl, John E. (J.), Corning Glass Works, Box 544, Corning, N. Y.
- Carlen, Solve, Bolidens Gruvaktiebolag, Centrallaboratoriet, Skelleftehamn, Sweden
- Carlson, Joseph A., 50 Hawthorne St., San Francisco 16, Calif.
- Carlson, William G.,† 1452 Penn Ave., Pittsburgh 21, Pa.
- Carlyle, Edward C., Box 128, Ironton, Ohio
- Carmahan, Thomas D. (J.), B. F. Drakenfeld & Co. Inc., Box 519, Washington, Pa.
- Carnes, Kenneth C., 2643 Wesleyan Drive, Toledo 14, Ohio
- Carnes, Samuel J., Camark Pottery Co., Camden, Ark.
- Caro, Robert, Hedi Schoop Art Creations, Box 384, North Hollywood, Calif.
- Carothers, Harry S., H. C. Spinks Clay Co., 1000 First National Bank Bldg., Cincinnati 2, Ohio
- Carothers, R. B.,* H. C. Spinks Clay Co., Inc., Box 829, Paris, Tenn.
- Carothers, Richard B., Jr., Box 829, Paris, Tenn.
- Carothers, T. E., 1700 Devereaux Dr., Burlingame, Calif.
- Carpenter, F. Scott, Jr., White Pigments Div., Godfrey L. Cabot, Inc., 77 Franklin St., Boston, Mass.
- Carr, Robert E. (J.), 414 N. High St., Lancaster, Ohio
- Carr-Lowrey Glass Co. (Norman R. Beck), Baltimore 3, Md.
- Carroll, Joseph, Physics Dept., Marquette University, 1131 W. Wisconsin Ave., Milwaukee 3, Wis.
- Carroll, William F., 3499 McNally Ave., Altadena, Calif.
- Carruthers, John L.,*† Lord Hall, Ohio State Univ., Columbus 10, Ohio
- Carter, F. B.,† Tiffin 12, Ohio
- Carter, Gerard T., Horizons, Inc., 2891 E. 79th St., Cleveland, Ohio
- Carter, Herbert D.,*† 3351 Dorchester Rd., Shaker Heights 20, Ohio
- Carter, J. Guild, 190 W. State St., Trenton, N. J.
- Cartwright, S. V., 1224 Victoria Ave., Corona, Calif.
- Casamo, Charles C., Sylvania Electric Products, Inc., Emporium, Pa.
- Case, V. B., Paper Makers Importing Co., Inc., 44 S. Second St., Easton, Pa.
- Case, W. A., & Son Mfg. Co. (Willard G. Young), Robinson, Ill.
- Cassady, Bert L., 5115 S. Lewis Ave., Tulsa 15, Okla.
- Castany, Charles I. (S), 4ta. Ave. N. E., No. 604, Managua, D. N. Nicaragua, Central America
- Casterline, Dale R. (S), 243 Imperial Ave., Painted Post, N. Y.
- Cather, Helen F., Box 2372, Laguna Beach, Calif.
- Caton, Milton W., 22490 Nevada Ave., East Detroit, Mich.
- Cauthorn, James E. (S), R. R. 4, Mexico, Mo.
- Cavanaugh, D. J.,† 822 32nd St., Parkersburg, W. Va.
- Cawood, Richard L., East Liverpool, Ohio
- Cayford, James M.,† Glascote Products, Inc., 20900 St. Clair Ave., Cleveland 17, Ohio
- Cecil, Paul S., c/o Seaport Metals, Inc., 28-20 Borden Ave., Long Island City 1, N. Y.
- Central Glass & Ceramic Res. Institute (Atma Ram), Jadavpur College, Calcutta 32, India
- Central Silica Co. (E. C. Sawyer), 806 Market St., Zanesville, Ohio
- Ceramic Assn. of Japan, Yogyo Kyokwai, 7, Shiba-Nishikubo-Sakuragawacho, Minato-ku, Tokyo, Japan
- Ceramic Color & Chemical Mfg. Co. (W. F. Wenning), Box 297, New Brighton, Pa.
- Cermak, Frank,* 1542 Union St., Schenectady 8, N. Y.
- Cerny, Joseph J., 5226-28 W. 26th St., Chicago 50 (Cicero), Ill.
- Cerulli, Nicholas F. (S), 267 Upson Lane, University Heights, New Brunswick, N. J.
- Chadeyron, A. A. G., Cleveland Magnesite & Refractory Co., Ltd., Normanby Brickworks, Normanby, Middlesbrough, York, England
- Chamberlain, James M. W., Box 350, Akron 9, Ohio
- Chambers, Gordon H., 18 W. Chelton Ave., Philadelphia 44, Pa.
- Chambers, J. Fred, National Gypsum Co., Luckey, Ohio
- Champion Spark Plug Co., Ceramic Div. (Frank H. Riddle), 8525 Butler Ave., Detroit 11, Mich.
- Chandler, Keith B., 3160 W. 106th St., Cleveland 11, Ohio
- Chantler, L. W., Standard Lime & Stone Co., Millville, W. Va.
- Chapman, Frank E., Jr. (S), 5905 Hamilton Ave., Baltimore 6, Md.
- Charbonnier, William P., Walsh Refractories Corp., 101 Ferry St., St. Louis 7, Mo.
- Charland, Tel L. (S), Air Force Project, Box 722, Alfred, N. Y.
- Chase, Dana,* 360 N. Michigan Ave., Chicago 1, Ill.
- Chase, Harry K., 4040 Lakeshore Ave., Oakland, Calif.
- Chattanooga Glass Co. (Joe G. Venable), Chattanooga 10, Tenn.
- Chatterjee, Akhil Chandra, Messrs. Burn & Co. Ltd., Raniganj Dist., Burdwan, India
- Chaumeil, Frederic, Verreries de Bagneaux et Appert Ferres, Bagneaux s/Loing, Seine et Marne, France
- Chesler, Isidor, 710 E. 14th St., New York 9, N. Y.
- Chester, A. E., Promat Div., Poor & Co., 851 S. Market St., Waukegan, Ill.
- Chesters, John H.,* United Steel Co., Ltd., Research & Development Dept., "Swinden House," Moorgate, Rotherham, York, England
- Chicago Hardware Foundry Co. (G. O. Claeysens), North Chicago, Ill.
- Chicago Pottery Co. (J. S. Clifford), 1920 Clybourn Ave., Chicago 14, Ill.
- Chicago Vitreous Enamel Product Co. (William Hogenson), 1427 S. 55th Court, Cicero 50, Ill.
- Chilcote, Joseph H., 1907 16th St. N., Arlington 1, Va.
- Child, J. L., Hancock Brick & Tile Co., Box 59, Findlay, Ohio
- Childs, Clayton G., (S), 2321 S. York St., Owensboro, Ky.
- Childs, Edwin E., Jr., (J), Owings Mills, Md.
- Childs, H. W., United Feldspar & Minerals Corp., West Paris, Me.
- Ching, Tung Rey (S), 1008 W. Oregon, Urbana, Ill.
- Chiochetti, Vincent, 32 Oak Square, South Attleboro, Mass.
- Chisholm, Boyd & White Co. (B. T. Brennan), 610 W. 57th St., Chicago 21, Ill.
- Chiu, Hung-Wen, 204 Hudson Ave., Newark, Ohio
- Chormann, O. I., 195 Gregory Hill Rd., Rochester, N. Y.
- Christensen, Carl J., College of Mines & Mineral Industries, Univ. of Utah, Salt Lake City, Utah
- Christensen, Chr., Den Kongelige Porcelainsfabrik & Fajancefabriken Aluminia A/S, Smallegade 45, Copenhagen F., Denmark
- Christie, Leonard D., Jr., 343 Sound Beach Ave., Old Greenwich, Conn.
- Christman, Brian B., 25 Eggert Ave., Metuchen, N. J.
- Christman, C. E., Federal Enameling & Stamping Co., Pittsburgh, Pa.
- Christman, H. M.,† 1023 Roosevelt, N. E., Massillon, Ohio
- Christopher, A. B., Chambers Bros. Co., 52 & Media, Philadelphia, Pa.
- Chu, Gordon P. K. (S), Res. Lab., Pfaucler Co., 1000 West Ave., Rochester 3, N. Y.
- Chun, Lee, 230 Prince Edward Rd., Kowloon, Hongkong, China
- Chung, Heung-Sung, Messrs. Yick Lee, 128 Bonham Strand East, Hong Kong, China
- Cichowski, Val J., The Fusite Corp., 6000 Fernview Ave., Cincinnati, Ohio
- Ciprari, John L. (S), Box 1040, Ga. Tech. Atlanta, Ga.
- Claeysens, G. O., Chicago Hardware Foundry Co., North Chicago, Ill.
- Clare, Robert L.,*† 212 Rector St., Perth Amboy, N. J.
- Clark, Alec W., Beatson, Clark & Co., Ltd., Rotherham, England
- Clark, C. Burton, 113 DeArment Parkway, Pittsburgh 28, Pa.
- Clark, Horace N., Refractory & Insulation Corp., 120 Wall St., New York 5, N. Y.
- Clark, John D.,† 656 Lindley Rd., Glenside, Pa.
- Clark, John R., Jr., Washington Brick Co., Muirkirk, Md.
- Clark, Keith R., 120 Mains Ave., Apt. 2, Syracuse 7, N. Y.
- Clark, Richard E.,† The Sparta Ceramic Co., East Sparta, Ohio
- Clark, Roland J., Precision Grinding Wheel Co., Inc., 8301 Torresdale Ave., Philadelphia 36, Pa.
- Clark, Thaddeus J. E., 113 Elmore Ave., Trenton 9, N. J.
- Clarke, Ford K., Philco Corp., Church Rd., Lansdale, Pa.
- Claus, Carl, Jr., Babcock & Wilcox Co., 161 E. 42nd St., New York 17, N. Y.
- Claus, Karl M., 298 Main St., Matawan, N. J.
- Claycraft Co., Box 866, Columbus 16, Ohio
- Claypoole, Stewart A., R.R. 2, Painted Post, N. Y.
- Cleaves, George A., 198 High St., Reading, Mass.
- Clem, A. H., Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 7, Pa.
- Clemens, August, Jr., 205 E. Gittings Ave., Baltimore 12, Md.
- Clemens, Eugene C.,† Cannelton Sewer Pipe Co., Cannelton, Ind.
- Cleveland Museum of Art, William M. Milliken, Cleveland 6, Ohio
- Cleveland, Theodore K., Sixth & Grayson Sts., Berkeley 10, Calif.
- Clevenger, Thomas R. (S), U.S.S. Elokomin A.O.-55, F.P.O., New York, N. Y.
- Cleverly, Robert B., American Vitriified Products Co., Box 364, Sta. A, East Liverpool, Ohio
- Clews, Francis H., British Ceramic Research Assn., Queens Rd., Penkhull, Stoke-on-Trent, England

Clifford, J. S., Chicago Pottery Co., 1920 Clybourn Ave., Chicago 14, Ill.
 Clift, Robert E., Jr., Cove Rd., Stonington, Conn.
 Cline, I. R., Western Brick Co., Danville, Ill.
 Cline, Robert W., 377 Main St., East Aurora, N. Y.
 Clingan, J. R. T., Niles Fire Brick Co., 165 E. Park Ave., Niles, Ohio
 Clipper Diamond Tool Co., Inc. (Joseph Klipper), 21 W. 46th St., New York 36, N. Y.
 Close, Paul, Box 1035-6, Toledo, Ohio
 Clough, Philip J., National Research Corp., 70 Memorial Dr., Cambridge 42, Mass.
 Coates, Bill,* Coates Co., Box 935, Austin, Texas
 Coble, Robert L. (S), Room 2-067, Massachusetts Institute of Technology, Cambridge, Mass.
 Cocanougher, Robert S., 346 Claremont Ave., Jersey City 5, N. J.
 Coen, Bernard, Woodbridge Sanitary Pottery Corp., 500 Green St., Woodbridge, N. J.
 Coffeen, William W., 1024 Boulevard, Westfield, N. J.
 Coffey, L. Wallace, Battelle Memorial Institute, 505 King Ave., Columbus 1, Ohio
 Coffman, William N., Keystone Abrasive Wheel Co., Carnegie, Pa.
 Cogen, Saul, Davidson Brick Co., 4701 Floral Dr., Los Angeles 22, Calif.
 Cohen, Aaron, Box 405, Willamina, Ore.
 Cohen, Arthur E., Sylvania Electric Products, Inc., Cottage Place, Mineola, N. Y.
 Cohen, Bernard, 20 Seneca Manor Dr., Seneca Falls, N. Y.
 Cohen, Joseph (S), 13044 Cedar Rd., Cleveland, Ohio
 Colcord, John E. (S), 29 S. St. Pauls Rd., Hempstead, N. Y.
 Cole, G. Percy, Dominion Glass Co., Ltd., Box 190, Montreal, Que., Canada
 Cole, Sandford S.,*† Titanium Alloy Div., National Lead Co., Box 58, South Amboy, N. J.
 Cole, Sandford S., Jr. (J), 3923 La Salle, Indianapolis, Ind.
 Coleman, Caruthers A., 113 Cheapside, Lexington, Ky.
 Coleman, J. C., 3746 Mapleway Dr., Toledo 14, Ohio
 Coleman, Robert L.,† 467 Dogwood, Park Forest, Chicago Heights, Ill.
 Coleman, Thomas B., 635 Tarboro St., Rocky Mount, N. C.
 Collins, Paul F.,† Microcast Div., Austenal Labs., Inc., 7001 S. Chicago Ave., Chicago 73, Ill.
 Collins, Robert, 151 Hackensack St., East Rutherford, N. J.
 Collins, William G.,† Johns Manville Corp., Waukegan, Ill.
 Colonial Insulator Co. (R. W. Hemphill), 945 Grant St., Akron 11, Ohio
 Colosky, Benjamin P. (J), 137 Ford Ave., Fords, N. J.
 Colucci, George M., 2459 S. Seneca Ave., Alliance, Ohio
 Columbia Fire Brick Co. (M. L. Hamaker), First National Bank Bldg., Canton 2, Ohio
 Columbia-Southern Chemical Corp. (R. W. Miller), 420 Ft. Duquesne Blvd., Pittsburgh 22, Pa.
 Comeforo, J. E., Box 141, Norris, Tenn.
 Commercial Decal, Inc. (Alfred Dührssen), East Liverpool, Ohio
 Commercialores, Inc. (Henry S. Doty), 39 Cortlandt St., New York 7, N. Y.
 Commons, Charles H., Jr.,*† Foote Mineral Co., Berwyn, Pa.
 Compagnucci, Julius P., The Bay Ridge Specialty Co., Inc., Trenton 6, N. J.
 Compania Mexicana De Refractarios, A. P. Green, S. A. (H. Fetter), Tlalnepantla, Apartado No. 71-Bis, Mexico 1, D. F. Mexico
 Conard, John B., 600 Hawthorne Lane, Mansfield, Ohio
 Condon, Edward U., 140 High Rd., Corning, N. Y.
 Cone, Carroll, 1387 Virginia Ave., Columbus 12, Ohio
 Conn, Willi' M., 6312 Indiana Ave., Kansas City 5, Mo.
 Connell, George A., Pacific Coast Borax Co., Box 9128 Station "S," Los Angeles 5, Calif.
 Connelly, Daniel S., 2801 N. Park Blvd., Cleveland Heights 18, Ohio
 Conover, Ray C.,† Gladding, McBean & Co., 2901 Los Feliz Blvd., Los Angeles 39, Calif.
 Conrad, Charles E., Jr., Libbey-Owens-Ford Glass Co., 1701 E. Broadway, Toledo 5, Ohio
 Conrad, Keith, Owens-Illinois Glass Co., 1700 N. Westwood, Toledo, Ohio
 Conroe, Barden A. (J), 60 E. Fourth St. Corning, N. Y.
 Consolidated Glass Works, Ltd., (I. Donen), Box 562, Germiston, Transvaal, South Africa
 Constans, Eldon G., 305 E. 11th Ave., Apt. 1, Columbus 1, Ohio
 Consumers Glass Co., Ltd., (John N. Jordan), Box 456, Sta. B, Montreal, Que., Canada
 Contardi, William A.,† 45 Chester Circle, New Brunswick, N. J.
 Cook Mfg. Co. (Edgar H. Freeman), Box 157, Walnut, Calif.
 Cook, Eugene M., 509 Broadlawn Terrace, Vineland, N. J.

Cook, Herman L.,* 1555 Beardsley Ave., Muskegon, Mich.
 Cook, Leslie J., 1621 Reliez Valley Rd., Lafayette, Calif.
 Cook, Ralph L.,* 204 Ceramics Bldg., University of Illinois, Urbana, Ill.
 Cook, W. Howard, Box 131, Norris, Tenn.
 Cooke, David C.,† (J), 25 Chestnut St., Haddonfield, N. J.
 Cooke, Robert S., Industrial Centre #5, Quebec, Que., Canada
 Cooke, William C., Blue Ridge Glass Corp., Kingsport, Tenn.
 Coombs, W. M., Owens-Illinois Glass Co., Bridgeton Plant No. 14, Bridgeton, N. J.
 Cooper, Alfred R., 156 Dauntless Lane, Hartford, Conn.
 Cooper, George I., 401-Mackley Apts., Philadelphia 24, Pa.
 Cooper, Walter W., Dow Chemical Co., Midland, Mich.
 Cooper, William G., 2716 Eldorado St., Apt. D., Torrance, Calif.
 Coors Porcelain Co. (H. W. Ryland), Golden, Col.
 Cope, William E., Barclay Machine, Inc., Box 146, Sebring, Ohio
 Copeland, G. G., Golding Keene Co., Keene, N. H.
 Corbett, Keith T. (S), 22-F Verville, Raleigh, N. C.
 Corbett, Paul M., Dept. of Chemical Engr., University of Toronto, Toronto, Ont., Canada
 Corbman, Morris, Glen Gary Shale Brick Corp., Van Reed Rd., Wyomissing, Pa.
 Cordes, John E., 2017 Sheridan Ave. S., Minneapolis 5, Minn.
 Corhart Refractories Co., Inc. (Frederick S. Thompson), 16th & Lee Sts., Louisville 10, Ky.
 Corning Glass Works (J. T. Littleton), Corning, N. Y.
 Cornish, Frank L., Corning Glass Works, Charleroi, Pa.
 Cornwell, George L., 171 Eiseman, Kenmore 17, N. Y.
 Corson, Robert (S), 4 Daniel St., Seneca Falls, N. Y.
 Corwin, Rudolph E., Applied Physics Lab., 1013 E. 40th St., Seattle 5, Wash.
 Cote, A. U., Cooksville Co., Ltd., Cooksville, Ont., Canada
 Cotton, Nigel, Elijah Cotton Ltd., Nelson Pottery, Hanley, Stoke-on-Trent, Stafford, England
 Cotton, Robert A., General Refractories Co., 1180 E. Broad St., Elizabeth, N. J.
 Couch, Albert H.,† Libbey-Owens-Ford Glass Co., 1701 E. Broadway, Toledo 5, Ohio
 Coughanour, L. W., 5515 Oakmont Ave., Bethesda 14, Md.
 Counts, Jack E., 9506 Gorman Ave., Cleveland, Ohio
 Counts, William E., 1649 Euclid Ave., Flint, Mich.
 Courter, R. F., Globar Div., Carborundum Co., Niagara Falls, N. Y.
 Courtney, Scott J., B. F. Drakenfeld & Co., 45-47 Park Place, New York 7, N. Y.
 Courtright, John H. (S), Box 257, Alfred, N. Y.
 Covan, H. E., 400 20th Ave., Columbus, Ohio
 Cowan, J. G., "Roselands," Billington, Haughton, Stafford, England
 Cowan, R. Guy,* 416 Brooklea Dr., Fayetteville, N. Y.
 Cowan, Robert E. (S), 903 W. Green St., Urbana, Ill.
 Cowell, J. Robert, Jr., Woodville Lime Products Co., 2140 Jefferson Ave., Toledo 2, Ohio
 Cowling, Kenneth W., 79 Norwood Rd., Sheffield 5, England
 Cox, Edwin H., 20111 Wickfield Ave., Cleveland 22, Ohio
 Cox, John E. (S), The Horse Head Inn, Palmerton, Pa.
 Cox, Paul E.,* 520 N. Tenth St., Baton Rouge 8, La.
 Cox, Samuel F., Pittsburgh Plate Glass Co., Research Lab., Creighton, Pa.
 Cox, Shaun M., J. A. Jobling & Co., Ltd., Wear Glass Works, Sunderland, Durham, England
 Coy, John J., Gen. Del., Oakville, Ont., Canada
 Craft, R. S., Findlay Clay Products Co., Washington, Pa.
 Craig, Bruce G., 2706 N. 40th, Milwaukee, Wis.
 Craig, David M., Jr., 420 Ft. Duquesne Blvd., Pittsburgh 22, Pa.
 Craig, James E., 1055 Allison Ave., Washington, Pa.
 Craig, James W., Canadian Refractories, Ltd., 1050 Canada Cement Bldg., Montreal 2, Que., Canada
 Craig, John D., Jr., Pennsylvania Pulverizing Co., 1418 Trenton Trust Bldg., Trenton 8, N. J.
 Cramer, W. E.,*† Industrial Ceramic Products, Inc., 965 W. Fifth Ave., Columbus 8, Ohio
 Crandall, Eugene R.,† 258 Gulf St., Milford, Conn.
 Crandall, James R.,† 4514 Chestnut St., Bethesda 14, Md.
 Crandall, William B., Box 707, Alfred, N. Y.
 Crandon, A. S., American Window Glass Co., 9 W. Park Way, Pittsburgh 12, Pa.
 Crane Co. (W. M. Hamilton), Chattanooga Div., Chattanooga, Tenn.
 Crane, Robert F., Country Club Estates, Kittanning, Pa.
 Crawford, George E.,*† 221 Sumner Ave., New Castle, Pa.
 Crawford, George S., Research Council of Alberta, University of Alberta, Edmonton, Alta., Canada
 Crawford, J. C., Jr., Johns-Manville Sales Corp., 22 E. 40th St., New York 16, N. Y.
 Crawford, J. L.,* 740 Brittany Lane, University City 24, Mo.

Creed, Michael B., 63 Marvel Rd., New Haven, Conn.
 Creson, Walter F., Babcock, & Wilcox Co., 1220 National City Bank Bldg., Cleveland 14, Ohio
 Cress, William C., Carolina Ceramics, Inc., R. R. 3, Columbia, S. C.
 Cressy, Morton, Hartford-Empire Co., 333 Homestead Ave., Hartford 2, Conn.
 Crider, Paul H., 179 Howard St., Pittsburgh 35, Pa.
 S. A. Cristalerias Del Uruguay (Francisco J. Gercar), Comercio 1491, Montevideo, Uruguay
 Crockett, William E., 1215 N. Arlington Ave., Indianapolis, Ind.
 Cronin China Co., Minerva, Ohio
 Cronin, David L., Univis Optical Corp., Box 717, Guayama, Puerto Rico
 Cronin, Leo J., 56 MacArthur Rd., Natick, Mass.
 Cronin, Neil E., Cronin China Co., Minerva, Ohio
 Cronin, W. Kress, Minerva, Ohio
 Croninger, George J., A. J. Wahl, Inc., Brocton, N. Y.
 Cronn, Eduard, Steingutfabrik Schwarzwald, G.M.B.H., Hornberg (Schwarzwaldbahn), Germany
 Crook, Charles E., Los Angeles Chemical Co., 1960 Santa Fe Ave., Los Angeles 21, Calif.
 Crookston, James A., 28 Alton Dr., Pittsburgh 34, Pa.
 Crooksville China Co. (Harry J. Bennett), Crooksville, Ohio
 Croom, Milton M., 201 1/2 Groveland Ave., Raleigh, N. C.
 Crosby, Donald P. (J.), Harbison-Walker Refractories Co., Fulton, Mo.
 Croskey, Carl D., 2061 Morrow Ave., Schenectady 9, N. Y.
 Cross, A. H. B., The Brown-Firth Research Lab. Princess St., Sheffield 4, York, England
 Crossan, W. A., The Metropolitan Brick, Inc., 1017 Renkert Bldg., Canton 2, Ohio
 Crossley Machine Co. (William J. Harris), Trenton 9, N. J.
 Crowe, Samuel H. Jr., 300 Jefferson Ave., Crystal City, Mo.
 Crowley, Henry L., 1 Central Ave., West Orange, N. J.
 Crowley, Michael S. (S.), 127 Dogwood St., Park Forest, Ill.
 Cruikshank, C. L., Great Lakes Foundry Sand Co., 720 United Artists Bldg., Detroit 26, Mich.
 Cummins, Arthur B., Morning Glory Rd., Bound Brook, N. J.
 Cummins, Robert K., General Electric Co., 1133 E. 152nd St., Cleveland 10, Ohio
 Cunliffe, J. A., 266 Seventh St., Medicine Hat, Alta, Canada
 Curcio, Anthony L., 21 Church St., Bound Brook, N. J.
 Curran, Edward, Engineering, Ltd., (D. Ryan), Cardiff, Wales
 Curran, Martin T. (S), Box 562, Alfred, N. Y.
 Curran, Robert, 75-08 35th Ave., Jackson Heights 72, N. Y.
 Curtis, A. B., Johns-Manville Sales Corp., 832 Fisher Bldg., Detroit, Mich.
 Curtis, Carl E., 404 W. Vanderbilt Dr., Oak Ridge, Tenn.
 Curtis, William H. Jr. (S), 59 Crosby St., Hornell, N. Y.
 Curtis, R. M., American Potash & Chemical Corp., 122 E. 42nd St., New York 17, N. Y.
 Cuthill, John R., Enameled Metals Section, National Bureau of Standards, Washington 25, D. C.
 Cutler, Ivan B., 220 Mines Bldg., University of Utah, Salt Lake City 1, Utah
 Czarnecki, Kamil B., 75 Queen's Gate, London, S. W. 7, England
 Czechoslovak Ceramic and Glass Society, R. Barta, Praha XIX, Technicka ul.c. 5, Czechoslovakia

D

D'Adrian, Vincent L. D., 7823 Kenridge Lane, Shrewsbury 19, Mo.
 Dager, Probert W.,* 14743 Morrison St., Van Nuys, Calif.
 Dale, Alfred J., Johnson Bros. (Hanley) Ltd., Stoke-on-Trent, England
 Daley, Frank E., Godfrey L. Cabot, Inc., 769 Independence Ave., Trenton 10, N. J.
 Dalton, Robert H., 234 Delevan Ave., Corning, N. Y.
 Daly, Howard J., Jr. (S), 920 James Ave., Niagara Falls, N. Y.
 Damerell, Marguerite, Exton, Pa.
 Danielson, P. R.,* Metal & Thermit Corp., Carteret, N. J.
 Danks, William H., 216 Mississippi Ave., Crystal City, Mo.
 Darby, George M., 61 Washington Ave., Westport, Conn.
 Darrah, W. A., 901 N. Oak Park Blvd., Oak Park, Ill.
 Das Gupta, A. K., Solar Mfg. Corp., 2903 E. Slauson, Huntington Park, Calif.
 Daumke, Arthur H., 4451 N. California Ave., Chicago 25, Ill.
 Dawwalter, A. C., W. S. Dickey Clay Mfg. Co., 607 Commerce Trust Building, Kansas City 6, Mo.
 Davey, Earl R., Canadian Ohio Brass Co., Ltd., Niagara Falls, Ont., Canada
 Davey, Frederick K., Ashland Rd., Cockeysville, Baltimore County, Md.
 Davies, Chester A., Park Lake Ave., Titusville, N. J.
 Davies, Edward G., Dominion Glass Co., Ltd., Wallaceburg, Ont., Canada

Davies, Thomas H., Mellon Institute, Fifth Ave., Pittsburgh, Pa.
 Davis Fire Brick Co. (D. D. Davis), Oak Hill, Ohio
 Davis, D. D., Davis Fire Brick Co., Oak Hill, Ohio
 Davis, Earl K., Bausch & Lomb Optical Co., Rochester, N. Y.
 Davis, Harry E.,* Universal Potteries, Inc., Cambridge, Ohio
 Davis, H. M., Mineral Industries Bldg., State College, Pa.
 Davis, James K., 211 Walnut St., Elmira, N. Y.
 Davis, N. B., Rm. 512, 140 Wellington St., Ottawa, Ont., Canada
 Davis, Sam H., Jr., 808 N. Howard, Robinson, Ill.
 Davison, Albert W., 1199 Moundview Ave., Newark, Ohio
 Day, Arthur L. (Honorary), 9113 Old Georgetown Rd., Bethesda 14, Md.
 Day, Charles M., 796 Arcade Bldg., 812 Olive St., St. Louis 1, Mo.
 Day, Frank, Jr., Corning Glass Works, Corning, N. Y.
 Day, Jack F., 835 Forest Ave., Zanesville, Ohio
 Day, Ralph K.,* Libbey-Owens-Ford Glass Co., 1701 E. Broadway, Toledo 5, Ohio
 Day, Robert B., 516 S. Walnut St., Brazil, Ind.
 Deadwyler, Earnest W. (S), 61 Winthrop Rd., Columbus 14, Ohio
 Dear, Paul S.,* Box 205, Blacksburg, Va.
 DeArman, C. R., The Bristol Co., Waterbury 20, Conn.
 de Azevedo, Marcello R. V., R. Peixoto Gomide 427, Bairro Bela Vista, São Paulo, Brazil
 Debenham, William S.,* United States Steel Corp., 525 William Penn Place, Pittsburgh 30, Pa.
 Deeth, H. R., American Nepheline Corp., Lakefield, Ont., Canada
 de Felice, Ralph, 7 Bayside Dr., Great Neck, Long Island, N. Y.
 Deignan, Charles J., 120 N. Everett Ave., Columbus, Ohio
 Delahoy, David L., 8610 Bollier Ave., Niagara Falls, N. Y.
 de Leeuw, Peter, Central Post Office Box 323, Tokyo, Japan
 Delgado, Cyril B., 55 W. 42nd St., New York 18, N. Y.
 DeLong, Hermon W., III, 67 Main St., Dansville, N. Y.
 Demaison, R. J., Quigley Co., Inc., 527 Fifth Ave., New York 17, N. Y.
 DeMaria, Vincent C., 10 Teamster Lane, Levittown, N. Y.
 Deming, William S., Jr., C. Tennant & Sons of New York, 100 Park Ave., New York 17, N. Y.
 Demongeot, Henri, Interkiln Corp., 415 Lexington Ave., New York 17, N. Y.
 Demuth Glass Works, Inc. (Willard B. Midgette), Box 629, Parkersburg, W. Va.
 Deenen, W. F., North Carolina Feldspar Corp., Erwin, Tenn.
 Denero, John V. (S), Box I-9, Alfred, N. Y.
 The Denison Engineering Co., (W. C. Denison), 1160 Dublin Rd., Columbus 16, Ohio
 Denison, George W.,* Box 1776, Cleveland 5, Ohio
 Denison, Norman E., Ohio Clay Co., Box 1776, Cleveland 5, Ohio
 Denison, W. C., The Denison Engineering Co., 1160 Dublin Rd., Columbus 16, Ohio
 Den Kongelige Porcelainsfabrik & Fajancefabriken Aluminia A. S. (Chr. Christensen), Smallegade 45, Copenhagen F., Denmark
 Denman, Cedric E., Great Bend Brick & Tile Co., Inc., Box 53, Great Bend, Kan.
 Denny, Katherine, 1407 E. 45th, Seattle 5, Wash.
 deProse, Victor A., 26431 Park Lawn Dr., Euclid 17, Ohio
 DeRemer, John W., 501 Arizona Dr., New Kensington, Pa.
 Derge, Gerhard, Carnegie Institute of Technology, Pittsburgh 13, Pa.
 Deringer, W. A., A. O. Smith Corp., 3533 N. 27th St., Milwaukee, Wis.
 deRoux, Juan R. (J), Box 1486, Panama, Rep. of Panama
 Desaix, Herbert A.,* 122 Jefferson Park Dr., Huntington, W. Va.
 Desenne, Claude M. (J), Cote de l'Eglise, Boischatel, Co. Montmorency, P. Q., Canada
 Desjardins, Gregory T., Foster, Ky.
 Detamore, Walter A., Barium Reduction Corp., South Charleston 3, W. Va.
 Deurvorst, F. B. M., Het Zonnehuis, Terborg, Holland
 Deutsche Glastechnische Gesellschaft, H. Maurach, Untermainkai 12, Frankfurt A. M., Germany
 Deutsche Keramische Gesellschaft, Mr. Knauf, Poppelsdorferallee 15, Bonn, Germany
 Deutscher, Jerome S., (J), 525 W. Buist, Phoenix, Ariz.
 de Vasconcellos, Antonio, Ceramica Martini S/A Rua Luiz Martini, s/nº, Mogi Guacu, Est. de S. Paulo, Brazil
 DeVilbiss Co. (E. F. Frey), Toledo 1, Ohio
 DeVoe, Charles F., 38 W. Fourth St., Corning, N. Y.
 Devol, Lee, Hamilton Watch Co., Lancaster, Pa.

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Dew, Robert J., Jr., c/o Research Dept., American Lava Corp., Chattanooga, Tenn.

Dewey, B. F., 42 Summit St., LeRoy, N. Y.

Dexheimer, E. C., 917 Country Club Dr., St. Louis 2, Mo.

Diamond Alkali Co. (L. T. Welshans), Painesville, Ohio

Diamond, Grant S.,† Electro Refractories & Abrasives Corp., 344 Delaware Ave., Buffalo 2, N. Y.

Diaz, Jose J.,† Fabrica Nacional Loza de Penco, Penco, Chile

Dick, Clarence H., Gordon St., Natrona Heights, Pa.

Dick, Edward F., Westinghouse Electric Co., Horseheads, N. Y.

Dickas, Charles H., 1524 Sunset Rd., Chattanooga, Tenn.

Dickens, H. A., Nilsen Porcelains (Aust.) Pty., Ltd., 221 Separation St., Northcote, Victoria, Australia

Dickey, Herbert R., 26 Regent St., St. Thomas, Ont., Canada

Dickey, John M., Jr.,† 179 Franklin Ave., Brookville, Pa.

Diener, Leonard W., Cuthbert & Park Ave., Collingswood, N. J.

Dietert, Harry W., 9330 Roselawn Ave., Detroit 4, Mich.

Dietrich, Waldemar F., 1230 29th St. N.W., Washington 7, D. C.

Dietterle, Edwin W., 3834 Monteith Dr., Los Angeles 43, Calif.

Dietzel, Adolf, Max-Planck-Institut für Silikatforschung, Wurzburg, Germany, Neunerplatz 2

Dilks, Bartram H., Jr., 604 Highland Ave., Latrobe, Pa.

Dillender, Richard D. (S), Box 5786, Raleigh, N. C.

Dilliard, Paul D., 1313 E. Wheeling St., Lancaster, Ohio

Dillon, Zale, 56 Riverlawn Dr., Fair Haven, N. J.

Dingledine, H. F., National Sewer Pipe Co., Ltd., 330 Wentworth St. N., Hamilton, Ont., Canada

Dingledy, David, R.R. 3, Newark, Ohio

Dingler, Edward L., Jr., Box 363, Birmingham, Mich.

Dingwall, Andrew, 325 Spring St., New York 13, N. Y.

Dippell, L. V., 17 Second Ave., Tiffin 9, Ohio

Dirats, Elwyn, 120 W. Silver St., Westfield, Mass.

Distillator, Philip R., Jackson Vitrified China Co., 2 West St., Pelham Manor 65, N. Y.

Dithridge, Edward H., 60 Bedford St., Port Hope, Ont., Canada

Dixon, Anna Lane, 815 N. Fourth St., Burlington, Iowa

Dixon, Gene, Kyanite Mining Corp., Cullen, Va.

Dixon, Joseph, Crucible Co. (W. R. Wyckoff), 167 Wayne St., Jersey City, N. J.

Dlugozima, W. R.,† Box 332 Station A, East Liverpool, Ohio

Dobbins, Norman E., Box 117, Vereeniging, Transvaal, South Africa

Dodd, Charles M.,† Dept. of Ceramic Engineering, Iowa State College, Ames, Iowa

Dodge, Alfred W., Hazel-Atlas Glass Co., 126 Market St., Zanesville, Ohio

Dodson, W. E., Fire Brick Service & Supply, 900 E. 72nd St., Cleveland 3, Ohio

Doll, Charles E., Mt. Clemens Pottery Co., Mt. Clemens, Mich.

Dominion Minerals, Inc. (V. V. Kelsey), Piney River, Va.

Donahay, John W.,† Waynesborough Rd., Paoli, Pa.

Donen, I., Consolidated Glass Works, Ltd., Box 562, Germiston, Transvaal, South Africa

Doney, Louis M., R. R. 1, Powell, Tenn.

Donnenwirth, A. L.,† 522 E. Second St., Jamestown, N. Y.

Dora, Joseph C.,† 3246 W. 62nd Pl., Chicago, Ill.

Doran, Robert F.,† Sylvania Electric Products, Inc., Cottage Pl., Mineola, N. Y.

Dore, James E. (J), 2518 W. Euclid, Spokane 13, Wash.

Dorf, Arthur L. (S), 249 S. Pugh St., State College, Pa.

Dorn, G. Neal,† 1015 Kemp Ave., Ironton, Ohio

Dorney, Andrew W. (S), 32 Spalding Dr., Corning, N. Y.

Dorsett, O. A., Knox Porcelain Corp., Knoxville, Tenn.

Dorsey, Baird L., 300 Walnut Rd., Pittsburgh 2, Pa.

Dorsey, John J. (J), 385 Good Ave., Indianapolis 19, Ind.

Doty, Henry S., Commercialores Inc., 39 Cortlandt St., New York 7, N. Y.

Dougan, C. W., 2025 Bellevue Dr., Glendale 1, Calif.

Dougherty, Leon A., 370 North St., Sun Prairie, Wis.

Dougherty, Sylvester J., Metallurgical Dept., Weirton Steel Co., Weirton, W. Va.

Dougherty, W. E.,* 1625 Barr Ave., Pittsburgh 5, Pa.

Douglas, John, Co. (A. J. Raible), Cincinnati 16, Ohio

Douglas, Richmond, Douglas Firebrick Co., Ltd., Dalry, Ayrshire, Scotland

Dowling, Robert F., Bausch & Lomb Optical Co., Glassmaking Dept., 635 St. Paul St., Rochester, N. Y.

Drake, Arthur D., The Claycraft Co., Box 866, Columbus 16, Ohio

Drake, Mary, The Evans Glass Co., 21 East St., North Attleboro, Mass.

Drake, M. Ellis, Alfred University, Alfred, N. Y.

Drakenfeld, B. F., & Co. (Scott J. Courtney), 45-47 Park Place, New York 7, N. Y.

Draker, Harry C., 24230 Maplewood Dr., Euclid 17, Ohio

Drammens Glassverk, (Ragnar Tanberg), Drammen, Norway

Draper, Perry E., Mansfield Sanitary Pottery, Inc., Perrysville, Ohio

Dressler, Philip,† Swindell-Dressler Corp., Box 1888, Pittsburgh 30, Pa.

Drouhard, W. J., Mansfield Sanitary Pottery, Inc., Perrysville, Ohio

Drucker, Julius, Farbenfabriken Bayer, Krefeld-Uerdingen 22, Germany

DuBois, H. B.,† Consolidated Feldspar Dept., International Minerals & Chemical Corp., Erwin, Tenn.

DuBois, Harold V., 4147 159th, Lawndale, Calif.

Dubovick, Walter A., Engineered Precision Casting Co., Box 68, Matawan, N. J.

Duckworth, Winston,† Battelle Memorial Institute, 505 King Ave., Columbus, Ohio

Duevel, Charles O., Jr., American Thermos Bottle Co., Norwich, Conn.

Duff, R. D., 4318 Commonwealth, Toledo, Ohio

Duffy, J. P., Stillwater Clay Products Co., Lock Drawer 32, Uhrichsville, Ohio

Dufour, Jean Leonard, Ceramica Sanitaria Porcelite, Rua Itatnga 291, Caixa Postal 3845, São Paulo, Brazil

Dugan, Robert T. (S), 2703 Rio Grande St., Austin, Texas

Dugan, Stayner A., 1247 Vine St., Abilene, Texas

Duhrssen, Alfred, Commercial Decal, Inc., East Liverpool, Ohio

Duke, John J., Box 33, Saxonburg, Pa.

Dulberg, Irving, 254 N. Allegheny St., Bellefonte, Pa.

Dulin, Francis H. (S), 7728 Westmoreland Dr., Sarasota, Fla.

Dunbeck, Norman J., International Minerals & Chemical Corp., 20 N. Wacker Dr., Chicago 6, Ill.

Duncan, J. Earle, Pittsburgh Plate Glass Co., Research Laboratories, Creighton, Pa.

Duncombe, George H., Jr.,* 150 E. Frambes Ave., Columbus 1, Ohio

Dungan, Robert† (J), 19 O'Connor Ave., Hornell, N. Y.

Dunn, H. E., Vanadium Corp. of America, Bridgeville, Pa.

Dunnican, Ward G., 277 E. Seventh St., Clifton, N. J.

Duplin, V. J., Jr., 300 North Ave., Fanwood, N. J.

du Pont, E. I., de Nemours & Co., Inc. (H. C. Kuchler), Electrochemicals Dept., Wilmington 98, Del.

Durst, William A., 209 Madison St., St. Marys, Pa.

Duwez, Pol, California Institute of Technology, Pasadena, Calif.

Dyre, Warren T., 317 Estaugh Ave., Haddonfield, N. J.

E

Eagle, J. Eugene,*† 3202 McShane Way, Baltimore 22, Md.

Eagle Picher Co. (O. P. Hense), American Bldg., Cincinnati 1, Ohio

Earhart, William H., RCA Engineering Lab., Marion, Ind.

Earl, Fred C. (S), Box 84, Broadalbin, N. Y.

Earl, J. Alfred, 1621 S. El Molino St., Alhambra, Calif.

East, Walter H., 1810 Tamerlane Dr., Glendale 8, Calif.

Easter, George J.,† Electro Refractories & Abrasives Corp., Willett Rd., Buffalo 19, N. Y.

Eck, Bernard J. (J), 1945 S. Glenwood, Springfield, Ill.

Eckel, Harold A., Trinidad Clay Products, Ltd., 44, South Quay, Port of Spain, Trinidad, B.W.I.

Eckley, J. R., Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa.

Economos, George (S), 394 Riverway, Suite 9, Boston, 15, Mass.

Edlin, Vernon, 6731 Paxton Ave., Chicago 49, Ill.

Edson, Sidney P., 20 N. Sixth St., Hudson, N. Y.

Edwards, F. M., Porcelain Products, Inc., Carey, Ohio

Edwards, J. B., 2220 Shorecrest Dr., Box 836, Dallas 1, Texas

Edwards, William R. (S),† 11926 S. Saginaw Rd., Grand Blanc, Mich.

Egerton, Lawson, Bell Telephone Labs., Inc., Murray Hill, N. J.

Eggleston, Myron M.,† Beulah, Mich.

Ehle, Jay C., 251 Buckingham Rd., Rocky River 16, Ohio

Ehlers, G. Milton, 2206 E. Kensington Blvd., Milwaukee 11, Wis.

Ehman, Roy G., 600 S. Allen St., State College, Pa.

Eichenberger, Frederick J., Jr., R.R. 2, Horseheads, N. Y.

Eide, Alwin C., American Zinc Sales Co., Box 327, Columbus 16, Ohio

Eisenberg, Marvin (J), Armour Research Foundation, Technology Center, Chicago 16, Ill.

Eitel, Wilhelm, Institute of Silicate Research, University of Toledo, Toledo 6, Ohio

Eiwen, George E., 1947 Edgemont Dr., E. Petersburg, Pa.

Ekdahl, W. Graydon, Johns-Manville Research Center, Manville, N. J.

Ekholm, L. G.,† 2143 Constitution Blvd., Boston, McKeesport, Pa.
 Elder, J. C., Robertson Mfg. Co., Box 848, Trenton 5, N. J.
 Electric Auto-Lite Co., Spark Plug Div. (Robert Twells), Box 231, Fostoria, Ohio
 Electro Refractories & Abrasives Corp. (Grant S. Diamond), 344 Delaware Ave., Buffalo 2, N. Y.
 Eljer Co., Enamel-Ware Div. (L. A. Bateman), Salem, Ohio
 Ellefson, Bennett S., Sylvania Electric Products, Inc., 208-20 Willets Point Blvd., Bayside, Long Island, N. Y.
 Elliott, A. W., Covered Wagon Ranch, Cloverdale, Calif.
 Elliott, G. F., 800 Rickett Rd., Brighton, Mich.
 Elliott, George, Bonnyside House, Bonnybridge, Stirling, Scotland
 Ellis, Arthur, "Lindenhurst," Adamthwaite Drive, Blythe Bridge, Stafford, England
 Ellis, W. H., Lamb Glass Co., Mt. Vernon, Ohio
 Ellison, Henry W., 12 E. Third St., Corning, N. Y.
 Ellison, R. W., 1551 E. Loma Alta Dr., Altadena, Calif.
 Elmer, Jack T., 14384 Lenray Lane, Los Gatos, Calif.
 Elmer, Thomas H., 219 E. High St., Painted Post, N. Y.
 Elosua, Bernardo, Apt. 360, Monterrey, N. L., Mexico
 Elston, Keith,† Hawthorne St., Lenox, Mass.
 Ely, William G., Pittsburgh Plate Glass Co., 2300 Grant Bldg., Pittsburgh 19, Pa.
 Emanuel, E. C., Armstrong Cork Co., Research Labs., Lancaster, Pa.
 Emhiser, Donald, 1105 Eighth Ave., Brackenridge, Pa.
 Emison, M. Hershel, Corning Glass Works, Charleroi Div., Charleroi, Pa.
 Emley, William S., West Maitland Lane, R.R. 3, New Castle, Pa.
 Emmerich, Liberata, Pennsylvania State College, Mineral Industries Library, State College, Pa.
 Emrich, Allen H. (S), 1799 Franklin Ave., Columbus, Ohio
 Emrich, Emerson W.,† R. T. Vanderbilt Labs., East Norwalk, Conn.
 Emrich, Harold W. (S),† 1361 Utica St., Denver, Col.
 Enberg, Christer, Tegellaboratoriet (Brick Lab.), Exp. Sta. of the Royal Swedish Academy for Engr. Science, Drottning Kristinas vag 47, Stockholm O, Sweden
 Engel, Juan J. R., Casilla Correo 2394, Buenos Aires, Argentina
 Engel, Rene, 711 S. Fair Oaks Ave., Pasadena 2, Calif.
 English China Clays Sales Corp., 551 Fifth Ave., New York 17, N. Y.
 Enhus, Hans Gosta, Aktiebolaget Malardalens Tegelbruk, Stockholm 3, Ericssbergsgatan 27, Sweden
 Enloe, Scroop W., Dillsboro, N. C.
 Enloe, Scroop W., Jr., Spruce Pine, N. C.
 Erard, Edward, Prolongacion Calle De La Rosa, No. 9, Atzacapotzalco, D. F., Mexico
 Erdinc, Saban S. (J), M.T.A. Genel Direktorluga, Y. Seramik Muh, Ankara, Turkey
 Erickson, A. Alfred, 84 Pershing St., Corning, N. Y.
 Erickson, Allen J., 4844 38th Ave. N. E., Seattle 5, Wash.
 Erie Resistor Corp. (Paul F. Siegrist), 644 W. 12th St., Erie, Pa.
 Ernst, Dolly M., Box 339, R. R. 4, Loveland, Ohio
 Ernst, Walter S., 2728 E. Fifth Ave., Knoxville, Tenn.
 Errett, David J., Climax Molybdenum Co. of Pa., Langeloth, Pa.
 Ersley, Chauncey J., Jr. (S), Box 78, Rexville, N. Y.
 Ervin, Francis E., 220 Sunset Dr., White Boro, McKeesport, Pa.
 Ervin, Guy, Jr., Research Laboratory, Norton Co., Worcester, Mass.
 Erwin, Lee R., 209 S. Sunset Place, Monrovia, Calif.
 Erzen, Frank C. (J), 6619 Beck St., Oakland 5, Calif.
 Escandon, Manuel F., Instituto Mexicano de Investigaciones Technologicas, Legaria 694 Banco De Mexico S. A., Mexico 10, D. F.
 Eschenburg, Robert L., II (S), Floresville, Texas
 Espersen, Karen, Holmegaards Glasvaerk, Holme-Olstrup, Denmark
 Esselstyn, Willard A., R. R. 1, Canonsburg, Pa.
 Essick, Charles R., Pennsylvania Optical Co., Reading, Pa.
 Estes, J. F., Haeger Potteries, Inc., Dundee, Ill.
 Etheredge, Otis K., Box 252, Gordon, Ga.
 Etris, Samuel F., 100 W. Nippon St., Philadelphia 19, Pa.
 Eubank, William R., Box 57, R.R. 3, River Falls, Wis.
 Eubanks, Alfred G., 10802 Stella Court, Kensington, Md.
 Eureka Flint & Spar Co., Inc. (M. J. McHugh), 190 W. State St., Trenton 8, N. J.
 Eusner, George R., 1025 Summitt St., McKeesport, Pa.
 Evans Case Co. (Alfred F. Reilly, Sr.), 21 East St., North Attleboro, Mass.
 Evans, Charles E., 2401 Northglenn Drive, Columbus 11, Ohio
 Evans, Daniel O., Hillcrest & Linden Ave., Mapleview, Charleroi, Pa.

Evans, Edward J., Welsh Tin Plate & Metal Stamping Co., Llanely, Carmarthenshire, Great Britain
 Evans, Kenneth E., Allied Engineering Co., 4150 E. 56th St., Cleveland, Ohio
 Evans Lead Corp. (R. M. Evans), Box 1467, Charleston 25, W. Va.
 Evans Pipe Co. (T. J. Evans III), Uhrichsville, Ohio
 Evans, Richard F., 2320 Milton Ave., Syracuse, N. Y.
 Evans, R. M., Evans Lead Corp., Box 1467, Charleston 25, W. Va.
 Evans, Ross M., 604 E. Mechanic St., Brazil, Ind.
 Evans, T. J., III, Evans Pipe Co. Uhrichsville, Ohio
 Evans, William G., George L. Ashworth & Bros. Ltd., Broad St. Works, Hanley, Stoke-on-Trent, England
 Evans, William W.,† 506 E. Iron Ave., Dover, Ohio
 Everhart, J. O.,† Engineering Experiment Station, Ohio State University, Columbus 10, Ohio
 Eversole, W. G., Linde Air Products Co., E. Park Dr. & Woodward Ave., Tonawanda, N. Y.
 Ewing, Robert F., Mansfield Sanitary Pottery, Perrysville, Ohio
 Exolon Co. (S. F. Walton), Tonawanda, N. Y.
 Eyerly, George B., 3813 N. Humboldt Ave., Apt. 4, Milwaukee, Wis.

F

Fabianic, William L.,† 1831 Seminary Ave., Alton, Ill.
 Fabrica de Ladrillos Industriales y Refractarios, S. A. (Salvador Odriozola Gomez), Apartado 390, Monterrey, N. L., Mexico
 Fabrica de Porcelana da Vista Alegre Lda., Largo da Biblioteca Publica, No. 17, Lisbon, Portugal
 Fackler, Ernst G., Apartado Aereo 6108, Bogota, Colombia
 Facktt, George P.,* 408 Paseo del Mar, Palos Verdes Estates, Calif.
 Fadanelli, Louis H. (S), 1132 S. California Ave., Chicago, Ill.
 Fahrenbruck, William O.,† R. R. 1, Box 95, Tiffin, Ohio
 Failmezzger, Howard,*† Victor Insulators, Inc., Victor, N. Y.
 Fain, Charles C. (S), 789 Glendalyn Ave., Spartanburg, S. C.
 Fairchild, Charles O., Chain Bridge Rd., Fairfax, R. R. 3, Va.
 Fairfacts Co., Inc. (M. P. Mitchell), Box 374, Trenton 3, N. J.
 Falconer, Donald P., 1018 Maple Ave., Evanston, Ill.
 Fallon, Frank J.,† B. G. Corp., Ridgefield, N. J.
 Falter, Arthur H., 8635 Jacob Pl., Niagara Falls, N. Y.
 Farber, Louis G.,† Ceramics Monthly, 3494 N. High St., Columbus 14, Ohio
 Fargo, Jarvis J., 140 Centerway, Corning, N. Y.
 Farkas, Howard, United States Stoneware Co., 60 E. 42nd St., New York, N. Y.
 Farley, Eldon (S), 336 S. Fifth St., San Jose, Calif.
 Farnell, James H., Ferroxcube Corp. of America, E. Bridge St., Saugerties, N. Y.
 Farr, Archie E., Box 379A, R.R. 5, Pittsburgh 5, Pa.
 Farrow, Lewis C., R.R. 1, Clyde, Ohio
 Fasold, G. A., 7329 Bernard Ave., Cincinnati 31, Ohio
 Faulkner, Karl B., Corning Glass Works, Corning, N. Y.
 Faust, Ernest H., Jr.† (J), 3129 Whitney Ave., Mt. Carmel, Conn.
 Faust, George T., 9907 Capitol View Ave., Silver Spring, Md.
 Fay, Wayne X., General Refractories Co., 202 Oxford Hill Lane, Havertown, Pa.
 Feagin, R. C., Austenal Laboratories, Inc., 224 E. 39th St., New York, N. Y.
 Federal Glass Co. (Henry H. Blau), E. Innis Ave., Columbus 7, Ohio
 Federal Seaboard Terra Cotta Corp., (O. E. Mathiasen), Perth Amboy, N. J.
 Fedock, Michael P., 163 Woodlawn Ave., N. W., Canton 8, Ohio
 Feinbloom, David T. (S), Box 279, Alfred, N. Y.
 Fellows, R. L.,*† 748 N. Kensington Ave., La Grange, Ill.
 Fellows, Roger L., Jr.† (J), 2219 Tabor Ave., Dayton 10, Ohio
 Fels, C. G.,† 11 DeForrest Ave., North Plainfield, N. J.
 Fenstermacher, John E. (S), 814 Morewood Ave., Pittsburgh, Pa.
 Fenton, Thomas W., General Steel Wares, Ltd., London, Ont., Canada
 Fenton, Walter M., Lithium Corp. of America, Inc., 2560 Rand Tower, Minneapolis 2, Minn.
 Ferdinand, George, 7113 Fishburn Ave., Bell, Calif.
 Ferguson, D. Robert, III, Box 368, New Cumberland, W. Va.
 Ferguson, Donald (S), Box 929, Alfred, N. Y.
 Ferguson, Douglas J., Pigeon Forge Pottery, Pigeon Forge, Tenn.
 Ferguson, Robert F., 1765 Caleb Dr., Zanesville, Ohio

Ferguson, Robert L., Yankee Hill Brick Mfg. Co., 730 Stuart Bldg., Lincoln 8, Neb.
 Ferguson, R. W., General Ceramics & Steatite Corp., Keasbey, N. J.
 Fernando, Hector S. (S), Box 96, Alfred, N. Y.
 Ferraz, Cyro B., Rua Voluntarios da Patria 2505, Casa 15, São Paulo, Brazil
 Ferris, Harry P. (J), 20 Birch Dr., Levittown, Pa.
 Ferris, James E., Niagara Alkali Co., 60 E. 42nd St., New York 17, N. Y.
 Ferro Corp. (R. A. Weaver), 4150 E. 56th St., Cleveland 5, Ohio
 Ferro Engineering Co., 1208 Hanna Bldg., Cleveland 15, Ohio
 Fessler, A. H.,*† Fenton, Mich.
 Fetter, H., Compania Mexicana de Refractarios, A. P. Green S. A., Tlalnepantla Apartado No. 71-Bis., Mexico City, Mexico
 Fetzer, George W., 1205 17th Ave., Columbus 11, Ohio
 Feyling, Claus A., Eie Stentofabrik, Egersund, Norway
 Fiberglas Canada, Ltd., Box 309, Guelph, Ont., Canada
 Field, Theodore E., 16th & Lee Sts., Louisville 10, Ky.
 Filippi, Hugo,* Illinois Brick Co., 228 N. La Salle St., Rm. 1718, Chicago 1, Ill.
 Fillmore, Charles L.,† Globe-Union Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
 Filreis, Samuel, 28 Chester Circle, Raritan Gardens, New Brunswick, N. J.
 Findlay Clay Products Co. (R. S. Craft), Washington, Pa.
 Finlay, G. R., Box 243, Chippawa, Ont., Canada
 Finlayson, John R. (S), School of Ceramics, Rutgers University, New Brunswick, N. J.
 Finney, Edwin L. (J), The Claycraft Co., Shawnee, Ohio
 Firestine, Arthur G., 34 Dewey Ave., Fairport, N. Y.
 Fischer, Eugene A., 108 Newton Ave. N., Worcester 5, Mass.
 Fischer, Peter R. (S), Deisenhofener Str. 87, Munich 9, Germany
 Fischer, Robert J., 86 Barker Ave., Eatontown, N. J.
 Fish, Elford T. (S), Box 801, Alfred, N. Y.
 Fishel, Waite P., Box 127, Vanderbilt Univ., Nashville 4, Tenn.
 Fisher, Henry C., 1 New Bond St., Worcester, Mass.
 Fisher, Joseph R., Bell Telephone Labs., Rm. 1A-336, Murray Hill, N. J.
 Fisher, William V., Anchor Hocking Glass Corp., Lancaster, Ohio
 Fishley, William S., The Sparta Ceramic Co., East Sparta, Ohio
 Fish-Schurman Corp. (Murray Yawitz), 70 Portman Rd., New Rochelle, N. Y.
 Fisk, Henry G., Natural Resources Research Inst., University of Wyoming, Laramie, Wyo.
 Fitzgerald, Alex E.,† General Refractories Co., 1520 Locust St., Philadelphia 2, Pa.
 Fitzgerald, J. Vincent, Tile Council of Amer. Research Center, School of Ceramics, Rutgers University, New Brunswick, N. J.
 Fitzsimmons, Elmer S., Dept. of Ceramic Eng., Iowa State College, Ames, Iowa
 Fix, Frank A., Posey Iron Works, Inc., Lancaster, Pa.
 Fleischer, Arthur, Box 349, Easthampton, Mass.
 Fleischer, Eiler, Holst & Fleischer, A/S Prinsens Gate 1, Oslo, Norway
 Fleming, A. P. M., Metropolitan Vickers Electrical Co., Ltd., Trafford Pk., Manchester 17, England
 Fleming, Charles A.,† 215 Dogwood St., Park Forest, Ill.
 Fleming, David M. (S), 322 E. Irving Ave., State College, Pa.
 Fletcher Enamel Co. (J. Carroll Fletcher), Dunbar, W. Va.
 Fletcher, J. Carroll, Fletcher Enamel Co., Dunbar, W. Va.
 Flick, Fulton B., 1706 First National Bank Bldg., Pittsburgh 22, Pa.
 Flint, E. P., Armour Research Foundation, 35 W. 33rd St., Chicago 16, Ill.
 Flint, Francis C.,*† Hazel-Atlas Glass Co., 15th & Jacobs Sts., Wheeling, W. Va.
 Flora, Lawrence E., 948 Cleveland, Kirkwood 22, Mo.
 Florence, Jack M., Kimble Glass Co., 2626 Dorr St., Toledo 1, Ohio
 Flu, Eldon B., 1533 Crooks Rd., Royal Oak, Mich.
 Fogelberg, Sven, Webb's Crystal Glass Co., Ltd., Dennis Glassworks, Stourbridge, England
 Folkers, Charles L. (S), Box 243, Ackley, Iowa
 Fonvielle, Frank P., Jr.,† Dentist Supply Co. of N. Y., 500 W. College Ave., York, Pa.
 Foote Mineral Co. (L. G. Bliss), 18 W. Cheltenham Ave., Philadelphia 44, Pa.
 Foraker, Robert W., 230 Newman St., Metuchen, N. J.
 Forbes, Lewis J.-B., 165 Bloor St. E., Toronto, Ont., Canada
 Ford, Fred J., Box 537, Dallas, Texas
 Ford, George D.,† 2136 Wilmer St., Zanesville, Ohio
 Ford, W. B., Smith & Stone, Ltd., Georgetown, Ont., Canada

Ford, Walter D.,† Pittsburgh Corning Corp., Technical Dept., Port Allegany, Pa.
 Fords Porcelain Works (I. A. Hansen), Perth Amboy, N. J.
 Foresman, Grover C., 212 Cedar St., Corning, N. Y.
 Forjaz, Nicolau, Porto Ferreira CP, E. São Paulo, Brazil
 Forkner, Henry R.,† Box 482, Blacksburg, Va.
 Forry, W. J.,† (J), 21 N. Shippen St., Lancaster, Pa.
 Forse, Edwin B., Carborundum Co., Box 268, Perth Amboy, N. J.
 Forter, Samuel A., 1210 Clark Bldg., Pittsburgh 22, Pa.
 Fosdick, Marion L.,* New York State College of Ceramics, Alfred, N. Y.
 Foster, Charles T. (J), 612 Sanguinette, Webster Groves, Mo.
 Foster-Forbes Glass Co. (F. R. Motsch), Marion, Ind.
 Foster, Wilder D., 5405 Bower Ave., Verona, Pa.
 Foster, Wilfrid R.,* Dept. of Mineralogy, Ohio State University, Columbus 10, Ohio
 Fostoria Glass Co. (Roy G. Yeater), Moundsville, W. Va.
 Fowler, Eugene F., Battelle Memorial Institute, 505 King Ave., Columbus, Ohio
 Frad, William A. (S), 1800 Oak St., Rolla, Mo.
 Frahm, Herman H.,† 114 Winston Rd., Akron 13, Ohio
 Frame, Dudley P., Jr., 490 Colonial Ave., Worthington, Ohio
 France, J. H., Refractories Co. (William A. France), Snow Shoe, Pa.
 France, William A., J. H. France Refractories Co., Snow Shoe, Pa.
 Franceschini, Eng. Felipe, Ceramica São Caetano, Caixa Postal 278, São Paulo, Brazil
 Francis, Ronald K. (S), 9 Sherwood St., Wellsboro, Pa.
 Francisco, Allen C.,† 227 Beeler Dr., Berea, Ohio
 Franck, Leon, Franck & Steeman, S. A., 20 Ave. Emmanuel, Haren-Nord, Belgium
 Franci, Josef (S), 52 Massachusetts Ave., Cambridge 39, Mass.
 Frank, Henry A., Kokomo Sanitary Pottery Corp., Kokomo, Ind.
 Frank, John N., Frankoma Potteries, Inc., Sapulpa, Okla.
 Franklin, Earl W., R.R. 1, Box 212B, Alfred University Research Lab., Kingston, N. Y.
 Franklin, William S.,† 918 Grassmere Ave., Wanamassa, N. J.
 Frankoma Potteries, Inc. (John N. Frank), Sapulpa, Okla.
 Frantz, S. G., Co., Inc. (Samuel G. Frantz), Box 1138, Trenton, N. J.
 Frantz, Samuel G., S. G. Frantz Co., Inc., Box 1138, Trenton, N. J.
 Franz, Leo J., Acme Brick Co., Malvern, Ark.
 Fraser, Lewis H. D., 5532 S. Everett Ave., Chicago 37, Ill.
 Fraser, Orray T.,† Harbor Hills, Hebron, Ohio
 Fraser, Walter A., Box 364, Fraser Glass Co., Inc., Roslyn Heights, N. Y.
 Fraser, W. B., Box 144, Dallas 1, Texas
 Frazier, C. E.,* Frazier-Simplex, Inc., 436 E. Beau St., Washington, Pa.
 Frazier, C. T., 527 E. Beau St., Washington, Pa.
 Frazier, J. Earl,*† Frazier-Simplex, Inc. 436 E. Beau St., Washington, Pa.
 Frazier-Simplex, Inc. (C. E. Frazier), 436 E. Beau St., Washington, Pa.
 Fréchette, Howells* (Life), 52 Park Ave., Ottawa, Ont., Canada
 Fréchette, Van Derck,† New York State College of Ceramics, Alfred, N. Y.
 Frederick, C. L.,† 24 Meadowood Lane, R. R. 4, Chagrin Falls, Ohio
 Frederick, Gilbert M., Babcock & Wilcox Co., 1120 Packard Bldg., Philadelphia 2, Pa.
 Frederick, Vernon W., Libbey-Owens-Ford Glass Co., Rossford, Ohio
 Fredericks, John D., Pacific Clay Products, Box 145, Sta. A., Los Angeles 31, Calif.
 Fredriksson, John I., Norton Co., Box 87, Niagara Falls, Ont., Canada
 Freeman, Charles A.,*† Freeman Fire Brick Co., Box 606, Canon City, Colo.
 Freeman, Edgar H., Cook Mfg. Co., Box 157, Walnut, Calif.
 Freeman, Joseph, L & L Manufacturing Co., 804 Mulberry St., Upland, Pa.
 French, Myrtle M.,* 8301 S. Langley Ave., Chicago 19, Ill.
 French, Preston W.,† 1517 Union Ave., Brackenridge, Pa.
 French Saxon China Co. (W. V. Oliver), Sebring, Ohio
 Freund, Thomas L. (J), Pittsburgh Plate Glass Co., Shelbyville, Ind.
 Frey, E. F., DeVilbiss Co., Toledo 1, Ohio
 Friedberg, Arthur L., 204 Ceramics Bldg., University of Illinois, Urbana, Ill.
 Friedman, Louis K., Homer Laughlin China Co., 212 Fifth Ave., New York, N. Y.
 Friedmann, Ernesto (S), HOEHR-GRENZHAUSEN, Westervald, Postlagernd, Germany (French Zone)
 Fritz, E. H.,*† 710 Walnut St., Latrobe, Pa.

Frome, Howell E., United Fuel Gas Co., Box 1273, Charleston 25, W. Va.
 Fronczak, E. T., 433 37th St. N. W., Canton, Ohio
 Frost, Leon J., Box 138, Lewiston, N. Y.
 Fry, Herbert G., National Enamels, Ltd., 53 Norman Rd., Greenwich, London S. E. 10, England
 Fryinger, James B., Pennsylvania Glass Sand Corp., 140 Stanwix St., Pittsburgh, Pa.
 Fuenzalida, Javier H., Foreign Div., American Radiator & Standard Sanitary Corp., 40 W. 40th St., New York 18, N. Y.
 Fulker, Richard H., 1408 Nicklin Ave., Piqua, Ohio
 Fuller, Donald H., 335 S. Cook Ave., Trenton, N. J.
 Fuller, L. R., 1129 E. Walnut St., Kokomo, Ind.
 Fuller, Richard B., 628 Wayne St., Sandusky, Ohio
 Fuller, Richard G., H. C. Spinks Clay Co., First National Bank Bldg., Cincinnati 2, Ohio
 Fulmer, Raymond C., Stackpole Carbon Co., St. Marys, Pa.
 Fulrath, Richard M., Box 254 A, Linda Mesa Ave., Danville, Calif.
 Fulton, Glen B., Norris Stamping & Mfg. Co., Box 16, Sta. K, 5215 Boyle Ave., Los Angeles, Calif.
 Funk, James E. (S), 1355 Crane St., Schenectady, N. Y.
 Funke, W., Owens-Illinois Glass Co., 3600 Alameda Ave., Oakland 1, Calif.
 Funkhouser Co., (J. B. Sauls), Blue Ridge Summit, Pa.
 Funnell, John E., Southwest Research Institute, Box 2296, San Antonio 6, Texas
 Furr, Clegg M., Box 191, Oakboro, N. C.
 Fussell, Lynn E., 122 Kingston, Louisville, Ky.
 Fuszara, Lester T., 5 Stanton Ave., Perry, N. Y.

G

Gad, G. M. (S), Chemical Engineering Dept., Prince Consort Rd., London S. W. 7, England
 Gagin, L. V., Kimble Glass Co., 2626 Dorr St., Toledo, Ohio
 Gainer, Taylor M., 6505 Evangeline, Louisville, Ky.
 Gaines, Robert F., 52 S. Pickering St., Brookville, Pa.
 Galbreath, William W., Jr., 317 S. West Ave., Elmhurst, Ill.
 Gallison, Herbert E., Worthington Corp., Industrial Mixer Div., Plainfield, N. J.
 Gallup, John, RCA Victor Div., Radio Corp. of America, 415 S. Fifth St., Harrison, N. J.
 Galusha, Richard L., Box 12, Bendersville, Pa.
 Galvin, Richard J., Sheffield Brick & Tile Co., Sheffield 1, Iowa
 Gamson, Bernard W., Great Lakes Carbon Corp., Box 9, Morton Grove, Ill.
 Gangler, James J., 20538 Stanford Ave., Fairview Park 26, Ohio
 Ganier, Albert F., Jr., W. G. Bush & Co., 174 Third Ave. N., Nashville, Tenn.
 Ganpule, Anant K., Parshuram Pottery Works Co., Ltd., Morvi, Saurashtra, India
 Gants, Sheldon B., Ceramic Associates, 3650 Dyre Ave., New York, N. Y.
 Garbisch, Norbert S., Garco Products, Inc., Box 351, Butler, Pa.
 Garcia-Leal, Ramon, Apartado Postal 1115, Monterrey, N. L., Mexico
 Garco Products, Inc. (Norbert S. Garbisch), Box 351, Butler, Pa.
 Garden, Henry R., Jr., Box 123, Salem, Va.
 Gardner, Walter E., Padre Mier 437 Pte., Apt. 1, Monterrey N. F., Mexico
 Gareis, Friedrich, "Tassino," Montagnola Lugano, Switzerland
 Garfield Refractories Co. (Kenneth A. Rugh), Bolivar, Pa.
 Garland, C. F., Mason City Brick & Tile Co., Mason City, Iowa
 Garlick, Oakley H., Paul O. Abbe, Inc., Little Falls, N. J.
 Garlick, Philip L., (S), 1 Gladys St., Cyrildene, Johannesburg, South Africa
 Garrison, Donald L., 401 Woodside Ave., Narberth, Pa.
 Garstang, Alec. King, Taudevin & Gregson, Ltd., Melbourne Chambers, Cambridge St., Sheffield 1, England
 Garve, T. Walter, 69 W. Weisheimer Rd., Columbus 14, Ohio
 Garvey, Lawrence P., RCA Victor, 415 S. Fifth St., Harrison, N. J.
 Gaskins, W. W., 1608 Huntington Dr., Box 390, South Pasadena, Calif.
 Gates, Daniel W., (S), Apt. 9B, Daniel Dr., Clemson, S. C.
 Gates, Louis E., Jr. (S), Box 933, Canton, N. C.
 Gates, Major E., 1447 Parkview Ave., Pasadena, Calif.
 Gates, R. Wayne, R.R. 1, Rosedale, Ind.
 Gaudiano, Victor M., Sanitarios El Aguila S.A., Apartado Postal 26808, Zone 14, Mexico, D. F.

Gaunt, Charles L., Indiana Glass Co., Dunkirk, Ind.
 Gautsch, Murray C., Metal & Thermit Corp., E. Grand Ave., South San Francisco, Calif.
 Gavin, G. P., Kohler Co., Kohler, Wis.
 Geiger, Charles F., Carborundum Co., Box 268, Perth Amboy, N. J.
 Geisinger, E. E., Pfaudler Co., 1000 West Ave., Rochester 3, N. Y.
 Geller, R. F., 5427 York Lane, Bethesda 14, Md.
 Gelstharp, Frederick, 1134 Park St., Tarentum 1, Pa.
 Geltman, Gerald (S), Box 746, Alfred, N. Y.
 Gemp, Robert W., 6000 Tabor Ave., Apt. A3, Philadelphia 11, Pa.
 General Ceramics and Steatite Corp. (R. W. Ferguson), Keasbey, N. J.
 General Color & Chemical Co., Inc. (Harry J. Keener), Box 7, Minerva, Ohio
 General Electric Co. (G. M. Boyd), Locke Dept., Box 57, Baltimore 3, Md.
 General Electric Co. (W. S. Kahlson), Lamp Dept., Pitney Glass Works, Nela Park, 12, Cleveland, Ohio
 General Glass Equipment Co. (Victor A. Plumbo), 5 S. Virginia Ave., Atlantic City, N. J.
 General Refractories Co. (Russell P. Heuer), 1520 Locust St., Philadelphia 2, Pa.
 Gentry, Raymond, Alexander H. Kerr & Co., Inc., Box 2008, Santa Ana, Calif.
 Gentsch, Bernhard F., United Clay Mines Corp., 101 Oakland St., Trenton, N. J.
 George, W. C., W. S. George Pottery Co., East Palestine, Ohio
 George, W. R., Canonsburg Pottery Co., Canonsburg, Pa.
 George, W. S., Pottery Co. (W. C. George), East Palestine, Ohio
 Georgia Kaolin Co., 433 N. Broad St., Elizabeth 3, N. J.
 Georgia Pigment Co. (W. W. Kingman), Sandersville, Ga.
 Gerber, Max, 232 N. Clark St., Section 1, Chicago 1, Ill.
 Gercar, Francisco J., S. A. Cristalerias Del Uruguay, Comercio 1491, Montevideo, Uruguay
 Gersch, Herbert, 292M Bagshaw Rd., Columbus, Ohio
 Gerstenschlager, V., Jr., Babcock & Wilcox Co., Box 923, Augusta, Ga.
 Gerster, C. W., The Louthan Mfg. Co., East Liverpool, Ohio
 Getto, Allan (S), Box 246, Alfred, N. Y.
 Ghering, Leonard G., Preston Laboratories, Box 149, Butler, Pa.
 Giacomelli, Domenico, Soc. It., Refrattari Marghera Azionaria, Via Industrie 52 Cas. Post. 38, Marghera, Italy
 Gibb, Mary J., American Ceramic Society, 2525 N. High St., Columbus 2, Ohio
 Gibbs, Melvin B., Inland Steel Co., East Chicago, Ind.
 Gibson, Frank B., Association of American Railroads, 59 E. Van Buren St., Chicago 5, Ill.
 Gibson, R. L., 512 E. Leasure Ave., New Castle, Pa.
 Gieseke, Frans, Kockums Emaljerverk, Ronneby, Sweden
 Giesey, V. A., 1704 W. Carson St., Pittsburgh, Pa.
 Giess, Edward A. (J), 124 Geranium Ave., Floral Park, N. Y.
 Giles, James H., Jr., 5516 39th St., N. W., Washington, D. C.
 Giles, Lt. Thomas M. (J), Box 150, G.A.F.B., Rome, N. Y.
 Gilfillan, J. M., New Jersey Porcelain Co., Box 908, Trenton 5, N. J.
 Gill, James A., 8427 Broadway, San Antonio 9, Texas
 Gill, John H., Gill Clay Pot Co., Muncie, Ind.
 Gill, Joseph W., 563 Hillside Ave., Elmhurst, Ill.
 Gill, LaVerne N., American Radiator & Standard Sanitary Corp., Box 268, Torrance, Calif.
 Gillespie, H. M., 225 Broadway, New York 7, N. Y.
 Gilliard, Joseph W., 108 W. County St., Phoebus, Va.
 Gillinder Bros., Inc. (J. Fletcher Gillinder), Port Jervis, N. Y.
 Gillinder, J. Fletcher, Gillinder Bros., Inc., Port Jervis, N. Y.
 Gilluly, William F., 212 Chestnut St., Port Allegany, Pa.
 Gimson, Joseph F., Worcester Royal Porcelain Co., Ltd., Royal Porcelain Works, Worcester, England
 Gingold, Jacob, 6 rue de Fontenay, Plessis-Robinson, Paris, Seine, France
 Ginther, Lawrence B., Libbey-Owens-Ford Glass Co., 1701 E. Broadway, Toledo 5, Ohio
 Girard, R. T., Works Laboratory, General Electric Co., Schenectady, N. Y.
 Gitter, Alice Josephine, 39 W. 70th, New York 23, N. Y.
 Gitzen, Walter H., 1 Wesley Dr., Belleville, Ill.
 Given, Conrad W., Great Lakes Steel Corp., Ecorse, Detroit 18, Mich.
 Glabau, Ernest R. (S), 234 Somerset Ave., Taunton, Mass.
 Gladding, A. C., Gladding Bros. Mfg. Co., Third & Keyes St., Box 88, San Jose, Calif.
 Gladding, McBean & Co. (William O. Brandt), 2901 Los Feliz Blvd., Los Angeles 39, Calif.

- Gladney, Kurt, Fiberglas Canada, Ltd., Box H, Sarnia, Ont., Canada
- Glaze, Francis W.,† 4100 Gallatin St., Hyattsville, Md.
- Glen-Gery Shale Brick Corp. (Gordon E. Lewis), Box 182, Wyomissing, Pa.
- Glenshaw Glass Co., Inc. (George W. Meyer), Glenshaw, Pa.
- Globe-Union, Inc. (J. Fletcher Harper), 900 E. Keefe Ave., Milwaukee, Wis.
- Glossbrenner, D. I., R. R. 12, Box 261, Indianapolis, Ind.
- Glynn, T. W., Blue Ridge Glass Corp., Kingsport, Tenn.
- Goddard, W. T., Box 428, Hamilton, Ont., Canada
- Goetchius, Don R., 4150 E. 56th St., Cleveland, Ohio
- Goettman, Franklin P., Standard Sand Co., Grand Haven, Mich.
- Goin, Fred L., Gladding, McBean & Co., Lincoln, Calif.
- Golding, Ivor L. S., Metal Porcelains, Ltd., Cornwall Rd., Smethwick 40, England
- Golding Keene Co. (G. G. Copeland), Keene, N. H.
- Goldman, Basil B., 1545 S. State St., Chicago 5, Ill.
- Goldsmith, Julian R., University of Chicago, Dept. of Geology, Chicago 37, Ill.
- Goldstein, Maxwell K., Balco Research Laboratories, 49-53 Edison Place, Newark 2, N. J.
- Gomez, Salvador Odriozola, Fabrica de Ladrillos Industriales y Refractories, S. A., Apartado 390, Monterrey, N. L., Mexico
- Gonder, Lawton, Gonder Ceramic Arts, Inc., Box 448, Zanesville, Ohio
- Gonzalez, Raul, Vidriera Mexico, S. A., Lago Zurich #243, Mexico 17, D. F., Mexico
- Goodman, Gilbert, General Electric Research Laboratory, The Knolls, Schenectady, N. Y.
- Goodman, H. A., Dominion Fire Brick & Clay Products, Ltd., Claybank, Sask., Canada
- Goodman, James S., American Radiator & Standard Sanitary Corp., 834 E. Broadway, Louisville 4, Ky.
- Goodrich, H. R.,† 1622 Santa Barbara Ave., Glendale 8, Calif.
- Goodwin, William Jarrard, Metals Research Labs., Electro-Metallurgical Co., Box 580, Niagara Falls, N. Y.
- Gordon, Irwin, RCA Laboratories Div., Princeton, N. J.
- Gornly, Alan L., 490 Shrewsbury St., Holden, Mass.
- Gornly, Maurice W., 7330 Miami Hills Dr., Madeira, Ohio
- Gornall, Henry A.,† 4357 Ardmore Rd., S. Euclid, Cleveland 21, Ohio
- Gorsuch, Charles A., Ayers Mineral Co., 806 Market St., Zanesville, Ohio
- Gort, Walter A., 20 Sheridan Ave., Metuchen, N. J.
- Goss, Bruce R. (S), Klan Alpine Fraternity, Box FF, Alfred, N. Y.
- Gotto, Mrs. B. D., Westmoor Laboratory, Chatteris, Cambridgeshire, England
- Goudge, Monson F., Mines Branch, 40 Lydia St., Ottawa, Ont., Canada
- Gough, James A.,† (J), 1282 Genessee Rd., Cleveland, Ohio
- Gould, Robert E.,† Buffalo Pottery, Inc., 25 Hayes Place, Buffalo 10, N. Y.
- Gower, Irving W., Box 5084, Raleigh, N. C.
- Graff, James B., Graff-Kittanning Clay Prod. Co., Worthington, Pa.
- Graff-Kittanning Clay Prod. Co., (James B. Graff), Worthington, Pa.
- Graff, William A., Glass Technology Laboratory, General Electric Co., 1133 E. 152nd St., Cleveland 10, Ohio
- Graham, John W., Research Laboratory, Kennametal, Inc., Latrobe, Pa.
- Graham, Ronald A., Wyandotte Chemicals Corp., Research Div., Wyandotte, Mich.
- Grannen, Edward A., 77 Sheehan Ave., Cincinnati 15, Ohio
- Grant, Frederic J., 527 W. Seventh St., Rm. 302, Los Angeles 14, Calif.
- Grant, Mrs. Frederic J., Smoke Tree Ranch, Palm Springs, Calif.
- Gray, William T., Leeds and Northrup Co., 4901 Stenton Ave., Philadelphia 44, Pa.
- Great Lakes Foundry Sand Co. (C. L. Cruikshank), 720 United Artists Bldg., Detroit 26, Mich.
- Great Lakes Steel Corp. (Conrad W. Given), Ecorse, Detroit 18, Mich.
- Greaves-Walker, A. F.,*† Box 1416, Zephyrhills, Fla.
- Green, A. T.,* British Ceramic Research Assn., Queen's Rd., Penkhull, Stoke-on-Trent, England
- Green, A. P., Fire Brick Co. (R. S. Bradley), Research Dept., Mexico, Mo.
- Green, Allen P., A. P. Green Fire Brick Co., Mexico, Mo.
- Green, D. T., Milton Brick Co., Ltd., 170 Bloor St. W., Toronto, Ont., Canada
- Green, John R.,† Brown Instruments Div., Wayne & Roberts Ave., Philadelphia, Pa.
- Green, Robert L., Lenox, Inc., Meade St., Trenton, N. J.
- Green, R. S.,† 18 S. Jefferson Rd., Mexico, Mo.
- Greenberg, Sidney A., 377 Windsor St., North Plainfield, N. J.
- Greene, Charles F., 540 Rogers Dr., Macon, Ga.
- Greene, Charles H., Box 1046, Alfred, N. Y.
- Greene, J. F.,* 1043 New Pear, Vineland, N. J.
- Greene, Robert H., Canadian General Electric, 5781 Notre Dame E., Montreal, Que., Canada
- Greger, Herbert H., R. R. 1, Rockville, Md.
- Gregorius, J. S.,† Pittsburgh Plate Glass Co., Gateway Center, 420 Ft. Duquesne Blvd., Pittsburgh 22, Pa.
- Grenier, Lee, Magnet Cove Barium Corp., Box 832, Greybull, Wyo.
- Gresham, Lucius C., Jr., c/o Acme Brick Co., Monroe, La.
- Griffin, Thomas W., Busby Hill Rd., R.R. 2, Weatogue, Conn.
- Griffith, J. Scott, 5524 W. Adams St., Chicago 44, Ill.
- Griffith, R. E., R. R. 1, Malvern, Pa.
- Griffith, William A. (S), Box F F, Alfred, N. Y.
- Griffiths, Norman, Nonporite Pty., Ltd., 292-296 Burwood Rd., Hawthorn 2, Victoria, Australia
- Grigg, Arthur, Denver Sewer Pipe & Clay Co., Box 2329, Denver 1, Col.
- Grigg, Paul E.,† 1415 S. Fifth St., St. Charles Ill.
- Grim, Ralph E., Dept. of Geology, University of Illinois, Urbana, Ill.
- Grobbs, F. S., G. F. Sterne & Sons Ltd., 126 Bruce St., Brantford, Ont., Canada
- Groome, Garland L., 1347 Cambria St., Baltimore 25, Md.
- Gross, Harold I., Santa Anita Potteries, 3117 San Fernando Rd., Los Angeles, Calif.
- Grothaus, Joseph V., 6920 S. Shore Dr., Chicago 49, Ill.
- Grove, Robert L.,† 26 Rockland St., So. Dartmouth, Mass.
- Gruidl, Raymond, 401 Sixth St., New Brighton, Pa.
- Gruner, Max N., Harbison-Walker Refractories Co., 1325 Ambassador Bldg., St. Louis 1, Mo.
- Gruver, Robert M. (S), 1160 Oneida St., State College, Pa.
- Gschwind, Jean F., J. O. Ross Engineering Corp., 444 Madison Ave., New York 22, N. Y.
- Guerci, Carl F., 1444 Westgate Dr., Bethlehem, Pa.
- Guimaraes, Helio Pentagna, Caixa Postal 1355, Belo Horizonte, Brazil
- Guimond, Alfred C., Geemo' Originals, 14824-26 Charlevoix Ave., Detroit 15, Mich.
- Guinn, William B. (J), W. S. Dickey Clay Mfg. Co., Pittsburg, Kan.
- Gulick, Chester, Kentucky-Tennessee Clay Co., 807 City Savings Bldg., Alliance, Ohio
- Gullings, LeRoy V., 126 Parkway Dr., Wabash, Ind.
- Gummeson, P. Eg., Hoganas-Billesholms Aktiebolag, Hoganas, Sweden
- Gunther, F. W., 849 Baker Ave., N. W., New Philadelphia, Ohio
- Gunther, Juan R., Casilla 703, Concepcion, Chile
- Gunzenhauser, Adolph, Industrial Consultant, 617 W. End Ave., New York 24, N. Y.
- Gupta, Subodh (J), Box 213, Port Jervis, N. Y.
- Gustafson, Carl H., Jr., Montana Dr., Holden, Mass.
- Gustin, Jud A., Gouverneur Talc Co., Box 89, Gouverneur, N. Y.
- Guthrie, George, "Ochil" Harrow Rd., Sudbury Hill, Wembley, Middlesex, England
- Guthrie, George B., 642 Louisiana Ave., Chester, W. Va.
- Gutierrez, Alvaro Mondragon, Empresa Siderurgica Nal. de Paz de Rio, Departamento Technico, Edificio Banco de Colombia, Bogota, Colombia
- Gutmann, Paul F., 88 Angelica St., St. Louis 7, Mo.
- Guzman, Hector, Box 382, Rio Piedras, Puerto Rico
- Gzowski, Edward R. (S), 59 Drake St., Oakfield, N. Y.

H

- Hackett, James W., 3614 Kenwood Blvd., Toledo 6, Ohio
- Hackler, W. C.,† Ceramic Section, Engineering & Industrial Exp. Station, University of Florida, Gainesville, Fla.
- Haecker, Richard A., 3469 Lewis Ave., Long Beach 7, Calif.
- Haeger, E. H., Haeger Potteries, Inc., Dundee, Ill.
- Haeger Potteries, Inc. (E. H. Haeger), Dundee, Ill.
- Haff, Robert S., Jr., Norton Co., Refractories Div., Sales Engrg. Dept., Worcester, Mass.
- Hafner, Harold C., Bausch & Lomb Optical Co., Dept. IH, Rochester 2, N. Y.
- Hagan, M. A.,† Midwest Research Institute, 4049 Pennsylvania, Kansas City, Mo.
- Hagar, Donald,*† Box 328, Zanesville, Ohio
- Hagedorn, E. C., Gen. Research & New Development Div., Owens-Illinois Glass Co., 1700 N. Westwood, Toledo 7, Ohio
- Hagenauer, Carl J., R. R. 1, Sarver, Pa.
- Hagerman, R. Scott† (S), E. I. du Pont de Nemours & Co., Engr. Exp. Sta., Wilmington 98, Del.

Hagglund, Erik, The Kanthal Corp., Amelia Place, Stamford, Conn.
Hagner, Fred F., Phoenix Glass Co., Monaca, Pa.
Hagy, Henry E., Corning Glass Works Lab., Corning, N. Y.
Hahn, William P., 80 Norwood Ave., North Plainfield, N. J.
Hahner, Clarence H.,* National Bureau of Standards, Washington 25, D. C.
Halden, Frank A. (S.), Graduate House, Mass. Inst. of Tech., Cambridge 39, Mass.
Haldy, Norman L., 441 Stewart Ave., Columbus 6, Ohio
Hall China Co., (M. W. Thompson), East Liverpool, Ohio
Hall, E. B., M/S Bird & Co., Ltd., Research Dept., Chartered Bank Bldgs., Calcutta, India
Hall, Everson, Park Blvd., East Liverpool, Ohio
Hall, F. P.,* Pass & Seymour, Inc., Syracuse 9, N. Y.
Hall, John T., Elysian Way, East Liverpool, Ohio
Haller, P., 319 Carterknowle Rd., Sheffield 11, England
Haller, Wolfgang K., Inst. of Silicate Research, University of Toledo, Toledo 6, Ohio
Hallett, Crawford W.,† 731 Lexington Ave., Zanesville, Ohio
Hallowin, William G., 1218 Broadview Blvd., Brackenridge, Pa.
Halm, Louise, Union Francaise des Produits Refractaires, 15 Rue de Milan, Paris, 9e, France
Hamaker, M. L., Columbia Fire Brick Co., First National Bank Bldg., Canton 2, Ohio
Hamilton, Edgar H., National Bureau of Standards, Washington 25, D. C.
Hamilton, Noble E., Axel Johnsons Vag 78, Avesta, Sweden
Hamilton, W. M., Crane Co., Chattanooga Div., Chattanooga, Tenn.
Hammer, Averill J., Dept. of Chemistry, Bowling Green State University, Bowling Green, Ohio
Hammer, Gunter, "Grange Moore," 21 College Rd., Newton Abbot, Devon, England
Hammer, R.,† Box 5212 (Nachla), Haifa, Israel
Hammond Lead Products, Inc. (William P. Wilke, III), 5231 Hohman Ave., Box 912, Hammond, Ind.
Hammer, Robert L., Box 14, Oak Ridge, Tenn.
Hancock Brick & Tile Co. (J. Leo Child), Box 59, Findlay, Ohio
Hancock, Russell A., 83 Water St., Auburn Sydney N. S. W., Australia
Hand, Thomas, Corhart Refractories Co., 1600 W. Lee St., Louisville 10, Ky.
Handen, Jack (J.), 360 Euclid Ave., Elmira, N. Y.
Handwerk, Joseph H., Box H, University, Ala.
Hanes, John G., Republic Steel Corp., Warren, Ohio
Hanks, Charles F., Jr., Kentucky-Tennessee Clay Co., 807 City Savings Bldg., Alliance, Ohio
Hanley Co. (Charles E. Bates), Summerville, Pa.
Hanlon, Charles W., Hauck Mfg. Co., 124-136 Tenth St., Brooklyn 15, N. Y.
Hann, Douglas G., Caynton, Shifnal, Shropshire, England
Hann, G. C., Minnesota Mining & Mfg. Co., 367 Grove St., St. Paul 1, Minn.
Hanna, H. H.,† Pittsburgh Plate Glass Co., Crystal City, Mo.
Hanna, Ralph E.,† Square D Co., Molded Insulation Div., Peru, Ind.
Hanna, Richard (S), Hartford, N. Y.
Hannon, Richard C., 1208 Franklin Rd., Salem, Ohio
Hanovia Chemical & Mfg. Co. (R. T. Hopper), 1 W. Central Ave., East Newark, N. J.
Hansard, W. Carey,† 2345 Cheshire Bridge Rd., N. E., Atlanta, Ga.
Hansell, U. G., Minneapolis-Honeywell, 50 Liberty St., Westbury, R. I.
Hansen, Charles V., Gibson Refrigerator, 515 W. Williams St., Greenville, Mich.
Hansen, I. A., Fords Porcelain Works, Perth Amboy, N. J.
Hansen, J. E.,* Ferro Corp., 5309 S. District Blvd., Los Angeles 22, Calif.
Hansen, Valdemar, Kastrup Glasvaerk, Ltd., Norrevoldg. 12, Copenhagen K. Denmark
Hansen, Waldemar C., Universal Atlas Cement Co., Gary, Buffington Sta., Ind.
Hanson, G. G., International Minerals and Chemical Corp., Consolidated Feldspar Dept., 4436 N. Maplewood Ave., Chicago 25, Ill.
Hanson, Hans R., 30004 W. Ten Mile Rd., Farmington, R. R., Mich.
Harbert, Carl, Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio
Harbison-Walker Refractories Co. (W. F. Rochow), 1800 Farmers Bank Bldg., Pittsburgh 22, Pa.
Harcourt, Edward L., North American Mfg. Co., 3810 West St., Cincinnati 27, Ohio
Harder, Charles M.,* New York State College of Ceramics, Alfred, N. Y.

Harding, John Roy, 4 Greenway, Horsham, Sussex, England
Hardinge Co., Inc. (Harlowe Hardinge), York, Pa.
Hardinge, Harlowe, Hardinge Co., Inc., York, Pa.
Hardy, Charles C., Compania Mexicana de Refractarios, A. P. Green S. A., Apartado Postal No. 71-Bis, Mexico 1, D. F.
Hardy, Ronald G.,† 5204 Catalina, Kansas City 3, Kan.
Hares, George B., 15 Roosevelt St., Corning, N. Y.
Hargreaves, John (S), 26 Kirk Lane, Yeaton, Near Leeds, England
Harker Pottery Co. (Robert E. Boyce), East Liverpool, Ohio
Harman, C. G.,* Horizons, Inc., 2891 E. 79th St., Cleveland, Ohio
Harnish, John D., Jr.,† Westinghouse Electric Corp., Derry, Pa.
Harper, J. Fletcher, Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee, Wis.
Harper, Roderick L., Harper Electric Furnace Corp., 39 River St., Buffalo 2, N. Y.
Harr, W. J.,† 6454 Bloomingdale, Chicago 35, Ill.
Harrell, George O., 52-E Oak Grove Dr., Baltimore 20, Md.
Harrington, Henry W., 132 Stafford Ave., Syracuse 6, N. Y.
Harris, Arthur L., Harris Clay Co., Dillsboro, N. C.
Harris, David H., Shenango Pottery Co., New Castle, Pa.
Harris, Henry M., 5226 Holly St., Seattle 8, Wash.
Harris, Robert C., Box 424, Unadilla, N. Y.
Harris, William J., Crossley Machine Co., Trenton 9, N. J.
Harrison, Harold C., Westinghouse Electric Corp., Liaison Eng., 7-L-23, East Pittsburgh, Pa.
Harrison, W. N.,* National Bureau of Standards, Industrial Bldg., Enamelled Metals Sect., Washington 25, D. C.
Harrison, William B.,† (J), 3017 N. 86th St., Milwaukee 10, Wis.
Harsell, William B. (S), 345 Union Ave., Elizabeth, N. J.
Harshaw Chemical Co. (Carl Harbert), 1945 E. 97th St., Cleveland 6, Ohio
Hart, John R. (S), 2208 Bernard St., Raleigh, N. C.
Hart, Leroy D., 707 Crompton Court, Webster Groves 19, Mo.
Hart, Wade J.,† 908 Lafayette Court, Marion, Ind.
Hartford-Empire Co., Div. Emhart Mfg. Co. (Karl E. Peiler), Box 1620, Hartford, Conn.
Hartford, Thomas J. (J), Gladding McBean & Co., Pittsburg, Calif.
Hartshorn, T. D.,† A. J. Lindemann & Hoverson Co., Milwaukee 15, Wis.
Hartwig, Frederick J., Jr., Babcock & Wilcox Co., Box 835, Alliance, Ohio
Harvey, A. M., Jr., Roanoke-Webster Brick Co., Box 780, Roanoke 5, Va.
Harvey, E. M., North State Pyrophyllite Co., Pomona, N. C.
Harvey, Edwin T., 314 W. McPike St., Vandalia, Mo.
Harvey, Joseph S., Jr., 465 Centre St., Quincy, Mass.
Hasko, Stephen, 1510 Wheaton Lane, Silver Spring, Md.
Hasselbach, William, Libbey-Owens-Ford Glass Co., 1701 E. Broadway, Toledo 5, Ohio
Hassett, William A., 1315 Woodington Rd., Baltimore 29, Md.
Hatch, Robert A., Bureau of Mines, Electrotechnical Lab., Norris, Tenn.
Hathaway, A. J., 8721 Pershing Ave., Niagara Falls, N. Y.
Hathaway, Isaac S., 1318 Tuttle Ave., Montgomery, Ala.
Hauck, Charles A.,† (S), 3234 Kenyon Rd., Columbus, Ohio
Hauser, Richard E.,† (S), 351 Moselle St., Buffalo 11, N. Y.
Hauth, Willard E., Jr., 409 Warminster, Hatboro, Pa.
Havekotte, Walther L., Firth Sterling, Inc., 3113 Forbes St., Pittsburgh 30, Pa.
Havell, Richard F., 846 N. Euclid Ave., Oak Park, Ill.
Havens, Irvin F. (J), R. R. 1, Belfast, N. Y.
Haviland & Co. (Theodore Haviland II), 270 Park Ave., New York 17, N. Y.
Haviland, Theodore II, Haviland & Co., 270 Park Ave., New York, N. Y.
Hawes, Samuel A., 301 N. E. Sixth Ave., Mineral Wells, Texas
Hawk, Elwin A., Hawk Laboratories, Inc., R. R. 1, East Rochester, Ohio
Hawke, C. E., Carborundum Co., Perth Amboy, N. J.
Hawkes, John H. (J), 197 S. Flagg St., Worcester, Mass.
Hawkins, James M., Buffalo Brick Corp., 448 Franklin St., Buffalo, N. Y.
Hawkins, Robert J.,† 411 Fifth Ave., Columbia, Tenn.
Hawks, Ralph L., Holt St., Hopkinton, Mass.
Hawks, William L., 19324 Third Ave., S., Seattle 88, Wash.
Haws Refractories Co., (E. E. Slick, Jr.), 407 Main St., Johnstown, Pa.
Hay, John, 58 Westholmes Gardens, Musselburgh, Midlothian, Scotland
Hay, Joseph L., Acme Brick Co., Malvern, Ark.
Haydon, Mary P., 106 Ogontz Lane, Oak Ridge, Tenn.
Hazel-Atlas Glass Co. (Francis C. Flint), 15th & Jacobs Sts., Wheeling, W. Va.
Hazel, John J.,* Republic Bldg., Rm. 1526, Republic Steel Corp., Cleveland 1, Ohio

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FROM

Hazen, E. J.,† R. R. 2, Ford City, Pa.
 Healy, James H., 4511 N. Sherman Blvd., Milwaukee 16, Wis.
 Heath, Donald L., Ohio Brass Co., Park & Ninth, Barberton, Ohio
 Heatley, Sidney M. (S), Box 475, Moncks Corner, S. C.
 Heck, Frank G., E. J. Lavino & Co., 1528 Walnut St., Philadelphia 2, Pa.
 Heddell, James V., 2328 Hathaway Ave., Alhambra, Calif.
 Hedden, Walter A., Battelle Memorial Institute, 505 King Ave., Columbus 1, Ohio
 Hedges, Lee M., R. R. 4, Cedar Grove Rd., Somerville, N. J.
 Hedin, Claes O., Malardalnes Tegelbruk, Stockholm 3, Sweden
 Hedquist, Alfred J., Apartado Postal 525, Guadalajara, Jalisco, Mexico
 Heebner, John C.,† 7064 Glen Meadow Lane, Cincinnati 37, Ohio
 Hefti, Franz, c/o Zürcher Ziegeleien, Talstrasse 83, Zürich, Switzerland
 Heidman, Clarence F., The National Lime & Stone Co., First National Bank Bldg., Findlay, Ohio
 Heiligman, H. A.,*† E. J. Lavino and Co., Box 29, Norristown, Pa.
 Heimsoeth, Werner M., Farbenfabriken Bayer (22-C), Leverkusen-Bayerwerk, Germany
 Heindl, Raymond A.,* 4917 43rd St. N. W., Washington 16, D. C.
 Heine, H. W., Hudson Supply & Equipment Co., 1727 Pennsylvania Ave. N. W., Washington 6, D. C.
 Heischman, Frederick E., 106 S. Adams St., Fostoria, Ohio
 Heisey, A. H., & Co. (T. C. Heisey), Newark, Ohio
 Heisey, T. Clarence, A. H. Heisey & Co., Newark Ohio
 Heisler, John C., Jr., Eagle-Picher Co., Oliver Bldg., Pittsburgh 22, Pa.
 Heller, Enrique, c/o Casilla 406, Lima, Peru
 Helliesen, Richard O. (S), Box CC, Alfred, N. Y.
 Hellriegel, Edgar J., 986 Hale St., Apt. B, Pottstown, Pa.
 Helm, David F., Mellon Institute, Pittsburgh 13, Pa.
 Helser, Perry D.,*† 3604 Rosemary Ave., Glendale 8, Calif.
 Helz, Armin W., 20 Maryland Ave., Gaithersburg, Md.
 Hemberg, Per, Surte Glasswork, Surte, Sweden
 Hemphill, R. W., Colonial Insulator Co., 947 Grant St., Akron 11, Ohio
 Hemsteger, Samuel E.,† 525 E. 14 Mile Rd., Birmingham, Mich.
 Henderson, Frederick C.,*† Royal China, Inc., Sebring, Ohio
 Henderson, James L., Jr., Robinson Ventilating Co., Zelenople, Pa.
 Henderson, William W., Robinson Ventilating Co., Box 267, Zelenople, Pa.
 Hendren, Robert R.,† 105 Bank Ave., Riverton, N. J.
 Hendryx, Dwight B., 6621 Darlington Rd., Pittsburgh 17, Pa.
 Henry, H. Maynard, 1376 River Ave., Pittsburgh 12, Pa.
 Henrar, J. M. G., N. V. Porcelain en Tegelfabriek MOSA Maastricht, Meerssemerweg, Maastricht, Netherlands
 Henry, Edward C.,*† 1121 Westmoreland Ave., Syracuse 10, N. Y.
 Henry, Frank R.,* Simonds Worden White Co., N. Summit St. & Negley Place, Dayton 7, Ohio
 Henry, George R., 3349 Altherton Dr., Pittsburgh 34, Pa.
 Henry, Georges, a/s Union des Verreries Mecaniques Belges, 41, Quai de Brabant, Charleroi, Belgium
 Henry, Kenneth M.,* Kimble Glass Co., Box 1035, Toledo 1, Ohio
 Henry, O. James, Pittsburgh Plate Glass Co., 632 Ft. Duquesne Blvd., Pittsburgh 22, Pa.
 Hense, O. P., Eagle Picher Co., American Bldg., Cincinnati 1, Ohio
 Hensler, J. R., IH Dept., Bausch & Lomb Optical Co., Rochester 2, N. Y.
 Henson, Charles W., Norton Co., Worcester 6, Mass.
 Henson, W. H., 65 Whitman Rd., Worcester 5, Mass.
 Henwood, Reginald J., 9444 Lynnhaven Rd., Cleveland 29, Ohio
 Hepler, Ernest C., 329 Andover Rd., Fairless Hills, Pa.
 Hepplewhite, J. W.,*† 3637 Farland Rd., University Heights, Cleveland 18, Ohio
 Herbert, John S., 174 Third Ave. N., Nashville 3, Tenn.
 Herbert, John W., 3492 W. 100 St., Cleveland 11, Ohio
 Herger, Howard C., Pierce Glass Co., Port Allegany, Pa.
 Herko, Edward† (J), 191 Fairfax Rd., Rochester 9, N. Y.
 Herold, Paul G.,*† Missouri School of Mines, Rolla, Mo.
 Herpel, Clarence M., Cherokee Station, Box 5, Louisville 5, Ky.
 Herring, Leon P. (S), Box 143, Dillon, S. C.
 Herron, Robert H. (J), 1634 N. Ironwood Dr., South Bend, Ind.
 Hertzell, E. A., 1111 Chestnut St., Dover, Ohio
 Hess, F. B., Brockway Glass Co., Inc., Brockway, Pa.
 Hess, Robert L., 44 Hess Blvd., Lancaster, Pa.
 Hessler, Philip S.,† (J), Box 8448, Wright Air Development Center, Wright-Patterson AFB, Dayton, Ohio

Heuer, Russell P.,* General Refractories Co., 1520 Locust St., Philadelphia 2, Pa.
 Hewitt, Arthur E., Spode Works, Stoke-on-Trent, England
 Hewitt, L. C.,*† Laclede-Christy Co., 4705 Ridgewood Ave., St. Louis 16, Mo.
 Hewlett, James T., Ingram-Richardson Mfg. Co., Frankfort, Ind.
 Hicks, James C., 157 Jolly Court, Mountain View, Calif.
 Hicks, John F. G., 131 Hornby Dr., Painted Post, N. Y.
 Hicks, Robert G., Maple Crest 3rd Subdivision, Whiteland, Ind.
 Hiernaux, Marcel, 2, Lgue rue d'Argile, Anvers, Belgium
 Higgins, Ray, 191 Overlook Ave., Wadsworth, Ohio
 Higgins, Waldo W.,*† 655 S. Harrison Ave., Kankakee, Ill.
 Higgs, Harold P., Jeffers Electronics Div., Speer Carbon Co., DuBois, Pa.
 Higman, John W., Co. (Robert J. Stone), 24 State St., New York 4, N. Y.
 Hildebrand, David (J), R. R. 1, c/o Gold Point Marina, Hixson, Tenn.
 Hill, Dudley A., U. S. Testing Co., Inc., 1415 Park Ave., Hoboken, N. J.
 Hill, Erceel C.,*† 210 W. Ridley Ave., Ridley Park, Pa.
 Hill, John R., 403 Edgewater Apts., Charleston, W. Va.
 Hilling, James L., Jr. (S), 129 Maple Ave., Altoona, Pa.
 Hinkley, Arthur T., Oldbury Electro-Chemical Co., Niagara Falls, N. Y.
 Hind, Stanley, "The Mount," Etruria Rd., Basford, Stoke-on-Trent, England
 Hindes, Stanley V., 88 Union Ave., Pittsburgh 5, Pa.
 Hinds, H. Clark, The Harker Pottery Co., East Liverpool, Ohio
 Hines, Robert A., 1722 Del Norte Ave., St. Louis 17, Mo.
 Hinkins, E. A., Tygart Valley Glass Co., Washington, Pa.
 Hintze, Wollmar, W: son, Agatan 12 A., Bromolla; Sweden
 Hirssig, Carl F., 4554 Westway, Toledo 12, Ohio
 Hirst, Robert G., 1100 Cumberland Ave., Syracuse, N. Y.
 Hiscock, Harley J., Fuller Merriam Co., Box 69, West Haven, Conn.
 Hitchins, R. A., National Refractories Co., Inc., 17th Floor, Lewis Tower Bldg., 225 S. 15th St., Philadelphia 2, Pa.
 Hoagbin, Joseph E., 1200 W. Cross St., Ypsilanti, Mich.
 Hoare, Henry A., 2655 Sharnondale Dr. N. E., Atlanta, Ga.
 Hobson, Joe P., Box 708, Denton, Texas
 Hockaday, R. B., General Delivery, Richlands, Va.
 Hocker, C. Richard, 15 Pearl Rd., Naugatuck, Conn.
 Hocking, William J., 1612 Pennsylvania Ave., East Liverpool, Ohio
 Hodgdon, Frank B., Box 4132, N. Chattanooga Sta., Chattanooga 5, Tenn.
 Hodson, George N., The Hall, Wymeswold, Near Loughborough, England
 Hoehl, Joseph W., Wolverine Porcelain Enameling Co., 3350 Scotten Ave., Detroit 10, Mich.
 Hoelscher, Max W., 5010 Mayfield Rd., Lyndhurst 24, Ohio
 Hoenig, Clarence L. (S), 319 Bailey Rd., Crystal City, Mo.
 Hoeppner, W. L., Latchford-Marble Glass Co., Box 4707, Florence Branch, Los Angeles 1, Calif.
 Hoffman, Carl R. (J), 1308 Seventh St., Moundsville, W. Va.
 Hoffman, Lewis C., 213B Thomas Dr., Monroe Park Apts., Wilmington, Del.
 Hoffman, Sidney C., 2020 Margaret Ave., Scranton, Pa.
 Hoffman, Willard H. J., 8 Dunganrie Rd., Baltimore 28, Md.
 Hoffner, Jere R., T. C. Wheaton Co., Millville, N. J.
 Hofstetter, G. W., Ferro Corp., 336-338 N. Central Ave., Chicago 44, Ill.
 Hogan, Thomas W., Flintridge China Co., 380 S. Raymond Ave., Pasadena 2, Calif.
 Hogenobler, H. R., Fiberglass Contracting & Supply Co., 4610 Smith Rd., Cincinnati 12, Ohio
 Hogenson, William, Chicago Vitreous Enamel Product Co., 1427 S. 55th Court, Cicero 50, Ill.
 Hohmann, Frederick R., 1012 Parkview Ave., New Kensington, Pa.
 Holdener, Irwin K.,† Hill Top Tr. Ct., Bedford, Ohio
 Holl, Barton A., Logan Clay Products Co., Logan, Ohio
 Holl, Barton S.,† 479 E. Main St., Logan, Ohio
 Holler, Robert W. (J), Bausch & Lomb Optical Co., 635 St. Paul St., Rochester 2, N. Y.
 Holley, Kenneth E., 113 Pritchard Ave., Corning, N. Y.
 Holmes, John M., Lee Brick & Tile Co., Sanford, N. C.
 Holmes, Lyle A., Apt. 3, 49 Parke St., Crafton 5, Pa.
 Holmstrom, Joseph H.,† 4316 Cedar Ave., Minneapolis, Minn.
 Holscher, H. H.,* Owens-Illinois Glass Co., Administrative Research, 1700 Westwood Ave., Toledo 1, Ohio
 Holst, Tage, Vinkelvej 10, Kongens Lyngby, Denmark
 Holterhoff, A. Gray, 307 E. Fourth St., Cincinnati 2, Ohio
 Hommel, O., Co., (E. M. Hommel), Box 475, Pittsburgh 30, Pa.
 Hommel, E. M., O. Hommel Co., Box 475, Pittsburgh 30, Pa.
 Honsberg, Werner, Apartado 508, Mexico D. F., Mexico

- Hood, Clyde, 1800 Keith Bldg., Cleveland 15, Ohio
Hood, Harrison P.,* 260 Delevan Ave., Corning, N. Y.
Hooper, Bradford, 5 Point O'Woods Lane, Darien, Conn.
Hoover, Charles H., 609 Wilton Rd., Towson 4, Md.
Hopkins, C. R., Jr., Hopkins Bros., Box 897, Alliance, Ohio
Hopkins, Robert W., Calumite Co., Box 151, Hamilton, Ohio
Horak, William,*† 223 Raymond Rd., West Hartford 7, Conn.
Horn, William F. (S), B. F. Drakenfeld & Co., Inc., Research and Development Lab., Washington, Pa.
Hornfischer, Harvey W., 377 W. Brockton, Royal Oak, Mich.
Hornung, Roy A.,*† Armstrong Cork Co., Lancaster, Pa.
Hornung, Martin R.,† 140 E. Sheridan Ave., New Castle, Pa.
Hopper, R. T., Hanovia Chemical & Mfg. Co., 1 W. Central Ave., East Newark, N. J.
Horton, Paul B.,† Locke Dept., General Electric Co., Box 57, Baltimore 3, Md.
Hossenlopp, Arthur M.,† 28 Kendall Ave., Maplewood, N. J.
Hostetler, Stanley F., Univis Lens Co., 401 Leo St., Dayton 1, Ohio
Hostetter, J. C.,*† 1561 Dale Ave., Winter Park, Fla.
Houchins, Henry R., Carborundum Co., Niagara Falls, N. Y.
Houdeshell, Robert J., 215 Basswood Ave., Apt. B, Dayton 5, Ohio
Hough, James T. (S), 656 Llewellyn Place, Charlotte, N. C.
Houghton, Amory, The Knoll, Corning, N. Y.
Houlahan, C. A., Builders Brick Co., 3800 Ninth Ave. S., Seattle, Wash.
Houska, Joseph L., 707 Noble St., Norristown, Pa.
Housman, George S., Box 17, Norristown, Pa.
Houze, Armand L., Sr., L. J. Houze Convex Glass Co., Point Marion, Pa.
Houze, Armand L., Jr., L. J. Houze Convex Glass Co., Point Marion, Pa.
Houze, L. J., Convex Glass Co. (Armand L. Houze, Sr.), Point Marion, Pa.
Howat, Walter L.,* 85 Hopping Ave., Staten Island 7, N. Y.
Howatson, John, Box 11, Corning, N. Y.
Howatt, Glenn, Bldg. 6B, Apt. 3, Redfield Village, Metuchen, N. J.
Howe, Elroy E.,† Chicago Vitreous Enamel Product Co., 1401-47 S. 55th Court, Cicero 50, Ill.
Hower, Lawrence D., Jr.,† Raybestos Div., 75 E. Main St., Stratford, Conn.
Hower, R. S., Allen Bradley Co., Milwaukee, Wis.
Howie, Thomas W., Campbell & Co., (Roughcastle) Ltd., Roughcastle Works, Falkirk, Scotland
Hoyet, Eugene, R. R. 2, Box 332, Tarentum, Pa.
Hsu, Ku-hua, 65 Austin Rd. Ground Floor, Kowloon, Hongkong
Hsu, P. C., Taiwan Tobacco & Wine Bureau, Bottle Plant, Ching-Mai, Taipei District, Taiwan, China
Huber, George S. (J), 509 F Castle Dr., Baltimore 12, Md.
Huber, Harold V., 1300 Rancho Rd., Arcadia, Calif.
Huber, J. M., Corp. (H. F. Jones, Jr.), 100 Park Ave., New York, N. Y.
Hubler, William G., Lakefield Research, Ltd., Box 430, Lakefield, Ont., Canada
Hudson, Charles J., 74 Newton St., W. Boylston, Mass.
Hudson Supply & Equipment Co. (H. W. Heine), 1727 Pennsylvania Ave. N. W., Washington 6, D. C.
Huettig, Fred R.,† 21-B-3 Redfield Village, Metuchen, N. J.
Huffcut, Harold W., Westinghouse Elec. Corp., Electronic Tube Div., Box 284, Elmira, N. Y.
Hufford Machine Works, Inc. (H. P. Smith, Jr.), 1700 E. Grand Ave., El Segundo, Calif.
Hughes, George B., 710 Plum St., Erie, Pa.
Hughes, Walter M.,† 534 Putnam Ave., Zanesville, Ohio
Hui, William L. C., 2516 S. Washington St., Marion, Ind.
Hull Pottery Co., (J. Brannon Hull), Crooksville, Ohio
Hull, J. Brannon, Hull Pottery Co., Crooksville, Ohio
Hulse, Charles O. (S), 3337 Ing. Sq., Box 361, Scott AFB, Ill.
Humenik, Michael, Jr., 20613 W. Chicago Detroit 29, Mich.
Hummel, Floyd A., School of Mineral Industries, Pennsylvania State College, State College, Pa.
Hummel, Richard, 615 Olympia Rd., Pittsburgh 11, Pa.
Hummel, Roy, 4318 Grantley Rd., Toledo 13, Ohio
Hammers, William S., Jr., Mellon Institute, 4400 Fifth Ave., Pittsburgh 13, Pa.
Humphrey, Kenneth F., 67 Crestwood Ave., Kitchener, Ont., Canada
Humphrey, Richard A., Mycalex Corp. of America, 60 Clifton Blvd., Clifton, N. J.
Humphries Mfg. Co. (W. G. Moore), 201 E. Fifth St., Mansfield, Ohio
Hund, George J., Columbia Dr., Chester, W. Va.
Hunt, Charles W., 154 Vincent St., Chagrin Falls, Ohio
Hunt, Frank S.,† 2494 Page Dr., Altadena, Calif.
Hunt, George, General Steel Wares, Ltd., 199 River St., Toronto, Ont., Canada
Hunt, Herbert J., Kimble Glass Co., Vineland, N. J.
Hunt, John F.,† Orefraction, Inc., 7425 Thomas St., Pittsburgh 8, Pa.
Hunter, Charles E., 55 Henrietta St., Asheville, N. C.
Hunter, Richard S., 5421 Brier Ridge Rd., Falls Church, Va.
Hunting, Everett C.,† 2333 Channing Way, Apt. 25, Berkeley 4, Calif.
Huppert, Paul A.,† 115 Granger St., Canandaigua, N. Y.
Hurd, Burgess M., 506 14th Ave., New Brighton, Pa.
Hurlbut, Wendell P., III (S), 2105 Sunset Ave., Seattle 6, Wash.
Hurley, Robert C. (S), Porcupine Plain, Sask., Canada
Hursh, Ralph K.,*† University of Illinois, Urbana, Ill.
Hurst, Erwin J., Research Dept., Plant 3, General Ceramics & Steatite Corp., Keasbey, N. J.
Hurst, Thomas L., Monsanto Chemical Co., Columbia, Tenn.
Hutch, Herbert T., 421 Parker St., Newark 4, N. J.
Hutchison, Clark, 709 E. Armstrong St., Frankfort, Ind.
Hutchison, R. C.,† 2133 Newton Ave., Bethlehem, Pa.
Hutt, Glenn A., 19629 Scottsdale Blvd., Shaker Heights 22, Ohio
Hutt, Gordon M., Canadian Pacific Railway, Rm. 703, Windsor Sta., Montreal, Que., Canada
Huyck, L. G., Huyck Construction Co., 2946 N. 78th Court, Elmwood Park 35, Ill.
Hvid, Niels, Aktieselskabet Bing & Grondahls Porcellaensfabrik, 95, Valby Langgade, Copenhagen, Valby, Denmark
Hyatt, Edmond P., Dept. of Geology, Brigham Young University, Provo, Utah
Hyde, Collin,† 581 Oxford St., Worthington, Ohio
Hyland, J. A., Pacific Coast Borax Co., 2295 Lumber St., Chicago 16, Ill.
Hynes, Frank J.,† Oxbow Rd., South Lincoln, Mass.
Hyslop, Joseph F., "Dromore," Major's Loan, Falkirk, Scotland
- I
- Iander, J. Richard, Pacific Coast Ceramic News, 2711 Bowmont Dr., Beverly Hills, Calif.
Ichikawa, Yoshio (S), Box 102, Alfred, N. Y.
Ihrig, Allen C., Jr., 222 Decatur St., Corning, N. Y.
Iles, Ramon R., 2223 St. James Ct., Owensboro, Ky.
Iliff, Fred K., Harshaw Chemical Co., Jackson & Swanson Sts., Philadelphia, Pa.
Illing, Arno M., 5412 Laconia, Cincinnati 37, Ohio
Illinois Clay Products Co. (Otis L. Jones), 68 N. Chicago St., Joliet, Ill.
Illyn, Alexis V. (S), 183 Bevier Rd., University Hgts., New Brunswick, N. J.
Imhoff, Edward J., United States Glass Co., Glassport, Pa.
Immediato, Robert R. † (J), 40 Caryl Ave., Yonkers 5, N. Y.
Imperial Glass Corp. (C. J. Uhrmann), Bellaire, Ohio
Indian Ceramic Society, Dept. of Ceramics, Benares Hindu University, Benares, India
Indiana Glass Co. (Charles L. Gaunt), Dunkirk, Ind.
Industrial Ceramic Products, Inc. (W. E. Cramer), 965 W. Fifth Ave., Columbus 8, Ohio
Indyk, Albert D. (S), 21 Birriga Rd., Bellevue Hill, Sydney, N. S. W. Australia
Ingersoll, Harry, 5429 N. Tyler Ave., Temple City, Calif.
Ingham, David, 2794 St. Clair Ave., East Liverpool, Ohio
Insley, Herbert,* National Bureau of Standards, Washington 25, D. C.
Insley, Robert H., Champion Spark Plug Co., Ceramic Div., 8525 Butler Ave., Detroit 11, Mich.
International Ceramic Mining, Ltd., 54 Wellington St. W., Toronto, Ont., Canada
International Clay Machinery Co. (R. H. McElroy), 1145 Bolander Ave., Dayton, Ohio
International Commission on Glass, B. P. Dudding, Research Laboratories, General Electric Co., Ltd., Wembley, Middlesex, England
International Minerals & Chemical Corp., Consolidated Feldspar Dept. (H. B. DuBois), Erwin, Tenn.
Ireland, John, International Tin Research Council, Fraser Rd., Greenford, Middlesex, England
Ironton Fire Brick Co. (J. H. Rickey, Jr.), Box 124, Ironton, Ohio
Irvine, George C.,† Canadian Carborundum Co., Ltd., Niagara Falls, Ont., Canada
Irwin, Joseph T., 1618 Elmwood Ave., Lakewood 7, Ohio
Irwin, Philip P., Potters Supply Co., East Liverpool, Ohio
Irwin, William W., Potters Supply Co., East Liverpool, Ohio
Isaacs, Richard P., 78 Elmwood Dr., Livingston, N. J.
Isagawa, Jun, Nippon Toki Kaisha, Ltd., 1, Noritakeshimachi, Nishiku, Nagoya, Japan
Isenhour, C. W., Jr., Box 1249, Salisbury, N. C.
Isenhour, John H.,* 215 Confederate Ave., Salisbury, N. C.

Isoldi, Virgilio, Ceramica Sao Caetano S/A, Caixa Postal 278, São Paulo, Brazil
 Ito, Shozo, Nippon Gaishi Kaisha, Ltd., 1, 2-Chome, Horitadori, Mizuho-ku, Nagoya, Japan
 Itchner, Robert, Tannenrauchstrasse 106, Zürich 38, Switzerland
 Ives, John B., 18 Standish St., Frostburg, Md.

J

Jackel, Roland D., 6700 N. Williamsburg Blvd., Arlington 13, Va.
 Jackson Vitrified China Co. (Philip R. Distillator), 2 West St., Pelham Manor 65, N. Y.
 Jackson, A. Curtis,*† 750 S. Clayton St., Denver, Col.
 Jackson, James, "Ashgrove," St. Andrews Ave., Bothwell, Lanark, Scotland
 Jackson, L. P., Mid-West Abrasive Co., Owosso, Mich.
 Jackson, Mary A., Apt. 3, 1313 Grove St., Berkeley, Calif.
 Jackson, Wharton, Petroleum Bldg., 714 W. Olympic Blvd., Los Angeles 15, Calif.
 Jackson, William M., II, 32 Oakland St., Watertown, Mass.
 Jacob, Bernard T., National Crucible Co., Philadelphia 18, Pa.
 Jacobs, Charles W. F., 19 A Longmeadow Rd., Eggertsville 23, N. Y.
 Jacobs, H., Box 117, Vereeniging, Transvaal, Union of South Africa
 Jacobs, Louis J., Ramtite Co., 2563 W. 18th St., Chicago 8, Ill.
 Jacobs, Richard A., Brockway Glass Co., Inc., Brockway, Pa.
 Jacobson, Edwin† (J), Corning Glass Works, Corning, N. Y.
 Jacoby, William R. (S), 215 Adelaide Ave., Highland Park, N. J.
 Jaffe, Bernard,† 1446 Kanawha St., Hyattsville, Md.
 Jansma, Frank, B. F. Drakenfeld & Co. Inc., Washington, Pa.
 Janssen, William F., 15 Oak Ridge Rd., Basking Ridge, N. J.
 Jasani, Mahendra R. (S), 198 Jamshedji Tata Rd., Bombay 1, India
 Jasper, Stanley J. (S), General Delivery, Alfred, N. Y.
 Jeffers, Phillip Eugene (J), Box 125, Gardner, Ill.
 Jeffrey, Benjamin A., Box 32, Tumacacori, Ariz.
 Jeffrey, G. H., Roder Ceramic Studio, 1331 Race St., Philadelphia 7, Pa.
 Jelinek, James W. (S), 1203 Seventh Ave., Marion, Iowa
 Jenks, C. E., W. S. Tyler Co., 3615 Superior Ave., N. E., Cleveland 14, Ohio
 Jennings, James W., Quaker Silver Co., North Attleboro, Mass.
 Jensen, Edwin K., 3654 Old York Rd., Baltimore 18, Md.
 Jeppson, George N.,* Norton Co., Worcester 6, Mass.
 Jeppson, John, 40 Westwood Dr., Worcester, Mass.
 Iero, Parker, 119 Riverview Ct., CMR 158, Peoria Heights, Ill.
 Joeckel, Stanley V., American Fused Quartz Co., Dover, N. J.
 Johns-Manville Sales Corp. (J. C. Crawford, Jr.), 22 E 40th St., New York 16, N. Y.
 Johnson, Alexander H., H. L. Brisbane & Wunderlich, Ltd., Lord St., East Perth, West Australia
 Johnson, Alton E.,† 2062 N. Ludington Ave., Wauwatosa 13, Wis.
 Johnson, A. L.,* Universal-Rundle Corp., Box 960, New Castle, Pa.
 Johnson, A. M., Ross-Tacony Crucible Co., Tacony, Philadelphia 35, Pa.
 Johnson, Arnold G., 7287 Thomas Dr., Maderia, Ohio
 Johnson, Ben (S), Box 485, Rolla, Mo.
 Johnson, Boyd M., Carborundum Co., Box 268, Perth Amboy, N. J.
 Johnson, Delmar A., 94 E. Third St., Corning, N. Y.
 Johnson, Fred H., Jr., Summitville, Ohio
 Johnson, George E., Jr.,† Gladding, McBean & Co., Pittsburg, Calif.
 Johnson, Gordon H., 5425 Knollwood Dr., Apt. 4, Parma 29, Ohio
 Johnson, Harold C., Corning Glass Works Laboratory, Corning, N. Y.
 Johnson, J. A., Service Engineers, Ltd., Leek New Rd., Cobridge, Burslem, Stoke-on-Trent, England
 Johnson, James R.,† 109 Newberry Circle, Oak Ridge, Tenn.
 Johnson, Lee J., Alexander Rd., Box 43, Princeton Junction, N. J.
 Johnson, LeRoy A., 1206 Cleveland St., Evanston, Ill.
 Johnson, Paul V., Structural Clay Products Research Foundation, 20 N. Wacker Dr., Chicago 6, Ill.
 Johnson, Richard C. (S), 4 Perine St., Dansville, N. Y.
 Johnston, J. G., The Leeds Fireclay Co., Ltd., Wortley, Leeds 12, England
 Johnston, James K., R. R. 5, Hagerstown, Md.
 Jones, Cecil M., II, 2814 Jordan St., Fleming Heights, Augusta, Ga.
 Jones, Edgar, 426 Old Lancaster Rd., Haverford, Pa.
 Jones, Frank L., Windsor Rd., Fox Chapel, Pittsburgh 15, Pa.

Jones, George A., Box 112, East Sparta, Ohio
 Jones, Harlow G., Mid West Abrasive Co., 510 S. Washington St., Owosso, Mich.
 Jones, H. F., Jr., J. M. Huber Corp., 100 Park Ave., New York, N. Y.
 Jones, Howard E., Jr., 19150 Robson, Detroit 35, Mich.
 Jones, Maynard J., Pfadler Co., 1000 West Ave., Rochester 11, N. Y.
 Jones Metal Products Co., West Lafayette, Ohio
 Jones, Otis L., Illinois Clay Products Co., 68 N. Chicago St., Joliet, Ill.
 Jones, Paul R., Mineral Industries Bldg., West Virginia University, Morgantown, W. Va.
 Jones, Richard E., Pittsburgh Plate Glass Co., Research Laboratory, Creighton, Pa.
 Jones, Robert O., Box 3, Gabbs, Nev.
 Jones, Lt. Col. Rodney A., Headquarters ARDC, Box 1395, Baltimore, Md.
 Jontz, Melvin L., United Clay Mines Corp., 5028 Alhambra Ave., Los Angeles 32, Calif.
 Jordan, Duane R. (S), 220 Belmont Ave., Oneida, N. Y.
 Jordan, John N., Consumers Glass Co., Ltd. Box 456, Sta. B, Montreal, P. Q., Canada
 Jordan, John W., Baroid Sales Div., National Lead Co., Box 1675, Houston 1, Texas.
 Jordan, R. E., Jr., Mosaic Tile Co., Zanesville, Ohio
 Jordan, Thomas B., Mosaic Tile Co., 829 N. Highland Ave., Hollywood 38, Calif.
 Jordan, William M., Weber Dr., R. R. 11, Pittsburgh 15, Pa.
 Joseph, A. David (S), Box 3, Alfred, N. Y.
 Jova Brick Works (J. L. Jova), Roseton, N. Y.
 Jova, J. L., Jova Brick Works, Roseton, N. Y.
 Joyner, Bobby L., 203 Lighthouse St., Erie, Pa.
 Juels, David, American Lead Pencil Co., 500 Willow Ave., Hoboken, N. J.

K

Kadey, Frederic L., Jr., 1825 Quimby Lane, Westfield, N. J.
 Kaelke, E. K., 411 W. Calhoun St., Macomb, Ill.
 Kahlson, W. S., General Electric Co., Lamp Dept., Pitney Glass Works, Nela Park 12, Cleveland Ohio
 Kaiser, Alan D. (S), Alfred University, Box C-C, Alfred, N. Y.
 Kallauner, Otakar, Státní vyzkumny ustav silikatory, Zizkova 7, Brno, Czechoslovakia
 Kallstedt, C. H., Public Service Co. of Northern Ill., 50 Fox St., Aurora, Ill.
 Kallup, Charles, Jr. (S), Box 716, Alfred, N. Y.
 Kalman, Frank R.,† 2808 Mayfield Rd., Apt. 405, Cleveland Heights 18, Ohio
 Kalousek, George L., 2633 Merrimac Blvd., Toledo 6, Ohio
 Kamich, Barnet Z., 11 Garwood St., South River, N. J.
 Kane, John L., 7050 Glen Meadow Lane, Cincinnati, Ohio
 Kantner, Ogden A., R.R. 1, Pennington, N. J.
 Karkhanavala, M. D., 239 Botawala Bldg., Tardeo, Bombay 7, India
 Kast, Henry G. (S), Box FF, Alfred, N. Y.
 Kasten, Vernon L.,† Three Oaks, Box 84, Jackson, Mo.
 Katnack, Fred, Jr. (S), Box CC, Alfred, N. Y.
 Katz, Joseph M., General Ceramics & Steatite Corp., Crows Mill Rd., Keasbey, N. J.
 Katz, Sigmund, Orange Ceramic Lab., 17 Kenz Terrace, West Orange, N. J.
 Kauffman, John R.,*† Tuttle & Kift, Inc., Subsidiary, Ferro Corp., 1823 N. Monitor Ave., Chicago 39, Ill.
 Kautz, Karl,*† 754 Rotch Ave., N. E., Massillon, Ohio
 Kawaguchi, Tad,*† Republic Steel Corp., 6100 Truscon Ave., Cleveland, Ohio
 Kay, William L., E. J. Bartells Co., 1212 Sixth Ave., Seattle 4, Wash.
 Kaylor, William B. (S), Box 4337, Virginia Tech. Sta., Blacksburg, Va.
 Kayser, Julius A., Gladding, McBean & Co., 2901 Los Feliz Blvd., Los Angeles 39, Calif.
 Keaney, J. C., 1201 Banksville Rd., Pittsburgh 16, Pa.
 Keat, Paul P. (S), Ceramics Bldg., Rutgers University, New Brunswick, N. J.
 Kebler, Leonard, Ward-Leonard Electric Co., Mt. Vernon, N. Y.
 Keener, Harry J., General Color & Chemical Co., Inc., Box 7, Minerva, Ohio
 Keith, Wendell P.,† 1234 E. Sixth St., Whittier, Calif.
 Kellenberger, George E., Niles Glass Works, 403 N. Main, Niles, Ohio
 Keller, Francis, Pfungen, Switzerland
 Kelley, J. A., Zonolite Co., Travelers Rest, S. C.
 Kelly, Austin J., 224 Glasgow St., Guelph, Ont., Canada
 Kelly, George D.,† (J), 622 Center St., St. Marys, Pa.
 Kelly, Hal J., 4714 20th N.E., Seattle 5, Wash.
 Kelly, John V., Kaiser Steel Corp., Box 217, Fontana, Calif.

Kelly, William J., Box 188, Hondo, Texas
 Kelsey, V. V.,* Dominion Minerals Inc., Piney River, Va.
 Kelton, Stanton C., Jr., Rohm and Haas Co., Bristol, Pa.
 Kemp, John A., Jr., 22509 Gaycrest Ave., Torrance, Calif.
 Kempf, William C.,† 28 Homer Place, Metuchen, N. J.
 Kenagy, William L.,† Huntingdon Valley, Pa.
 Kenan, Wilfred M. (S), R.R.2, Clinton, N. C.
 Kendrick, Robert W. (S), 21-A Vetville, State College Sta., Raleigh, N. C.
 Kendrick, Thomas B., Lancaster Lens Co., 220-226 W. Main St., Lancaster, Ohio
 Kennaday, Clinton R., R. R. 4, New Castle, Pa.
 Kent, Joseph P.,† 247 Starr St., Brooklyn 37, N. Y.
 Kent, N. Johnson,† Johns-Manville Sales Corp., 22 E. 40th St., New York 16, N. Y.
 Kent, William B.,† W. S. George Pottery Co., Canonsburg, Pa.
 Kentucky Clay Mining Co. (W. J. Watkins), Mayfield, Ky.
 Kentucky-Tennessee Clay Co. (Chester Gulick), 807 City Savings Bldg., Alliance, Ohio
 Kenworthy, Orville O., 1472 Cordova Ave., Lakewood 7, Ohio
 Kenya Kyanite, Ltd., 28 Eccleston St., London, S. W., England
 Kenyon, Clark, Frenchtown Porcelain Co., Frenchtown, N. J.
 Kepka, George M., Braun Corp., 2260 E. 15th St., Los Angeles 21, Calif.
 Keplinger, Robert B.,*† 219 17th St., N.E., Canton 4, Ohio
 Kerla, Hans, 525 Beaumont Ave., Baltimore 12, Md.
 Kerper, Matthew J., National Bureau of Standards, Washington, D. C.
 Kerr, Charles H.,* 2861 Chatsworth Blvd., San Diego 6, Calif.
 Kerr, W. Raymond,*† Armstrong Cork Co., Box 441, Beaver Falls, Pa.
 Kershner, William G.,† 117 S. 14th St., Olean, N. Y.
 Kibler, H. W., Southern Potteries, Inc., Box 279, Erwin, Tenn.
 Kiehl, Harry R., 223 Chemung St., Corning, N. Y.
 Kiesow, Paul F. (J), 243½ College Ave., Elmira Heights, Elmira, N. Y.
 Kilgore Ceramics Corp. (D. H. Walkup), Box 1619, Kilgore, Texas
 Killmar, Henry M.,† 107 Park Lane, River Oaks, Fair Haven, N. J.
 Kimble Glass Co. (H. R. Black), 2626 Dorr St., Toledo, Ohio
 Kimes, A. W., National Glass Budget, 800 Grogan Bldg., 541 Wood St., Pittsburgh 22, Pa.
 Kimpel, Raymond R., 1761 Harvard St., N. W., Washington 9, D. C.
 Kimpel, Robert F., 1138 N. Alameda Ave., Azusa, Calif.
 King, Burnham W., Jr.,*† 2564 Welsford Rd., Columbus 21, Ohio
 King, Charles B., 189 Cedar St., Corning, N. Y.
 King, Harry M. (S), Friley Hall, Ames, Iowa
 King, Maxon H., Hill Blvd., East Liverpool, Ohio
 King, R. M.,*† Lord Hall, Ohio State University, Columbus 10, Ohio
 King, Robert G., 143 N. Center St., Grove City, Pa.
 King, Walter F., Spruce Terrace, Portland, Conn.
 Kingery, W. D. (J), Ceramics Div., Mass. Inst. of Tech., Cambridge, Mass.
 Kingman, W. W., Georgia Pigment Co., Sandersville, Ga.
 Kinsman, Bradley Q.,† (J), 905 DeKalb St., Norristown, Pa.
 Kinzie, C. J.,* Box 245, Youngstown, Niagara County, N. Y.
 Kircher, Paul J., Maryland Glass Corp., 2147 Wicomico St., Baltimore 30, Md.
 Kirchner, Henry P. Jr. (S), Box 213, Pine Grove Mills, Pa.
 Kirk, Edwin, U. S. National Museum, Washington 25, D. C.
 Kirkendale, G. A.,† Dept. of Ceramic Engineering, New York State College of Ceramics, Alfred, N. Y.
 Kirkpatrick, Frank,*† 41 Fifth St., Apt. C., Hermosa Beach, Calif.
 Kirsch, Alfred J., 48 Center St., Hornell, N. Y.
 Klane, Frank, Corning Glass Works, Corning, N. Y.
 Klaus, Irving, 19-B Hawthorne Dr., New Brunswick, N. J.
 Klaus, Sol C., Jr., 50 S. Munn Ave., Apt. 804, East Orange, N. J.
 Klausmann, H., Baker & Co., Inc., 113 Astor St., Newark, N. J.
 Kleeman, Lee A., Box 568, New Orleans 7, La.
 Kleiman, Martin M. W., 270 Selkirk Ave., Winnipeg, Man., Canada
 Klekotka, Joseph F., 3601 Reed St., Philadelphia 46, Pa.
 Kleymeyer, Clifford A., Standard Brick and Tile Corp., Evansville 8, Ind.
 Kliman, Morton I. (S), 6 Sutton St., Mattapan 26, Mass.
 Kline, Hugh L., Corhart Refractories Co., Inc., 1600 W. Lee St., Louisville 10, Ky.
 Klinefelter, T. A.,*† Box 201, Norris, Tenn.
 Klipper, Joseph, Clipper Diamond Tool Co., Inc., 21 W. 46th St., New York 36, N. Y.
 Klocke, Edward J., H. C. Spinks Clay Co., Inc., 1000 First National Bank Bldg., Cincinnati 2, Ohio
 Klockner, Herman Richard, Research Laboratory, Universal-Rundle Corp., New Castle, Pa.
 Knapp, Robert C., 26 Virginia Ave. N. W., Glen Burnie, Md.
 Knapp, Thomas E., 1314 Wilmington Ave., New Castle, Pa.
 Knapp, William J.,† Dept. of Engineering, University of California, Los Angeles 24, Calif.
 Knauf, Robert W., Charles Taylor Sons Co., Box 58, Annex Sta., Cincinnati 14, Ohio
 Knecht, Albert O.,† 201 Edgewood Ave., New Castle, Pa.
 Knight, E. H., Maurice A. Knight Sons Co., Box 150, Crooksville, Ohio
 Knight, M. A., Jr., Maurice A. Knight, "Knight-Ware," Box 111, Akron 9, Ohio
 Knight, Maurice A., "Knight-Ware" (M. A. Knight, Jr.), Box 111, Akron 9, Ohio
 Knight, Mellen A., Central Research Dept., Minnesota Mining & Mfg. Co., 367 Grove St., St. Paul 1, Minn.
 Knighton, Heywood J., 834 Trombley Rd., Grosse Pointe Park 30, Mich.
 Knizek, Jan O., Apartado 2739, Mexico, D.F., Mexico
 Knoblauch, Walter C.,† 512 N. Washington St., Tiffin 9, Ohio
 Knowles, Edwin M., China Co. (W. L. Peskin), Newell, W. Va.
 Knowles, William V.,* 8905 Champlain Ave., Niagara Falls, N. Y.
 Knowlton, Samuel H., 610 New Center Bldg., Detroit 2, Mich.
 Knox, James J., 5 Meinzer St., Avenel, N. J.
 Knudsen, Friedrich P.,† 4205 Eastern Ave., Mt. Rainier, Md.
 Knudsen, Rolf, Borgestad, P. A., Norway
 Koch, Daniel O., 826 Crescent Dr., Rahway, N. J.
 Koch, Frank A., National Sales Corp., 307 E. Fourth St., Cincinnati 2, Ohio
 Koch, M. R., Dept. of Fine Arts, Omaha University, 60th & Dodge Sts., Omaha, Neb.
 Koch, Ing. Renato, Direttore Stabilimento Tubi Elettronici, Marconi S.I.P.A., Via Pile, L'Aquila, Italy
 Koch, William J., P. R. Mallory & Co., E. Washington St., Indianapolis 6, Ind.
 Kochanek, Michel (S), 1030 Douglas Rd., Lincoln Village, Stockton, Calif.
 Koehler, W. A.,† Mineral Industries Bldg., West Virginia University, Morgantown, W. Va.
 Koenig, Charles J.,*† Engr. Expt. Sta., Ohio State University, Columbus 10, Ohio
 Koenig, E. W., Consolidated Feldspar Dept., International Minerals and Chemical Corp., Erwin, Tenn.
 Koenig, F. J. M., 1053 Sunset Cliffs Blvd., San Diego 7, Calif.
 Koenig, John H.,*† Rutgers University, School of Ceramics, New Brunswick, N. J.
 Kohl, Hans, Leerbachstr. 117, Frankfurt A. M., Germany
 Kohler Co. (G. P. Gavin), Kohler, Wis.
 Kohler, Anthony M., Babcock & Wilcox Co., 161 E. 42nd St., New York 17, N. Y.
 Kohman, Girard T., 133 Ashland Rd., Summit, N. J.
 Kohn, Joseph, Universal Dental Co., 48th & Brown Sts., Philadelphia 39, Pa.
 Kohne, Frank H., 1700 Third Ave., New Brighton, Pa.
 Komac, Thomas N., Republic Steel Corp., 6100 Truscon Ave., Cleveland 4, Ohio
 Konopicky, Kamillo, Millstatt, No. 76, Kaernten, Austria
 Konowitch, Gilbert D. (J), 118 E. Pine Ave., Wildwood, N. J.
 Konrad, Howard E., 20 Brookside Ave., Apt. 1A, Somerville, N. J.
 Kooij, K., Chamotte Unie N. V., Tielerweg Geldermalsen, Holland
 Koos, E. K.,† Sterling China Co., East Liverpool, Ohio
 Kopp Glass, Inc. (C. E. Leberknight), Box 8255, Pittsburgh 18, Pa.
 Koppers Co., Inc. (C. R. Austin), Research Dept. Koppers Bldg., Pittsburgh 19, Pa.
 Kora, Yosio, 2-chome, Katsuyama-Cho, Yahata, Fukuoka, Japan
 Koshuba, Walter J., General Electric Co.-ANP Project, Box 132, Cincinnati 15, Ohio
 Kowal, Leo B. (J), Canadian Pittsburgh Industries, Ltd., 60 Blvd. St. Croix, Ville St. Laurent, Que., Canada
 Kowal, Paul J., 98 Idle Lane, Rochester 20, N. Y.
 Kowalka, Warren R., Libbey-Owens-Ford Glass Co., 1701 E. Broadway, Toledo 5, Ohio
 Kraft, C. W., Krafttile Co., Niles, Calif.
 Kraft, Donald E. (S), Co. A, 185th Signal Bn., Camp Polk, La.
 Kraft, Maurice M., Kraft Chemical Co., 917 W. 18th St., Chicago, Ill.
 Kraft, Ralph G. (S), 4120 N. 135th St., Milwaukee, Wis.
 Krafttile Co. (C. W. Kraft), Niles, Calif.
 Kramer, William M., Adamston Flat Glass Co., Clarksburg, W. Va.
 Kraner, Hobart M.,*† Research Dept., Bethlehem Steel Co., Bethlehem, Pa.

Kreger, John M., Valentine Fire Brick Co., Div. A. P. Green Co., Woodbridge, N. J.
 Kreglo, James R., Jr. (S), Box 5035, Va. Tech. Sta., Blacksburg, Va.
 Krehbiel, Frederick H., Accurate Pyrometric Cone Co., Pataskala, Ohio
 Krehbiel, H. Orton, Accurate Pyrometric Cone Co., Pataskala, Ohio
 Kreidl, E. L., A. D. Little, Inc., 30 Memorial Dr., Cambridge, Mass.
 Kreidl, Norbert J.,* 40 Milford Rd., Rochester 10, N. Y.
 Kretschmar, Ernest, 101 S. Meramec Ave., Clayton 5, Mo.
 Kretzmer, Minor G., Jr., Box 32, Woodstock, Conn.
 Kriegl, William W.,† Ceramic Engineering Dept., N. C. State College, Raleigh, N. C.
 Kriger, Frederick S., 148 E. Second St., Corning, N. Y.
 Krill, Karl E., Office of Ordnance Research, Box CM, Duke Station, Durham, N. C.
 Krishna, Murthy M. (S), Box 364, State College, Pa.
 Krochmal, Jerome J. (S), 935 N. Detroit St., Xenia, Ohio
 Kroeck, William H., Corning Glass Works, Box 544, Corning, N. Y.
 Krogstie, Lars B., Fredrikstad, Norway
 Kronman, Samuel J.,† Carteret China Co., High St., Carteret, N. J.
 Krosch, Donald K., Solaramic Dept., Solar Aircraft Co., 2200 Pacific Highway, San Diego 12, Calif.
 Kruesi, John, American Lava Corp., Chattanooga 5, Tenn.
 Krull, Alan R., Northwestern University, Technological Institute Library, Evanston, Ill.
 Kruson, Joseph H., 79 W. Main St., Frostburg, Md.
 Kuchler, H. C., E. I. du Pont de Nemours & Co., Inc., Electrochemicals Dept., Wilmington 98, Del.
 Kuechler, A. H.,† 435 Nutt Rd., Phoenixville, Pa.
 Kunzman, Edward E.,† 9185 E. Jaylee Dr., Temple City, Calif.
 Kupinski, Thaddeus A., 17 Fulton St., Phoenix, N. Y.
 Kurkjian, Charles R. (S), Graduate House, Massachusetts Institute of Technology, Cambridge 39, Mass.
 Kurtz, Peter, Jr. (S), 103 W. 14th St., Apt. 204, Rolla, Mo.
 Kyanite Mining Corp. (Gene Dixon), Cullen, Va.
 Kyonka, Joseph C.,† 8 N. Blount St., Madison 3, Wis.

L

L & L Mfg. Co. (Joseph Freeman), 804 Mulberry St., Upland, Pa.
 Laboratorio Quimico Nacional, (Jorge Ancizar-Sordo) Ministerio de Minas y Petróleos, Apartado 2577, Bogota, Colombia
 Lachman, Irwin M.,† (S), 32 N. Co-op Circle, Roosevelt, N. J.
 Laclede-Christy Co. (L. C. Hewitt), 4705 Ridgewood Ave., St. Louis 16, Mo.
 Laconich, Sixto G., Porcelana Americana S. A., San Julian y Andes, Lomas de Zamora, F. C. N. G. R., Argentina
 Ladoo, Raymond B., 42 Huntington Rd., Newton 58, Mass.
 Laing, Kenneth M., Glass Research Laboratories, Pittsburgh Plate Glass Co., Creighton, Pa.
 Laird, Charles,† Malvern Brick & Tile Co., Box 355, Malvern, Ark.
 Laird, Robert K., American Radiator & Standard Sanitary Corp., 834 E. Broadway, Louisville 4, Ky.
 LaMaire, Robert V.,† (S), R.R. 2, Box 245, Plainfield, N. J.
 Lamb, O. H., Braun Corp., 2260 E. 15th St., Los Angeles 21, Calif.
 Lambe, C. M.,† United States Gypsum Co., 300 W. Adams St., Chicago 6, Ill.
 Lambertson, Wingate A., University of Toledo, Toledo 6, Ohio
 Lambie, J. M., Findlay Clay Products Co., Washington, Pa.
 Landback, Charles R., Taylor, Smith & Taylor Co., Chester, W. Va.
 Lane, George J., Edgar Plastic Kaolin Co., Edgar, Fla.
 Lane, Richard O.,† 878 White Lake Rd., Munith, R. R. 1, Mich.
 Lang, George F., Carr-Lowrey Glass Co., Box 356, Baltimore 3, Md.
 Lang, Richard L., Ohio Fuel Gas Co., 17 N. Fourth St., Zanesville, Ohio
 Lang, Samuel G., 3534 Spring View Dr., Cincinnati 26, Ohio
 Lang, S. M., 9718 Braddock Rd., Oakview, Silver Springs, Md.
 Lange, James M., Bethlehem Steel Co., Bethlehem, Pa.
 Lange, Louis A., Industrial Heat Control Products, 641 Hawthorne Ave., S. Milwaukee, Wis.
 Lanier, William S., Babcock & Wilcox Co., Old Savannah Rd., Augusta, Ga.
 Lannes, Eugene M.,† 1001 Yearling Rd., Columbus, Ohio
 Lapp Insulator Co., Inc. (K. E. Stettinius), Le Roy, N. Y.
 Lapp, Grover W.,* Lapp Engineering Co., 68 W. Main St., Le Roy, N. Y.
 Lapp, William A., Lapp Engineering Co., 68 W. Main St., Le Roy, N. Y.
 Larisch, Herbert W. (J), 46 Fairview Ave., Valley Stream, N. Y.

Larkin, Paul G., Larkin Tile Co., 1651 Pomona Ave., San Jose 10, Calif.
 LaRocca, Frank J., Colorado Fuel & Iron Corp., Box 316, Pueblo, Col.
 Larson, Paul F., 15 Lincoln Ave., Dundee, Ill.
 Lassman, Benjamin, Benjamin Lassman & Son, R.R. 8, Glenshaw, Pa.
 Latchford-Marble Glass Co. (W. L. Hoepfner), Box 4707 Florence Branch, Los Angeles 1, Calif.
 Latimer, Glen H., 202 Hancock Ave., Norristown, Pa.
 Latimer, Horace L.,† Box 282, West Lafayette, Ohio.
 Lattin, Judson M. (J), International Harvester Co., Wisconsin Steel Works, 2701 E. 106th St., Chicago 17, Ill.
 Laughlin, Homer, China Co. (J. M. Wells), Newell, W. Va.
 Laughrey, James C., 1007 Fourth St., North Braddock, Pa.
 Laurie, Dominic,† Titanium Alloy Div., National Lead Co., Niagara Falls, N. Y.
 Lawhead, Creighton M., 43 W. Sixth St., Corning, N. Y.
 Lawless, Emmett A., Jr., Acme Brick Co., Box 448, Malvern, Ark.
 Lawrence, Frederick P., Edwin M. Knowles China Co., Newell, W. Va.
 Lawrence, Howard O., Industrial Ceramics Ltd., Cooksville, Ont., Canada
 Lawrence, Ralph V., 145 Leonard Dr., Concord, Calif.
 Lawrence, Walter F., Jr.,† 18 Yale St., Apt. C, Nutley, N. J.
 Lawrence, Willis G., New York State College of Ceramics, Alfred, N. Y.
 Lawson, Louis, Jr., West Virginia Pulp & Paper Co., Development Dept., Charleston, S. C.
 Lawson, Robert W., Box 369, Erwin, Tenn.
 Laxton, Wilbur, 126 Market St., Zanesville, Ohio
 Layne, Fred A., Louthan Mfg. Co., East Liverpool, Ohio
 Layton, Donald R. (S), 801 E. Maiden St., Washington, Pa.
 Lea, Arthur C., United Insulator Co. Ltd., Oakcroft Rd., Tolworth, Surrey, England
 Lead Industries Assn. (Robert L. Ziegfeld), 420 Lexington Ave., New York 17, N. Y.
 Leander, Karl Johan, Langgat, 19, Hoganas, Sweden
 Le Bell, Rolf C., Abo Kakelfabriek, Slottsgatan 52, Abo, Finland
 Leberknight, C. E.,* Kopp Glass, Inc., Box 8255, Pittsburgh 18, Pa.
 Leddy, Robert M.,† Box 128, Hammonton, N. J.
 Lee Clay Products Co., Inc. (Martin S. Bowne), Clearfield, Ky.
 Lee, Harley C., Basic Refractories, Inc., 845 Hanna Bldg., Cleveland 15, Ohio
 Lee, James A., 1328 Candler Bldg., Atlanta 3, Ga.
 Lee, P. William,† 205 Elmwood Blvd., York, Pa.
 Lee, Shas Pao, Peiteu Ceramic Plant, Taiwan Industrial & Mining Corp., Peiteu, Formosa
 Lee, Virgil, J., 638 Arkansas St., Lawrence, Kan.
 Lees, Arch A., 411 Avon Dr., Pittsburgh 16, Pa.
 Lefforge, J. W., Monsanto Chemical Co., Anniston, Ala.
 Lefort, Henry G., Jr.,† (J), Box 134, R.R. 1, Upper Marlboro, Md.
 Le Heron, Harold, Etablissements Porcher, Usines de Revin, Ardennes, France
 Leibig, Edward C., Corning Glass Works, Corning, N. Y.
 Leibson, J. S.,† Locke Dept., General Electric Co., Schenectady 5, N. Y.
 Leighton, M. M.,* State Geological Survey, 121 Natural Resources Bldg., Urbana, Ill.
 Leopold, Martin H., Jr. (S), 428 Seventh St., Fairview, N. J.
 Letten, Carl F., 50 Hawkins Ave., Hamburg, N. Y.
 Lelivelt, J. W., Nash-Kelvinator Corp., 1545 Clyde Park Ave., S.W., Grand Rapids 9, Mich.
 Lemmerman, Paul C., Grasselli Chemicals Dept., E. I. du Pont de Nemours & Co., National City Bank Bldg., Cleveland 14, Ohio
 LeMunyon, James S., 250 Wayne St., Mansfield, Ohio
 Lenchner, Theodore,* Vitro Mfg. Co., 60 Greenway Dr., Pittsburgh 4, Pa.
 Lennon, John W., Battelle Memorial Institute, 505 King Ave., Columbus, Ohio
 Lentz, Clarence J., Quebec Iron & Titanium Corp., Box 40, Sorel, Que., Canada
 Leonard, Jean, 96-24 Corona Ave., Corona, L. I., N. Y.
 Leopold, Jean H., Leopold & Cie., Pfaffenhoffen, (Bas-Rhin), France
 Lesar, Albert R., 509 Woodlawn, Mexico, Mo.
 Leszl, Matthias, "Smalteria e Metallurgica Veneta," Bassano del Grappa, Italy
 Lesso, Harold F., 631 Beechmont Dr., Dearborn Hills, Mich.
 Lester, W. Ronald,* 1620 W. 14th St., Sedalia, Mo.
 Letort, Marc Yves, Centre National d'Etudes et Recherches Ceramiques, 3 Avenue Paul Doumer, Paris 16, France
 Leumi, Igo, 1300 Cromwell Ave., New York 52, N. Y.

Levensgood, William C., 4473—289th St., Toledo, Ohio
 Levi, Ormonde S., Verd-A-Ray Corp., 615 Front St., Toledo 5, Ohio
 Levin, Ernest M., National Bureau of Standards, Div. 9.7, Washington 25, D. C.
 Levy, Dorothy, 1212 Lincoln Ave., Highland Park, Ill.
 Levy, Raymond H. (S), Box 701, Georgia Institute of Technology, Atlanta, Ga.
 Lewis, Albert D., Kimble Glass Co., Vineland, N. J.
 Lewis, Charles F., Volunteer Portland Cement Co., Knoxville, Tenn.
 Lewis, Clifford J., Mellon Institute, 4400 Fifth Ave., Pittsburgh 13, Pa.
 Lewis, Gordon E.,† Glen-Gery Shale Brick Corp., Box 182, Wyomissing, Pa.
 Lewis, Howard S., Wahpeton Pottery Co., Wahpeton, N. D.
 Lewis, J. H., Blue Ridge Glass Corp., Kingsport, Tenn.
 Lewis, J. M., Abingdon Potteries, Inc., Abingdon, Ill.
 Lewis, Robert T. (S), Box 165, Alfred, N. Y.
 Lewis, Wager, 754 Matianuck Ave., Windsor, Conn.
 Lewis, William C., Big Flats, N. Y.
 Libbey-Owens-Ford Glass Co. (George B. Watkins), 1701 E. Broadway, Toledo, Ohio
 Liberatore, Laurence C., Taylor Instrument Co., 95 Ames St., Rochester, N. Y.
 Lidgerwood, William V., Aluminum Import Corp., 630 Fifth Ave., New York 20, N. Y.
 Lieder, Phillip H., 110 Farview Ave., Norristown, Pa.
 Liederbach, William H.,† 272 Newman St., Metuchen, N. J.
 Ligon, Elmer R., W. S. Dickey Clay Mfg. Co., Box 6, Pittsburg, Kan.
 Lillie, Howard R.,* 191 Delevan Ave., Corning, N. Y.
 Limes, Robert W.,† Mellon Institute, Pittsburgh 13, Pa.
 Lin, C. Y.,† Union Ceramic Industries Co., Ltd., 202-212 Yee Kuh St., Kowloon, Hongkong, China
 Lindenthal, John (J), Box K, Lakehurst, N. J.
 Linder, Cyril S., 1139 Park St., Tarentum, Pa.
 Lindquist, Claude A., Jr.,† 418 Manitoba St., Playa del Rey, Calif.
 Lindsay, Carey E., 1025 S. Olive St., Mexico, Mo.
 Lintz, E. H.,*† 42 Heiskell Ave., Wheeling, W. Va.
 Linwood, Sidney H., Stackpole Carbon Co., St. Marys, Pa.
 Linz, Arthur, Climax Molybdenum Co., 500 Fifth Ave., New York 36, N. Y.
 Lithium Corp. of America, Inc. (Walter M. Fenton), 2560 Rand Tower, Minneapolis 2, Minn.
 Littleton, Joseph C., 231 Delevan Ave., Corning, N. Y.
 Littleton, J. T.* (Honorary), Corning Glass Works, Corning, N. Y.
 Livingston, Charles Q., Armstrong Cork Co., Lancaster, Pa.
 Livovich, Andrew F., 4941 Baring Ave., E. Chicago, Ind.
 Lloyd, Katherine M., Kaiser Aluminum & Chemical Corp., 1924 Broadway, Oakland, Calif.
 Lo, Wing-Cseuk (S), Ceramic Dept., Missouri School of Mines, Rolla, Mo.
 Lobaugh, Frank E.,† 1052 Sherman Ave., Plainfield, N. J.
 Locke—see General Electric Co.
 Lochridge, James F., 20611 Watson Rd., Maple Hts., Ohio
 Logan Clay Products Co. (Barton A. Holl), Logan, Ohio
 Londeree, Joseph W., Jr., 3918 Warner Ave., Louisville, Ky.
 Long, Bernard, 63 Rue de Rome, Paris 8, France
 Long, George R., Frigidaire Div., General Motors Corp., Dayton 1, Ohio
 Long, John V., Solar Aircraft Co., 2200 Pacific Highway, San Diego 12, Calif.
 Long, Luther L., Owens-Corning Fiberglas Corp., Newark, Ohio
 Long, Robert, American Porcelain Enamel Co., 1285 Keating Ave., Muskegon 36, Mich.
 Long, Robert R., National Tile & Mfg. Co., 1200 E. 26th St., Anderson, Ind.
 Long, Russell E.,† Brush Beryllium Co., 4301 Perkins Ave., Cleveland 3, Ohio
 Longenecker, Robert J. (J), 46 James Rd., Broomall, Pa.
 Longfritz, Robert K.,† Brighton Brick Co., Box 256, New Brighton, Pa.
 Longino, Ted E., Frankoma Pottery, Sapulpa, Okla.
 Longwell, B. E., Republic Steel Corp., 1423 Republic Bldg., Cleveland 1, Ohio
 Lorey, Frederick D.,† 89 Meadow Brook Apts., Corning, N. Y.
 Lorey, G. Edwin (S), Ceramic Dept., Rutgers University, New Brunswick, N. J.
 Loudon, R. H.,† McGean Chemical Co., Midland Bldg., 101 Prospect Ave. N.W., Cleveland 15, Ohio
 Louthan Mfg. Co. (C. W. Gerster), East Liverpool, Ohio
 Love, L. G., National Lime and Stone Co., First National Bldg., Findlay, Ohio
 Loveland, Edward W., 27 Llanfair Rd., Ardmore, Pa.
 Lovenbach, J., Saint-Roch Co., 50 Rue du Luxembourg, Brussels, Belgium

Lowe, Earl C.,† 267 N. Walnut St., Logan, Ohio
 Lowe, George K.,† Charles Taylor Sons Co., Heights-Rockefeller Bldg., Rm. 210, Mayfield at Lee, Cleveland 18, Ohio
 Lower, Clarence G., New Bethlehem Tile Co., 311 Lafayette St., New Bethlehem, Pa.
 Lower, Lloyd C., 227 Washington St., New Bethlehem, Pa.
 Lozano, Jaime, Vidriera Monterrey, S. A., Box 497, Monterrey N. L., Mexico
 Lucas, Joseph M., 1431 Broad Blvd., Cuyahoga Falls, Ohio
 Lucido, Peter J. (S), 1518 Central, Lafayette, Ind.
 Ludvigsen, C. F., Den Kongelige Porcelainsfabrik & Fajancefabriken Aluminia A/S, Copenhagen F., 45 Smallegade, Denmark
 Ludwig, David W.,† 5272 Keeport Dr., Pittsburgh 27, Pa.
 Ludwig, Urban W., Box 78, Sea Breeze, N. Y.
 Lueders, Roland, 3241 Bradford Rd., Cleveland Heights 18, Ohio
 Luks, Daniel W.,† Star Porcelain Co., Trenton, N. J.
 Lull, Stanley E., 12 Chamberlain Pkwy., Worcester, Mass.
 Lunak, Thomas E.,† Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
 Lund, H. Howard (J), 44 S. Elmwood Ave., Palatine, Ill.
 Lund, L. Howard (J), 145 W. Park Ave., Wheaton, Ill.
 Lund, Melvin S., 426 E. State St., Alliance, Ohio
 Lund, Val Jensen (S), 761 Emerson Ave., Salt Lake City, Utah
 Lundberg, Kenneth A. (S), 172 Fourth St., N. W., Atlanta, Ga.
 Lutton, X. W., National Plumbing Pottery, Inc., Dearborn, St., Zanesville, Ohio
 Lyle, Aaron K.,* 21 Cumberland Rd., W. Hartford 7, Conn.
 Lynch, Eugene D., Dept. of Ceramic Engr., 204 Ceramics Bldg., Urbana, Ill.
 Lynch, James F., Battelle Memorial Institute, 505 King Ave., Columbus, Ohio
 Lynch, John F., 5022 Illinois St., Loves Park, Ill.
 Lynsavage, Walter F., 305 Arnold Ave., Port Allegany, Pa.
 Lyon, John B., Hebron Brick Co., Hebron, N. D.
 Lyon, Kenneth C.,* Research and Development Center, Armstrong Cork Co., Lancaster, Pa.
 Lyons, Clifford T., 3930 Edenhurst Ave., Los Angeles 39, Calif.
 Lyons, S. C., Georgia Kaolin Co., Dry Branch, Ga.
 Lytle, Jack A.,† (J), 2719 N. Hackett, Milwaukee 11, Wis.
 Lytle, W. O., Pittsburgh Plate Glass Co., Research Lab., Creighton, Pa.
 Lyttle, Frobisher T., 1031 Findley Ave., Zanesville, Ohio

Mc

McAllister, Christopher,† Box 281, Clarksburg, W. Va.
 McAlpine, Kenneth B., 1201 Union Ave., Brackenridge, Pa.
 McAskill, James I., 311 King St. W., Kingston, Ont., Canada
 McAuley, James W., 2334 Sherwood Rd., Toledo, Ohio
 McBride, P. B., Porcelain Metals Corp. of Louisville, 1400 S. 13th St., Louisville 10, Ky.
 McBurney, John W.,* 1543 N. Falkland Lane, Silver Spring, Md.
 McCabe, Richard P., 2608 Lochmoor Dr., Raleigh, N. C.
 McCammon, James W., Dept. of Mines, Parliament Bldgs., Victoria, B. C., Canada
 McCandless, Lyon, Frazier-Simplex International Corp., 420 Madison Ave., New York 17, N. Y.
 McCann, D. M.,† Akron Porcelain Co., Akron 14, Ohio
 McCann, Sidney W.,† Pfaudler Co., 1000 West Ave., Rochester 11, N. Y.
 McCartt, Kenneth C., 1408 Delaware Ave., New Castle, Pa.
 McClave, James W.,† Box 67, Toronto, Ohio
 McClelland, Roland H.,† Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee, Wis.
 McClintock, J. P., Sunray Stove Co., 155 S. Sandusky St., Delaware, Ohio
 McClune, Charles V.,† 1527 Monroe Ave. S. W., Birmingham, Ala.
 McClure, Howard C., 1808 Hutchins St., Portsmouth, Ohio
 McCollom, Perry C.,† American Crucible Co., North Haven, Conn.
 McComas, Clarence B., T. C. Wheaton Co., Millville, N. J.
 McConnell, Clifford T. (S), Box 2161, Georgia Tech., Atlanta, Ga.
 McConnell, G. F., Mosaic Tile Co., Zanesville, Ohio
 McCormick, John M., 2356 Cheltenham Rd., Toledo 6, Ohio
 McCormick, Stewart W., c/o Corhart Refractories, 1600 W. Lee St., Louisville, Ky.
 McCoy, William, 1219 24th St., N.E., Canton 4, Ohio
 McCreery, George L., 393 Highland Ave., Wadsworth, Ohio
 McCreight, D. O., 15 Willow Terrace Dr., R. R. 2, Box 290, Library, Pa.
 McCreight, Louis R., R. R. 1, 67 Hillandale Dr., Ballston Lake, N. Y.

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BULLETIN

McDaniel, Donald W., McDaniel Refractory Porcelain Co., Beaver Falls, Pa.
McDaniel, Melvin W., R. R. 3, Beaver Falls, Pa.
McDaniel, L. L., Phelps Dodge Corp., Morenci Branch, Morenci, Ariz.
McDermott, James J., Jr., 136 William St., New York 38, N. Y.
McDonald, E. F., Ingram-Richardson Mfg. Co., Beaver Falls, Pa.
McDonald, Howard A., Apt. 3, 610 Malden Ave., Seattle, Wash.
McDougal, Taine G.,* A C Spark Plug Div., General Motors Corp., Flint 2, Mich.
McDowell, J. Spotts,* 4716 Bayard St., Pittsburgh 13, Pa.
McDowell, Samuel J.,* 52 Elm Ave., Metuchen, N. J.
McElroy, R. H.,† International Clay Machinery Co., 1145 Boller Ave., Dayton, Ohio
McEvoy, Robert J.,† Research Lab., Owens-Corning Fiberglas, Newark, Ohio
McFarland, James E., Inland Steel Co., 3210 Watling St., East Chicago, Ind.
McFarren, Lawrence E., General Electric Co., 1811 LeMoyne Ave., Syracuse, N. Y.
McGean, Ralph L., Midland Bldg., 101 Prospect Ave., N.W., Cleveland 15, Ohio
McGee, Thomas D.,† Research Laboratory, A. P. Green Fire Brick Co., Mexico, Mo.
McGill, William M., Virginia Geological Survey, Box 1428, University Sta., Charlottesville, Va.
McGinnis, James W., Westvaco Chemical Div., Chrysler Bldg., East, 161 E. 42nd St., New York 17, N. Y.
McGohan, G. William, Armco Steel Corp., Middletown, Ohio
McGopin, William C., Rm. 403, 57 Bloor St., W., Toronto 5, Ont., Canada
McGraw, Delford A., 4101 Garden Park Dr., Toledo 13, Ohio
McGuffin, James B. (S), E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.
McHose, L. H., Inc. (M. M. McHose, Jr.), Box 47, Perth Amboy, N. J.
McHose, M. M., Jr., L. H. McHose, Inc., Box 47, Perth Amboy, N. J.
McHugh, M. J., Eureka Flint & Spar Co., 190 W. State St., Trenton 8, N. J.
McIntosh, Harold W., American Window Glass Co., 9 W. Park Way, Pittsburgh 12, Pa.
McIntyre, G. H.,*† Ferro Corp., 4150 E. 56th St., Cleveland 5, Ohio
McKaig, W. Wallace, Cumberland Steel Co., Cumberland, Md.
McKamy, Paul E., Prater Industrial Products, 1515 S. 55th Court, Chicago 50, Ill.
McKeand, Irvin J. (S), 417 Fairlawn Dr., Urbana, Ill.
McKeen, Richard D.,† 2648 Robinson Blvd., Pittsburgh 21, Pa.
McKendrick, Alexander, Glenboig Union Fire Clay Co., Ltd., Glenboig, Lanark, Scotland
McKenna, John F. (J), Box CC, Alfred, N. Y.
McKeown, Thomas H., Box 31, Metuchen, N. J.
McKibben, Burt H., Niles Rolling Mill Co., Niles, Ohio
McKinley, Theodore D., E. I. du Pont de Nemours & Co., Newport, Del.
McKinnie, J. R., 3813 Hoke Ave., Culver City, Calif.
McKinstry, Herbert A. (S), Box 391, State College, Pa.
McLachlan, Eugene K., Mellon Court, Westmont, Johnstown, Pa.
McLain Fire Brick Co. (Lawson E. Mason), Wellsville, Ohio.
McLane, James P., Diamond Pottery Corp., 50-56 China St., Crooksville, Ohio
McLaren, Henry D., Ferro Enamels (Canada) Ltd., Box 454, Oakville, Ont., Canada
McLaren, John, Broadview Circle, East Liverpool, Ohio
McLaren, Malcolm G. (S), 330 Cooper Lane, University Heights, New Brunswick, N. J.
McLaughlin, John L., 564 S. Craig Pl., Lombard, Ill.
McLaughlin, Joseph K.,† Red Wing Potteries, Inc., Red Wing, Minn.
McLaughlin, William H., Alsey Brick & Tile Co., Alsey, Ill.
McMahon, John F.,*† Alfred, N. Y.
McMahon, John F., Jr. (J), 117 E. Main St., Lansdale, Pa.
McMaster, Harold A., Permaglass, Inc., Genoa, Ohio
McMullen, John C., 9325 Riverside Dr., Niagara Falls, N. Y.
McMurdie, Howard F.,* National Bureau of Standards, Washington 25, D. C.
McMurtry, Carl H. (S), Box F F, Alfred, N. Y.
McNamara, E. P.,*† Cambridge Tile Mfg. Co., Box 71, Cincinnati 15, Ohio
McNaughton, Ronald R., Central Technical Library, Consolidated Mining & Smelting Co. of Canada, Ltd., Trail, B. C., Canada
McNeilly, Clyde, Jr. (S), Box C C, Alfred, N. Y.
McPhail, Dan, American Clay Forming Co., Tiffin, Ohio
McQuarrie, Malcolm C., 392 Church St., North Adams, Mass.

McRitchie, Frank H., Engr. Expt. Sta., Ohio State University, Columbus 10, Ohio
McVay, T. N.,*† School of Chemistry, Metallurgy & Ceramics, University of Alabama, University, Ala.
McWalter, H. G., 731 Forrest Ave., Jenkintown, Pa.
McWilliams, Robert J., Pfadler Co., Elyria Div., Taylor St., Elyria, Ohio

M

MacAlpine, William M., 357 E. Main St., Somerville, N. J.
MacDonald, James E., McFeely Brick Co., Latrobe, Pa.
MacDonald, R. W.,† 109 Bent Oak Drive, Shavano Park, Box 661, R. R. 11, San Antonio, Texas
MacIntyre, Donald J., R. R., Piffard, N. Y.
Mackasek, Edward, Porcelain Enamel Institute, Dupont Circle Bldg., 1346 Connecticut Ave., Washington 6, D. C.
Mackenzie, James, United Steel Companies, Ltd., Research & Development Dept., Swinden House, Moorgate, Rotherham, England
MacKenzie, James T., Box 2603, Birmingham 2, Ala.
MacLeod, John, United Fireclay Products, Ltd., Bathville Office, Armadale, West Lothian, Scotland
MacZura, George† (J), 6400 W. Main, Belleville, Ill.
Madden, Jesse F., Page-Madden Co., Inc., 76-96 Second St., Box 110, Mineola, N. Y.
Madden, Robert C., R. R. 1, 1404 Jordan Ave., Provo, Utah
Maddock, A. M., R.R., Washington Crossing, N. J.
Maddock, J. B.,† Paper Makers Importing Co., Inc., 44 S. Second St., Easton, Pa.
Madsen, Leif Egil, Box 4208, Sandakervn 109/111, Oslo, Norway
Magic Chef, Inc. (Arthur Stockstrom), 1641 S. Kingshighway, St. Louis 10, Mo.
Magid, H. S.,† American Radiator & Standard Sanitary Corp., Box 907, Trenton 5, N. J.
Magnuson, J. W., Western Feldspar Milling Co., Box 671, Salida, Col.
Maheshwary, Ved P., Govt. Central Pottery Agency, Sonapat, Punjab, India
Mahier, Lois W., 4535 Harding Blvd., Baton Rouge, La.
Mahoney, Frank B., Richmond Radiator Co., Uniontown, Pa.
Mahurin, Frank R., 638 Clower St., San Antonio, Texas
Maier, Nelson S., Ceramica São Caetano S. A., Caixa Postal 278, São Paulo, Brazil
Majeske, Joseph, T. C. Wheaton Co., Millville, N. J.
Malcolm, Richard B., 115 Knox St., R.R. 1, Bridgeville, Pa.
Malinowski, Theodore P., 59 Princeton St., Springfield 9, Mass.
Malkin, W. R., B. F. Drakenfeld & Co., Inc., Box 267, East Liverpool, Ohio
Malm, Arthur T.,† 233 Beverly Rd., Worcester 5, Mass.
Maloney, William F., 5251 Forbes St., Pittsburgh 17, Pa.
Mandel, Charles J., The Willette Corp. of N. J., Codwise Ave. & Reed St., New Brunswick, N. J.
Mandle, Richard M., Rare Earths, Inc., Box 488, Pompton Plains, N. J.
Mann, George H., Lake Salubria, Bath, N. Y.
Manning, R. Douglas, Harker Pottery Co., East Liverpool, Ohio
Manring, Jack C.† (J), R. R. 1, South Charleston, Ohio
Manring, William H., Calumite Co., Box 151, Hamilton, Ohio
Mansfield Sanitary Pottery, Inc. (Perry E. Draper), Perrysville, Ohio
Manson, M. E.,* Box 1480, Palm Springs, Calif.
Manz, Oscar E.† (J), Box 516, University Sta., Grand Forks, N. D.
Maples, Jack Scott, Pine Hall Brick & Pipe Co., Winston-Salem, N. C.
Marbaker, Edward E.,* Mellon Institute, Oakland Sta., Pittsburgh 13, Pa.
March, Joseph W., Nova Scotia Technical College, Halifax, N. S., Canada
Marcowka, Chester A., 4615 W. Morgan Ave., Milwaukee 15, Wis.
Marcus, Leon† (J), 519-B Tulip Road, State College, Pa.
Margolis, David, 16 Winchester Ave., Yonkers 2, N. Y.
Marini, Dolores O. (S), Tamaulipas 155, Mexico 11, D. F., Mexico
Mark, Stanley D., Jr., 42 Ward Park, Grand Island, N. Y.
Markert, Fred S., 2134 Aberdeen Rd., Rocky River 16, Ohio
Marquis, John E., Pemco Corp., Res. and Dev. Lab., 2552 Greenmount Ave., Baltimore 18, Md.
Marsh, Frank L., National Gypsum Co., Clarence Center, N. Y.
Marshall, Hugh C. (J), R.R. 2, Carrollton, Ohio
Marshall, Paul A., 1201 Cherry St., Brockway, Pa.
Marshall, R. W., Caribbean Development Co., Ltd., Champs Fleurs, Trinidad, British West Indies
Marshall, Shadburn, U. S. Steel Corp., Res. & Dev. Lab. 234 Atwood St., Pittsburgh 13, Pa.

Martin, Francis W., 101 Hornby Dr., Painted Post, N. Y.
 Martin, Frank B., E. J. Lavino & Co., Box 29, Norristown, Pa.
 Martin, George D., 612 Colorado Ave., Baltimore 10, Md.
 Martin, H. C., Carborundum Co., Niagara Falls, N. Y.
 Martin, James K., 1068 Helen Ave., Lancaster, Pa.
 Martin, John R., Jr., Monongahela Power Co., Wellsburg, W. Va.
 Martin, Leonard A., Martin Ceramic Supply Co., 8901 Rainier Ave., Seattle 8, Wash.
 Martin, Ralph H., 2300 E. 52nd St., Los Angeles 11, Calif.
 Martin, Robert H., Corning Glass Works, Box 1412, Muskogee, Okla.
 Martin, Wesley G.,* 6054 N. Kent Ave., Milwaukee 11, Wis.
 Martini, Jose, Ceramica Martini, S. A., Mogi Guacu, Est. S. Paulo, Brazil
 Martino, Paul D. (S), R.R. 2, Box 550, Irving, Texas
 Martins, Eng. Renato, de Siqueira, c/o Ceramica São Caetano, Caixa Postal 278, São Paulo, Brazil
 Martz, Joseph A., 535 Riverside Ave., Wellsville, Ohio
 Marx, Leroy J., Denver Terra Cotta Co., 135 Tejon St., Denver 19, Colo.
 Maryland Glass Corp. (L. C. Roche), 2147 Wicomico St., Baltimore 30, Md.
 Maskill, William, Coalbournhill Glass Works, Stourbridge, Worcester, England
 Mason City Brick & Tile Co. (C. F. Garland), Mason City, Iowa
 Mason, Lawson E., The McLain Fire Brick Co., Wellsville, Ohio
 Massengale, Gordon B., 1010 Vermont Ave., Apt. 3, Pittsburgh 34, Pa.
 Matarazzo, S A I. R. F. (M. Mazzetti), Brazil Export Corp., 50 Broadway, New York 4, N. Y.
 Matchulat, John G., Buffalo Rd., R.R. 2, East Aurora, N. Y.
 Matejczyk, John F., 7506 Trevanion Ave., Pittsburgh 18, Pa.
 Materiali Refrattari Soc. p.Azioni (M. Charles Mathon), Milano 744-Via Elia, Lombardini 13, Milan, Italy
 Mather, Mrs. Katharine, Waterways Experiment Sta., Drawer 2131, Jackson, Miss.
 Mathesius, W. H., Freyn Dept., Koppers Co., Inc., 10th Fl., Koppers Bldg., Pittsburgh 19, Pa.
 Mathiasen, O. E., Federal Seaboard Terra Cotta Corp., Perth Amboy, N. J.
 Mathieu, Louis A., Parra Mantois, 11 Chemin de Ronde, Le Vesinet (S. & O.), France
 Mathon, M. Charles, Materiali Refrattari Soc. p.Azioni, Milano 744-Via Elia, Lombardini 13, Milan, Italy
 Matson, Frederick R.,† 244 S. Burrows St., State College, Pa.
 Matteson, Gilbert D., Scintilla Magneto Div., Bendix Aviation Corp., Sidney, N. Y.
 Matthews, L. G., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
 Mattison, William F., Jr., R.R. 1, Willow Brook Farm, Asbury Ave., Asbury Park, N. J.
 Mau, K. T., Gaspro, Box 2454, Honolulu, Hawaii
 Maupin, Addison,† 721 Yale Ave., Terrace Park, Ohio
 Maurer, James A., 5519 N. Lake Dr., Milwaukee 11, Wis.
 Mauser, H. W., Spoorsingel 68, Delft, Holland
 Mavor, Wilfrid, Ferro Enamels (Canada) Ltd., Oakville, Ont., Canada
 Maxson, Elwyn L., 1208 Isabel St., Burbank, Calif.
 Maxson, Elwyn L., 1208 Isabel St., Burbank, Calif.
 Maxwell, Laurel H., 3518 Perry Ave., Kensington, Md.
 May, L. F., Standard Ultramarine & Color Co., Huntington 18, W. Va.
 Maybaum, Paul S., Jr., 4335 Norma Dr., South Euclid, Ohio
 Mayer, Walter S., Mayer China Co., Beaver Falls, Pa.
 Mayfield, Manville J.,† 110 Hilldale Dr., Chattanooga 11, Tenn.
 Maynard, Fred A., 545 E. 250th, Euclid, Ohio
 Maynard, Frederick H., Corning Glass Works, 1 Jackson St., Wellsboro, Pa.
 Mays, George A., Niles, Calif.
 Mazet, Louis, Borax Français, S.A., 64 Rue des Mathurins, Paris (8^e) France
 Mazzetti, M., S/A I. R. F. Matarazzo, Brazil Export Corp., 50 Broadway, New York 4, N. Y.
 Medert, Warren C., General Eng. Dept., Owens-Illinois Glass Co., Alton, Ill.
 Meeka, Edward, Metropolitan Clay Inc., Box 27, East Palestine, Ohio
 Megles, John E., Jr. (S), Kappa Delta Rho, 420 E. Prospect Ave., State College, Pa.
 Meharg, Laurence, Hazel-Atlas Glass Co., 15th & Jacob Sts., Wheeling, W. Va.
 Meid, William J., 203 Elm St., Glenview, Ill.
 Meinken, Robert H. (S), 351 Prentiss Lane, University Heights, New Brunswick, N. J.
 Meiresonne, Arthur C., 324 Fallis Rd., Columbus 14, Ohio

Mejia, Lorenzo, Colombia Brewers Industries, Inc., 150 Broadway, 13th Floor, New York 7, N. Y.
 Melick, Nelson M., Nelson McCoy Pottery Co., Roseville, Ohio
 Meloy, C. L.,† Res. Dept., Rm. A-416, Bethlehem Steel Co., Bethlehem, Pa.
 Meng, Edwin R., Box 6087, Cleveland 1, Ohio
 Mengshol, Clarence O., American Radiator & Standard Sanitary Corp., 1089 Essex St., Richmond, Calif.
 Merbler, Wallace, Meadowbrook Apts. 77, Corning, N. Y.
 Merck, Walter J.,† 25 Addison Dr., Short Hills, N. J.
 Meredith, Neil F., 7024 Oakwood Rd., Parma Heights, Ohio
 Meriwether, B. Corbin, Deena Artware, Inc., 632 S. Third St., Paducah, Ky.
 Merkel, W. H., W. A. Riddell Co., American Clay Machinery Div., Bucyrus, Ohio
 Merlini, Ing. Francesco, Colonnata (Florence), Italy
 Merriam, Jack G.,† 727 N. Wildwood, Mundelein, Ill.
 Merritt, Clarence W.,*† Box 464, Alfred, N. Y.
 Merritt, Lester M.,† 654 Wilson Ave., Columbus 5, Ohio
 Merry, E. B., Jr.,† Merry Bros. Brick & Tile Co., 415 Masonic Bldg., Augusta, Ga.
 Merry, W. H., 380 E. End St., Beaver, Pa.
 Mertens, Robert C. (S), 937 Enid Ave., Azusa, Calif.
 Merwin, Byron W., Parkway Rd., R.R. 2, East Liverpool, Ohio
 Merz, George, Magnesita S. A., Caixa Postal 208, Belo Horizonte, Brazil
 Messimer, Laverne A.,† Holophane Co., Newark, Ohio
 Messner, Paul DuBois, III (S), Box CC, Alfred, N. Y.
 Metal & Thermit Corp. (George C. Betz), 100 E. 42nd St., New York 17, N. Y.
 Metz, G. F., Hillside Dr., Farquhar Estates, York, Pa.
 Metzger, A. J.,† Dept. of Ceramic Engineering, Virginia Polytechnic Institute, Blacksburg, Va.
 Meuli, William P. (S), 4509 19th Ave. N. E., Seattle 5, Wash.
 Mexico Refractories Co. (C. A. Smith), Mexico, Mo.
 Meyer, G. Robert (J), 1333½ Utah St., Toledo 5, Ohio
 Meyer, George W., Glenshaw Glass Co., Inc., Glenshaw, Pa.
 Meyer, L. S., Hydraulic-Press Brick Co., 705 Olive St., St. Louis 1, Mo.
 Meyer, William W., R. R. 1, Box 632, Annandale, Va.
 Meyerhofer, E. A., Meyerhofer & Co., Postbox, Zurich 32, Switzerland
 Meyer-Scholer, Hans, Carl Spitterlerstrasse 1, Liestal, Switzerland
 Michael, Frank L., 319 Norbourne Blvd., St. Matthews, Louisville 7, Ky.
 Michael, Harold J., Cia Industrial del Norte, Apartado 226, Saltillo, Coah., Mexico
 Michel, Howard, 1341 S. Boston Ave., Rm. 210, Tulsa 3, Okla.
 Michel, S., 9 Rue Deves, Neuilly-S-Seine (Seine), France
 Michelotti, Joseph E. (J), c/o L. Sprauge, R.R. 3, Kuser Rd., Trenton, N. J.
 Michener, John W., Res. Lab., Owens-Corning Fiberglas Corp., Newark, Ohio
 Mickwitz, Alexander von, 625 Lehmer St., Latrobe, Pa.
 Middleswarth, Earl T., 1819 Kimble Ave., Arnold, Pa.
 Middleton, George J., 432 Fifth St., Manhattan Beach, Calif.
 Midgette, Willard B., Demuth Glass Works, Inc., Box 629, Parkersburg, W. Va.
 Mildwoff, Ben, Bent Glass Works, Inc., 85-25 126th St., Richmond Hill 18, N. Y.
 Millar, N. S. C., British Titan Products Co., Ltd., Kronos House, Coppergate, York, England
 Miller, B. L., Royal China, Inc., Sebring, Ohio
 Miller, Boyd C., Miller Equipment Co., Box 1566, Salisbury, N. C.
 Miller, Edmund H. (S), 910 Poplar St., Austin, Texas
 Miller, Elmer R., Washington Porcelain Co., Willow St., Washington, N. J.
 Miller, Elwin L. (S), R.R. 2, Beaver Dams, N. Y.
 Miller, Fred M., The Brynwood, Apt. A-24, Wynnewood, Pa.
 Miller, Fred W., Franklin Manor, 114 Franklin St., Bldg. 8, Apt. B-2, Morristown, N. J.
 Miller, Grant E., Ferro Corp., 4150 E. 56th St., Cleveland 5, Ohio
 Miller, Harold, 5736 N. Talman Ave., Chicago 45, Ill.
 Miller, Harold D., 189 Circle Dr., Plandome Manor, Long Island, N. Y.
 Miller, Howard L.,† Libbey-Owens-Ford Glass Co., 1701 E. Broadway, Toledo 5, Ohio
 Miller, John B.,† Third St., Lewiston, N. Y.
 Miller, John K. (S), 1421 Navahoe Dr., Pittsburgh 28, Pa.
 Miller, John W., New Castle Refractories Co., New Castle, Pa.
 Miller, Jorge Smith, Casilla 187, a/co. Cristalerías de Chile S. A., Santiago de Chile
 Miller, Marlin, Jr. (S), Box J-3, Alfred, N. Y.
 Miller, O. E., Pyro Refractories Co., Box 466, Oak Hill, Ohio

Miller, Ray R., Claycraft Co., Box 866, Columbus 16, Ohio
 Miller, Richard C., 4353 Burnham Ave., Toledo 12, Ohio
 Miller, Robert A.,* Pittsburgh Plate Glass Co., 420 Ft. Duquesne Blvd., Pittsburgh 22, Pa.
 Miller, R. V., Sovereign Pottery, Ltd., Hamilton, Ont., Canada
 Miller, R. W., Columbia-Southern Chemical Corp., 420 Ft. Duquesne Blvd., Pittsburgh 22, Pa.
 Miller, Russel A.,† 251 E. Rockland St., Philadelphia 20, Pa.
 Miller, Vincent P., Miller Pottery Eng. Co., 2300 Palmer St., Pittsburgh 18, Pa.
 Miller, William A., Carborundum Co., Falconer, N. Y.
 Milligan, Chester E., 4814 Loma Vista Ave., Los Angeles, Calif.
 Milligan, Lowell H., Norton Co., New Bond St., Worcester 6, Mass.
 Milliken, John H. (S), Tower Club, Stadium Dorms, Ohio State University, Columbus 10, Ohio
 Milliken, Joseph Edward (S), Tower Club, Stadium Dorms Ohio State University, Columbus 10, Ohio
 Milliken, William U. (S), Box FF, Alfred, N. Y.
 Millman, Nathan, J. M. Huber Corp., Huber, Ga.
 Mills, G. Alexander, Houdry Process Corp., Box 427, Marcus Hook, Pa.
 Mills, R. Gerald (S), 59 S. Adelaide Ave., Highland Park, N. J.
 Mills, Robert H., R. R. 3, Wilmington Rd., New Castle, Pa.
 Milton Brick Co., Ltd. (D. T. Green), 170 Bloor St., W., Toronto, Ont., Canada
 Miner, Reginald R., 412 W. Chestnut Ave., Metuchen, N. J.
 Mink, John D., R.R. 2, Dunkirk, Ind.
 Minnick, L. John, 306 Boyer Rd., Cheltenham, Pa.
 Minton, G. Z.,† Pittsburgh Plate Glass Co., Research Lab., Creighton, Pa.
 Missbach, George E., Morehouse Industries, 707 Henry Grady Bldg., Atlanta, Ga.
 Mississippi Glass Co. (D. R. Muir), 88 Angelica St., St. Louis 7, Mo.
 Mitchell, Guthrie M., Fairfacts Co., Inc., Box 374, Trenton, N. J.
 Mitchell, Lane,*† School of Ceramic Engineering, Georgia Institute of Technology, Atlanta, Ga.
 Mitchell, M. P., Fairfacts Co., Inc., Box 374, Trenton 3, N. J.
 Mitchell, Russell G., R. R. 1 Dutch Ridge Rd., Beaver, Pa.
 Mitoff, Stephan P. (S), 1839 Delaware St., Berkeley 3, Calif.
 Mitra, H. K.,† 12 A Rd. E., Jamshedpur B. N. R., India
 Mixer, William G., Jr., 1848 W. Fifth Ave., Columbus 12, Ohio
 Mochel, John M., 2819 Charlestown Rd., New Albany, Ind.
 Mockrin, Isadore, Pennsylvania Salt Mfg. Co., Res. & Dev. Div., Box 4388 Chestnut Hill P. O., Philadelphia 18, Pa.
 Modigliani, Piero, Modigliani Glass Fibers, Inc., Box 18, Lancaster, Ohio
 Modrone, Raimondo Visconti di, Soc. Ceramica Richard Ginori, Milan, via Bigli, 1 Italy
 Moebus, C. R., United Clay Mines Corp., East Liverpool, Ohio
 Moffat, John, Jr., 3275 Colony Circle, Los Angeles 27, Calif.
 Moffett, Robert A.,† 315 W. Walnut St., Lock Haven, Pa.
 Mohanty, Gajendra Nath† (S), Ceramic Engr. Dept., School of Mines & Metallurgy, Rolla, Mo.
 Möhl, Helmuth, Fabrica de Loza "La Favorita," S. A., Palma Norte 308, Despacho 312, Mexico, D. F., Mexico
 Mohler, Neil F. (J), Champion Brick Co., 7600 Pulaski Highway, Baltimore 6, Md.
 Mohr, J. Gilbert,† LOF Fiber Glass Div., Parkersburg, W. Va.
 Mohr, William C.,† Westinghouse Research Labs., Ardmore Blvd., E. Pittsburgh, Pa.
 Moler Products, Ltd., Hythe Works, Colchester, Essex, England
 Molina, Joao Jernandes Gimenes, c/o Ceramica Sanitaria Porcelit, S. A., Rua Itapura 626, São Paulo, Brazil
 Moller, J. Aall, Porsgrunds Porselaensfabrik, Porsgrund, Norway
 Monack, A. J., Box 305, Rutherford, N. J.
 Monagle, William T., Lloyd Ave., Stanhope, N. J.
 Monday, John C., Hevi Duty Electric Co., 4212 W. Highland Blvd., Milwaukee, Wis.
 Moneta, Fausto, Via Mambretti, 9, Milano, Italy
 Mong, Lewis E., 8506 Loughborough Place, Chevy Chase 15, Md.
 Moninger, Richard E., Park Blvd., East Liverpool, Ohio
 Monks, J. R., 941 Danforth St., Alton, Ill.
 Montagno, Antonio M., 69 Glenmont Ave., Columbus 14, Ohio
 Montemayor, Ponciano S., Jr., Box 1081, Monterrey, Nueva Leon, Mexico
 Montgomery, Earle T.,*† Engr. Expt. Sta., Ohio State University, Columbus 10, Ohio

Montgomery, Eldwin C.† (J), 1701 E. Broadway, Technical Dept., Toledo 5, Ohio
 Montgomery, Thomas B., Pittsburgh Plate Glass Co., 632 Duquesne Way, Pittsburgh 22, Pa.
 Moody, H. Leslie, Hyalyn Porcelain, Inc., Box 460, Hickory, N. C.
 Moody, Willis E.,† 210 E. Franklin St., Raleigh, N. C.
 Mooney, Edward L., General Lab. Assoc., Inc., Norwich, N. Y.
 Mooney, William F.,† 7445 Etiwanda Ave., Reseda, Calif.
 Moore & Munger (Murray Rushmore), 33 Rector St., New York 6, N. Y.
 Moore, Carleton B. (S), Alfred, N. Y.
 Moore, Charles H., P. R. Mallory & Co., Indianapolis, Ind.
 Moore, Dwight G.,*† Mineral Products Div., National Bureau of Standards, Washington 25, D. C.
 Moore, H., Dept. of Glass Technology, University of Sheffield, Elmfield, Northumberland Rd., Sheffield 10, England
 Moore, Henry, 38 Potter Ave., W. New Brighton, Staten Island, N. Y.
 Moore, John G., 505 E. Poplar St., Robinson, Ill.
 Moore, Richard S.,† Harbison-Walker Refractories Co., Farmers Bank Bldg., Pittsburgh 22, Pa.
 Moore, Robert F., Apt. B, Bldg. 68, 68 W. Steuben St., Crafton, Pittsburgh 5, Pa.
 Moore, W. G., Humphries Mfg. Co., 201 E. Fifth St., Mansfield, Ohio
 Moran, J. J., Landis Ave. & Spring Rd., Vineland, N. J.
 Morell, N. L., 313 Union Bank Bldg., Bethlehem, Pa.
 Morena, Alfred (J), 2451 Second Ave., New York 35, N. Y.
 Morgan, John M. (S), 720 Rankin Ave., Schenectady, N. Y.
 Morgan, Robert A.,† Pass & Seymour, Inc., Syracuse, N. Y.
 Morgan, Stuart F.,† "Marshner," Mattapoisset Neck Rd., Mattapoisset, Mass.
 Morgan, Willard L., 117 Hibiscus Drive, Pittsburgh 35, Pa.
 Morgan, William R.,*† 1343 Brookwood, Birmingham, Mich.
 Mornin, Bob L.,† 2719 Ridge Ave., East St. Louis, Ill.
 Morren, Georges, 20 rue Debonne, Menin, Belgium
 Morris, Ernest D., 15 Irby Rd., Heswall, Cheshire, England
 Morris, Frank, 236 Greenpoint Ave., Brooklyn 22, N. Y.
 Morris, George J., Research Dept., Ferro Corp., 4150 E. 56th St., Cleveland, Ohio
 Morris, Irvine H., 4150 E. 56th St., Cleveland, Ohio
 Morris, John L., 14427 Allingham, Norwalk, Calif.
 Morris, Kent B. (S), 202 Evans Dr., Decatur, Ga.
 Morris, Paul R., Pittsburgh Plate Glass Co., Creighton, Pa.
 Morris, W. C., 1251 Mayfield Ridge, Cleveland 24, Ohio
 Morrison, Boone H., B. F. Drakenfeld & Co., Inc., Box 519, Washington, Pa.
 Morrison, R. F., 384 Gulf Rd., Elyria, Ohio
 Morrison, Wallace S., 840 Cedar St., Rockford, Ill.
 Morse, George T.,* 7 Longview Rd., Metuchen, N. J.
 Morton Pottery Co. (S. W. Rapp, Jr.), Morton, Ill.
 Morton, William A., 46 Standish Blvd., Mt. Lebanon, Pittsburgh 16, Pa.
 Mosaic Tile Co., Zanesville, Ohio
 Moser, Berthold B., Industria Ceramica Ltda., Apartado Aereo 4829, Bogota, Colombia
 Moser, John L.,† 1210 Acorn Dr., Dayton 9, Ohio
 Moses, Milton (J), Battelle Memorial Institute, 505 King Ave., Columbus, Ohio
 Moss, LeRoy L.,† Walnut Hills Rd., Cleveland 22, Ohio
 Mossch, F. R., Foster-Forbes Glass Co., Marion, Ind.
 Mould, W. J., Steubenville Pottery Co., Steubenville, Ohio
 Mount Clemens Pottery Co. (Charles E. Doll), Mt. Clemens, Mich.
 Mouraud, Paul H., 14 Ingleside Rd., Upper Montclair, N. J.
 Mowrey, Fred W., 108 Rodgers Dr., New Kensington, Pa.
 Mueller, Edward E.† (S), School of Mineral Engineering, University of Washington, Seattle 5, Wash.
 Mueller, Ferd A., 1360 Rudd, Canon City, Col.
 Mueller, James I.,† Ceramic Engineering Div., School of Mineral Engineering, University of Washington, Seattle 5, Wash.
 Muir, D. R., Mississippi Glass Co., 88 Angelica St., St. Louis 7, Mo.
 Mullen, Joseph, Champion Brick Co., 7600 Pulaski Highway, Baltimore 6, Md.
 Mullen, Willard F., R. R. 1, State College, Pa.
 Muller, Frederick W., 1111 Calumet Ave., Calumet, Mich.
 Muller, Dr. Ing. Gerhard, Staatliche Porzellan-Manufaktur, Berlin, (13a) Selb/Oberfr., Hartmannstrasse 1-3, U. S. Zone, Germany
 Muller, Max,† Basic Refractories, Maple Grove, Ohio
 Muller, Robert, Ste. Emaillerie de St. Maurice, 29 Rue du Val d'osne, St. Maurice, France
 Mullite Refractories Co. (Edward L. Bohn), Shelton, Conn.
 Mulroy, James P.,† 965 Lafayette Ave., Buffalo 9, N. Y.
 Mulryan, Henry, Sierra Talc & Clay Co., Box 390, South Pasadena, Calif.
 Mulvane, O. E., 4138 N. 21st St., Milwaukee 9, Wis.

Mundy, O. S.,† 426 Park Ave., Wheaton, Ill.
 Murgatroyd, John B., Rockware Glass, Ltd., Rockware Ave.,
 Greenford, Middlesex, England
 Murphy, Harry T., Climax Fire Brick Co., Climax, Pa.
 Murphy, Remington M., 420 Hixson Ave., Syracuse 6, N. Y.
 Murray, Ernest L., U. S. Quarry Tile Co., East Sparta, Ohio
 Murray, Maurice A.,† 10 Post Lane, East Williston, N. Y.
 Murray, Robert S., B. F. Drakenfeld & Co. Inc., Washington,
 Pa.
 Musselman, H. G., 4413 Old Frederick Rd., Baltimore 29, Md.
 Mucal Corporation of America (Richard A. Humphrey),
 Clifton Blvd., Clifton, N. J.
 Myers, C. H., Utah Fire Clay Co., 1078 S. First W., Salt Lake
 City, Utah
 Myers, Wilbur C., 2401 Malden Rd., Cleveland 21, Ohio
 Myerson, Martin, 90 Hamilton St., Cambridge, Mass.
 Mygdal, Rolf L., 350 Charcliff Dr., San Antonio, Texas

N

Nadler, Marion R. (S), 129 E. Seventh St., Ames, Iowa
 Nagan, Harold (S), Box 1-9, Alfred, N. Y.
 Nagel, E. W., Wrought Iron Range Co., 5661 Natural Bridge
 Ave., St Louis 20, Mo.
 Nakamura, Yoshikazu, Asahi Glass Co., No. 1, 4-chome,
 Ginza, Chuo-ku, Tokyo, Japan
 Napier, John B., 1297 Burton Ave., Macon, Ga.
 Nash, Harold S.,* Ceramics Dept., University of Cincinnati,
 Cincinnati 21, Ohio
 Nash, Herbert, Southern California Gas Co., Box 3249, Ter-
 minal Annex, Los Angeles 54, Calif.
 NATCO Corp. (R. A. Shipley), 327 Fifth Ave., Pittsburgh 22,
 Pa.
 National Ceramic Co. (J. A. Schermerhorn), 500 Southard
 St., Trenton 2, N. J.
 National Engineering Co. (E. A. Peterson), 549 W. Wash-
 ington Blvd., Chicago 6, Ill.
 National Industrial Sand Assn. (V. P. Ahearn), 1325 E St.
 N. W., Washington 4, D. C.
 National Lead Co. (Alex Stewart), 111 Broadway, New York
 6, N. Y.
 National Lime & Stone Co. (L. G. Love), First National Bldg.,
 Findlay, Ohio
 National Refractories Co., Inc. (R. A. Hitchins), 17th Floor,
 Lewis Tower Bldg., 225 S. 15th St., Philadelphia 2, Pa.
 National Research Corp. (Philip J. Clough), 70 Memorial Dr.,
 Cambridge 42, Mass.
 Naudot, Jacques, Directeur Cerabati, Pont-Sainte-Maxence
 (Oise), France
 Navias, Louis,* Research Lab., General Electric Co., The
 Knolls, Schenectady, N. Y.
 Navratil, Hans, Jahnstr. 3, Lauf/Pegnitz, Bavaria, Germany
 Neal, James E., 164 Sandford Ave., North Plainfield, N. J.
 Nealon, Terence P. (J), Edward Curran Engineering, Ltd.,
 Cardiff, Wales, Great Britain
 Neely, Homer E., Jr., 404 E. 11th Ave., Tarentum, Pa.
 Neff, Edward D., Box 205, Templeton, Pa.
 Neff, John M., Armour Research Foundation, 35 W. 33rd
 St., Chicago 16, Ill.
 Neff, Russell C., General Refractories Co., Olive Hill, Ky.
 Neiman, Robert, Whip-Mix Corp., Inc., 411 W. Avery Ave.,
 Louisville 8, Ky.
 Nelles, Maurice, Borg-Warner Corp., Central Research Lab.,
 Bellwood, Ill.
 Nelson, Forrest W., 3341 S. Taylor, Milwaukee 7, Wis.
 Nelson, James A., 204 Ceramics Bldg., University of Illinois,
 Urbana, Ill.
 Nelson, James W. (S), Riverton, R.R. 2, Salt Lake City, Utah
 Nelson, Karl E., 1714½ Vance Ave., Chattanooga 4, Tenn.
 Nelson McCoy Pottery Co. (Nelson McCoy Melick), Roseville,
 Ohio
 Nelson, Robert E. (S), 17 Seneca Manor Dr., Seneca Falls,
 N. Y.
 Nelson, Robert E. (J), Ridge & Germantown Pikes, College-
 ville, Pa.
 Nelson, Robert T., Columbia-Geneva Steel Div., Box 269, Salt
 Lake City 10, Utah
 Nelson, William I. (S), 118 Mary St., Binghamton, N. Y.
 Nerenstone, Marc A. (J), 311 W. 75th St., New York 23, N. Y.
 Netter, William S., 18081 Mendota Ave., Detroit 21, Mich.
 Neuhaus, Jacques, 18 Rue Charles Laffitte, Neuilly Sur, Seine,
 France
 Neumann, Paul D., 2 Knox St., Campbell, N. Y.
 New, Ryland J., National Sewer Pipe, Ltd., Swansea, Toronto
 3, Ont., Canada
 Newark, Frank F., Aluminum Co. of America, 1450 Terminal
 Tower, Cleveland 13, Ohio
 Newark, Martin, Simonds Abrasive Co., Tacony & Fraley Sts.,
 Philadelphia 37, Pa.

Newbold General Refractories, Ltd., Gavey St., Mayfield,
 N. S. W., Australia
 New Castle Refractories Co. (R. W. Rowland), New Castle,
 Pa.
 Newcomb, Rexford, Jr.,† 915 Dodge, Lake Geneva, Wis.
 New Jersey Porcelain Co. (J. M. Gilfillan), Box 908, Trenton
 5, N. J.
 Newkirk, Terry F., Portland Cement Assn. Fellowship, Na-
 tional Bureau of Standards, Washington 25, D. C.
 Newman, Robert W., R.R. 5, Putnam Rd., Schenectady 6, N. Y.
 Newton, Avery C., The Refractories Institute, First National
 Bank Bldg., Pittsburgh, Pa.
 Nicholson, Albert H., The Federal Glass Co., 515 Innis Ave.,
 Columbus 7, Ohio
 Nicholson, Clifford M.,† American Nepheline Ltd., Lakefield,
 Ont., Canada
 Nicolin, Jean, Etabl. Jaby Freres, 6 Rue de Marignan, Paris
 8, France
 Nieman, A. H., Ohio Hydrate & Supply Co., Woodville, Ohio
 Niemczura, Stanley W. (S), 300 S. Washington St., Rear,
 Evans City, Pa.
 Niklewski, B. K., Main Enamel Mfg. Co., Ltd., Gothic Works,
 Angel Rd., Edmonton, London N. 18, England
 Niles Fire Brick Co. (J. R. T. Clingan), 165 E. Park Ave.,
 Niles, Ohio
 The Nippon Toki Kaisha, Ltd. (Jun Isagawa), #1, Noritake-
 shinmachi, Nishiku, Nagoya, Japan
 Nisula, Chester A., 716 Main St., Riverton, N. J.
 Niyogi, D. P., Sur Enamel & Stamping Works, Ltd., 24
 Middle Rd., Entally, Calcutta, India
 Nobes, Frederick L., Carborundum Co., Ltd., Manchester,
 England
 Nobles, Melvin A., c/o C. H. Carr, 765E. N. 13th St., Abilene,
 Texas
 Noblitt, H. L., Ortona Gold Mines, Ltd., 143 First Ave., Ottawa,
 Ont., Canada
 Nohle, Richard C.† (J), The Claycraft Co., Box 866, Columbus
 16, Ohio
 Nolan, William F. (S), Deposit, N. Y.
 Norante, Nicholas J. (S), 169 W. Main St., Rahway, N. J.
 Nordberg, Martin E., 134 E. Fourth St., Corning, N. Y.
 Nordgren, Harry, Aktiebolaget Gustavsberg Fabriker, Gustavs-
 berg, Stockholm, Sweden
 Nordmeyer, Rudy L., Mission, Texas
 Nurdyke, J. S., Hammond Lead Products, Inc., 1602 Oliver
 Bldg., Pittsburgh 22, Pa.
 Noritake, Henry M., 2122 Alvin, Toledo 7, Ohio
 Normandeau, Pierre, 3660 Hutchison St., Montreal 18, Que.,
 Canada
 North American Philips Co., Inc. (C. J. Woods), Research &
 Control Institutes Div., 750 S. Fulton Ave., Mt. Vernon, N. Y.
 North American Refractories Co. (E. M. Weinfurter), Na-
 tional City Bank Bldg., Cleveland 14, Ohio
 North Carolina Feldspar Corp. (W. F. Deneen), Erwin,
 Tenn.
 Northwestern Glass Co. (Edward S. Campbell), 5801 E.
 Marginal Way, Seattle 4, Wash.
 Northwestern Terra Cotta Co. (Burnette Purcell), 1750
 Wrightwood Ave., Chicago 14, Ill.
 Norton Co. (O. J. Whittemore, Jr.), Worcester 6, Mass.
 Norton, Charles L., Jr.,* 161 E. 42nd St., New York 17, N. Y.
 Norton, Frederick H.,†† Dept. of Metallurgy, Div. of Ceramics,
 Massachusetts Institute of Technology, Cambridge 39,
 Mass.
 Norton, James M., Great Valley, N. Y.
 Norwalk, Marshall H. (S), 84 College Ave., New Brunswick,
 N. J.
 Norwood, George M., Norwood Brick Co., Box 5416, Raleigh,
 N. C.
 Norwood, J. Nelson (Life), Alfred University, Alfred, N. Y.
 Novak, John P. (J), 828 S. Scoville Ave., Oak Park, Ill.
 Novy, Anton R., 8140 Merrill Ave., Niles, Ill.
 Novy, Otto R., 1525 Robin Hood Lane, LaGrange Park, Ill.
 Nowell, Dorroh L., Jr., 202 Broad St., Augusta, Ga.
 Nyquist, Roy A., 3650 Beechway Blvd., Toledo 14, Ohio

O

Oakley, W. W.,* Box 35, Corning, N. Y.
 O'Bannon, L. S., 2239 Farleigh Road, Columbus 21, Ohio
 Oberst, Clair R., Industrial Ceramic Products, Inc., 965 W.
 Fifth Ave., Columbus 8, Ohio
 O'Connell, Thomas B., Libbey-Owens-Ford Glass Co., 1701 E.
 Broadway, Toledo, Ohio
 O'Connor, James H., 130 Murdock Rd., Baltimore 12, Md.
 O'Connor, Jerry B., 333 W. State St., Trenton 8, N. J.
 Odum, Paul R. (J), 3882 St. Charles Pl., Macon, Ga.
 Oesch, Robert B., 317 Noel, Lees Summit, Mo.

- Oesterle, Henry, Roesch Enamel & Mfg. Co., W. Main & N. 24th Sts., Belleville, Ill.
- Oesterle, Robert A., 2427 W. Main, Belleville, Ill.
- Offill, P. M., Amsler Morton Corp., Chamber of Commerce Bldg., Pittsburgh 19, Pa.
- Ogden, Ellsworth P.,* Harrop Ceramic Service, 35 E. Gay St., Columbus, Ohio
- Ogden, John T.,* Glass Industry, 55 W. 42nd St., New York 36, N. Y.
- Ogden, William D., Jr. (S), 28 E. 14th Ave., Columbus, Ohio
- Ohio Brass Co. (J. J. Taylor), Barberton, Ohio
- Ohio Clay Co. (Norman E. Denison), Box 1776, Cleveland 5, Ohio
- Ohio Hydrate & Supply Co. (A. H. Nieman), Woodville, Ohio
- Ohliger, Lewis P., 209 Ridgeview Dr., East Rochester, N. Y.
- Ohnysty, Basil (S), 6222 S. Kenneth Ave., Chicago 29, Ill.
- Ohrstedt, L. E., 66 E. Tulane Rd., Columbus 2, Ohio
- Old Hickory Clay Co. (L. F. Powell), Box 271, Paducah, Ky.
- O'Leary, W. J., 300 E. 25th St., Wilmington, Del.
- Olive, Frank C., 509 Chamber of Commerce Bldg., Indianapolis 4, Ind.
- Oliver, John C., Porcelain Enamel Institute, Dupont Circle Bldg., 1346 Connecticut Ave. N.W., Washington 6, D. C.
- Oliver, W. V., French Saxon China Co., Sebring, Ohio
- Olsen, Eric, R.R. 63, Dundee, Ill.
- Olsen, John M., 38 Rector St., Metuchen, N. J.
- Olsen, Rangwald S.,† 1137 Grant St., Evanston, Ill.
- Olson, E. E., A. H. Heisey & Co., Newark, Ohio
- Olson, Hjalmar, Aktiebolaget Gustavsbergs Fabriker, Gustavsberg, Sweden
- Olson, Ole A., Laclede-Christy Co., 4705 Ridgewood Ave., St. Louis, Mo.
- Olympia, Frederick D. (S), 10 Sims Ave., Corning, N. Y.
- Onondaga Pottery Co. (R. H. Pass), 1856-58 W. Fayette St., Syracuse 4, N. Y.
- Oppen, Fred H., Savannah Kaolin Co., 314 American Bldg., Box 184, Savannah, Ga.
- Oravec, Joseph A., 3731 N. Newland Ave., Chicago 34, Ill.
- Orefraction, Inc. (John F. Hunt), 7425 Thomas St., Pittsburgh 8, Pa.
- Orme, William C., Cambridge Glass Co., Cambridge, Ohio
- Ormsby, Walter C. (S), 311 E. Beaver Ave., State College, Pa.
- Ornella, LeRoy F. (J), 3206 Upton Ave., Toledo 6, Ohio
- Orr, David B. (S), Gen. Del., Alfred, N. Y.
- Orr, Stanley C., Pfaudler Co., Elyria, Ohio
- Orth, Howard S., Industrial Ceramic Products, Inc., 965 W. Fifth Ave., Columbus 8, Ohio
- Ortman, Fred B.,*† Gladding, McBean & Co., 2901 Los Feliz Blvd., Los Angeles 39, Calif.
- Ortman, Robert C., 4419 Union St., La Canada, Calif.
- Orton, Edward, Jr., Ceramic Foundation (J. L. Carruthers), 1445 Summit St., Box 146, Sta. A, Columbus 1, Ohio
- Orton, Mrs. Edward, Jr., 39 W. Torrence Rd., Columbus, Ohio
- Orzano, Michael J.,† The Claycraft Co., Box 866, Columbus 16, Ohio
- Osawa, H. K., 3512 E. Fifth St., Los Angeles, Calif.
- Osborn, Elbert F., School of Mineral Industries, Pennsylvania State College, State College, Pa.
- Osborn, Walton O., North American Refractories Co., Water St., Lock Haven, Pa.
- Osborne, David G. (S), YMCA, 1736 G St. N. W., Washington, D. C.
- Osmalov, Jerome S. (J), 10501 Brunswick Ave., Silver Spring, Md.
- Osterholtz, Carl, A. P. Green Fire Brick Co., Mexico, Mo.
- Ostrander, Eugene C., Kopp Glass, Inc., Box 8255, Swissvale, Pittsburgh 18, Pa.
- Otley, J. D., John B. Kelly Inc. of Penn., 1720 Cherry St., Philadelphia 3, Pa.
- Ottawa Silica Co. (George A. Thornton), Box 437, Ottawa, Ill.
- Otto, George H., 53 W. Jackson Blvd., Chicago 4, Ill.
- Otto, William H., Owens-Corning Fiberglas Corp., Newark, Ohio
- Ottoson, Axel,† 4300 Highland Ave., Shadyside, Ohio
- Outcault, Harry E., 37 Woodland Rd., Short Hills, N. J.
- Owen, Betty T., American Ceramic Society, 2525 N. High St., Columbus 2, Ohio
- Owen, Frederick E., Electrical Refractories Co., East Palestine, Ohio
- Owen, J. D., R. Fowler, Ltd., Fitzroy St., Marrickville, Sydney, N. S. W., Australia
- Owens-Corning Fiberglas Corp. (August C. Siefert), Newark, Ohio
- Owens-Illinois Glass Co. (W. Funke), 3600 Alameda Ave., Oakland 1, Calif.
- Owens-Illinois Glass Co. (E. W. Summers), General Eng. Dept., Alton, Ill.
- Owens, James S., 271 McMillan Rd., Grosse Pointe Farms 36, Mich.
- Owens, Robert K. (J), North American Refractories Co., National City Bank, E. 6th Bldg., Cleveland 14, Ohio
- Pabst, John G., 552 N. Main St., Butler, Pa.
- Pacific Clay Products (John D. Fredericks), Box 145, Sta. A, Los Angeles 31, Calif.
- Pacific Coast Borax Co. (M. H. Pickard), Div. of Borax Consolidated, Ltd., 100 Park Ave., New York 17, N. Y.
- Packman, Willard D.,† Florida Ceramic Tile Co., Box 451, Lakeland, Fla.
- Paden City Pottery Co. (Merrill C. Sondles), Paden City, W. Va.
- Pacific, Ralph C., Apt. 10F, Parkhurst Apts., Bethlehem, Pa.
- Padilla, Federico, Apartado Postal 26783, Mexico, D. F.
- Paff, John A., 232 N. Sixth St., Reading, Pa.
- Pafford, Ray W.,* Acme Brick Co., Box 425, Fort Worth 1, Texas
- Page-Madden Co., Inc. (Jesse F. Madden), 76-96 Second St., Box 110, Mineola, N. Y.
- Paladino, Albert E., Jr. (S), Box BB, Alfred, N. Y.
- Palamara, Louis M., 229 W. Main St., Logan, Ohio
- Palmer, Delos M., 4401 Jackman Rd., Toledo 12, Ohio
- Palmer, Joseph D., 2432 Ontario Ave., Niagara Falls, N. Y.
- Palmer, Rufus N., 476 Broadmoor Ave., Pittsburgh 34, Pa.
- Palmer, Willard E.,† 6701 Newburgh Rd., Evansville 14, Ind.
- Palmeri, Victor R., Casilla Correo 38, Suc. Velez, Sarsfield 7, Buenos Aires, Argentina
- Palmour, Hayne, III,† Box 405, Signal Mountain, Tenn.
- Paltzer, Clifford (J), 1100 Peace St., Pella, Iowa
- Paper Makers Importing Co., Inc. (Charles Brian), 44 S. Second St., Easton, Pa.
- Pappis, James (S), 433 Brookline Ave., Boston 15, Mass.
- Parcel, Martin W.,† Robertson Mfg. Co., Trenton 5, N. J.
- Parikh, Niranjan M. (S), Div. of Ceramics, Dept. of Metallurgy, Massachusetts Institute of Technology, Cambridge 39, Mass.
- Paris, Charles E., Mead Board Sales, Inc., Lower Basin, Lynchburg, Va.
- Parker, Glidden M., Jr., Glidden Pottery, Inc., Alfred, N. Y.
- Parker, Harry,† 8706 Old Bladensburg Rd., Silver Spring, Md.
- Parker, James W., Jr. (J), R.R. 3, Shakespeare Rd., Columbia, S. C.
- Parker, Leon, The H. I. Thompson Co., 1733 Cordova St., Los Angeles 7, Calif.
- Parker, Raymond W., c/o Alliance Clay Products Co., Box 746, Alliance, Ohio
- Parnham, H., General Refractories, Ltd., Worksop, England
- Parson, James A., 5760 E. New York St., Indianapolis, Ind.
- Parsons, Douglas E., Building Technology Div., National Bureau of Standards, Washington 25, D. C.
- Parsons, Joseph R., Chicago Fire Brick Co., 7531 S. Ashland Ave., Chicago 20, Ill.
- Pask, Joseph A.,† Div. of Mineral Technology, University of California, Berkeley 4, Calif.
- Paspy, Stanley F., Jr., Ferro Corp., 4150 E. 56th St., Cleveland 5, Ohio
- Pass & Seymour, Inc. (R. H. Pass), Solvay Station, Syracuse 9, N. Y.
- Pass, James S., R. R. 2, Cazenovia, N. Y.
- Pass, R. H., Onondaga Pottery Co., 1856-58 W. Fayette St., Syracuse 4, N. Y.
- Paterson, G. W., 8291 Royden Rd., Mount Royal, P. Q., Canada
- Patriarca, Armando S. E., Piedras 383, Buenos Aires, Argentina
- Patrick, Howard (S), Box J 3, Alfred, N. Y.
- Patrick, Robert F., Pemco Corp., 2554 Greenmount Ave., Baltimore 18, Md.
- Patterson, Harvey E., T. L. Smith Co., 2835 N. 32nd St., Milwaukee 10, Wis.
- Patterson, Richard C. (J), U. S. Quarry Tile Co., Parkersburg, W. Va.
- Paulson, Fred H., 28 Greendale Ave., Worcester 6, Mass.
- Pavlish, Arnold E.,* 2904 Clarkson Rd., Cleveland Heights 18, Ohio
- Pawlowski, Edward J., 11 Morris St., Amsterdam, N. Y.
- Pearce, Charles S.,* American Ceramic Society, 2525 N. High St., Columbus 2, Ohio
- Pearch, Howard C.,† (S), 1309 Woodington Rd., Baltimore, Md.
- Pearch, William M., Akron Porcelain Co., Akron 14, Ohio
- Pearson, E. J. & J., Ltd. (Charles A. G. Thomas), Firebrick Works, Stourbridge, England
- Pearson, Edward P., Basic Refractories, Inc., Maple Grove, Ohio
- Pechman, Alexander, Development Lab., Ryan Aeronautical Co., San Diego 12, Calif.
- Peck, J. Clair,† 198 Hollister St., Manchester, Conn.
- Peckham, George W., Coca-Cola Co., 310 North Ave., N. W., Atlanta 1, Ga.

Pedrick, W. W., Armstrong Cork Co., Millville, N. J.
 Pedu, Richard K. (J), Products Div., Cincinnati Milling Machine Co., Cincinnati, Ohio
 Peel, G. N., Associated Lead Manufacturers, Ltd., Crescent House, Newcastle upon Tyne, 1, England
 Peiler, Karl E.,* Hartford-Empire Co., Div. of Emhart Mfg. Co., Box 1620, Hartford 2, Conn.
 Pelham, Alphonzo, 15 North Dr., Kensington, Great Neck, L. I., N. Y.
 Pelley, Kenneth M., East Sparta, Ohio
 Pelz, Robert W., 2706 Grovewood, Parma 9, Ohio
 Pemco Corp. (Richard H. Turk), 5601 Eastern Ave., Baltimore, 24, Md.
 Penberthy, Larry, Penberthy Instrument Co., 666 Adams St., Seattle, Wash.
 Pence, Forrest K.,* Ceramic Engineering & Research, University of Texas, Austin 12, Texas
 Pennsylvania Pulverizing Co. (William J. Woods), Box 587, Lewistown, Pa.
 Pennsylvania Salt Mfg. Co. (A. H. Clem), 1000 Widener Bldg., Philadelphia 7, Pa.
 Pennsylvania Wire Glass Co. (E. H. Baldwin), Dunbar, Pa.
 Pereira, Armando de Arruda,* Caixa Postal 1930, Sao Paulo, Brazil
 Pereny, Andrew, Pereny Equipment Co., 893 Chambers Rd., Box 153, Station A, Columbus, Ohio
 Perkins, Harrell L., Central of Georgia R. R., 501 Rhodes-Haverty Bldg., Atlanta 3, Ga.
 Perkins, Walter W.,† 600 De Witt St., Linden, N. J.
 Perricone, Charles (J), 4329½ Leeland, Houston, Texas
 Perry, Robert F., Victor Insulators, Inc., Victor, N. Y.
 Perry, Robert W. (S), Box J-3, Alfred, N. Y.
 Perry, T. Ray (S), Rotan, Texas
 Pertuch, Walter A. R., Franklin Institute Library, Parkway at 20th St., Philadelphia 3, Pa.
 Peskin, W. L., Edwin M. Knowles China Co., Newell, W. Va.
 Peters, Forrest L., 2 Meadow Brook Apts., Corning, N. Y.
 Petersen, Fred A.,* Hunter-Thomas Assoc., Keith Bldg., Cleveland 15, Ohio
 Peterson, Albert F. (S), Box 246, Alfred, N. Y.
 Peterson, E. A., National Engineering Co., 549 W. Washington Blvd., Chicago 6, Ill.
 Peterson, Jack D., 3029 123rd St., Toledo 11, Ohio
 Peterson, W. H., Jr., Valentine Fire Brick Co., Woodbridge, N. J.
 Petrie, Earl C.,* North American Refractories Co., 1012 National City, E. Sixth Bldg., Cleveland 14, Ohio
 Petrie, Lloyd R., 404 W. Snyder St., Abingdon, Ill.
 Pett, Tyler G., 261 Antlers Dr., Rochester 18, N. Y.
 George F. Pettinos, Inc. (George F. Pettinos, Sr.), 1206 Locust St., Philadelphia 7, Pa.
 Pettinos, George F., Sr., George F. Pettinos, Inc., 1206 Locust St., Philadelphia 7, Pa.
 Petty, Frank, 2771 W. 230th St., Fairview Park 26, Ohio
 Petty, Howard E., 3131 Ryons, Lincoln 2, Neb.
 Pfaudler Co., (Sidney W. McCann), 1000 West Ave., Rochester 11, N. Y.
 Pfeiff, C. H., Box 527, Metuchen, N. J.
 Pfeiffer, Wilbur H.,* Engineering Lab., Plant 2, Frigidaire Div., General Motors Corp., Dayton 1, Ohio
 Pfleger, George E., Harshaw Chemical Co., 2237 S. Garfield, Los Angeles 22, Calif.
 Phadke, V. S., Central Potteries, Ltd., Itwari, Nagpur 2, India
 Phelps Dodge Corp., Morenci Branch (L. L. McDaniel), Morenci, Ariz.
 Phelps, Girard W., 410 E. Magnolia Dr., Morrisville, Pa.
 Phelps, Stuart M.,* Mellon Institute, Pittsburgh 13, Pa.
 Phillips, Adrian W., Jr., 316 Fairmont Ave., New Castle, Pa.
 Phillips, Charles J., Indiana Glass Co., Dunkirk, Ind.
 Phillips, Donald G., 2804 Lynne Ave., Hatboro, M. R., Pa.
 Phillips, Edwin L.,* Carolina Pyrophyllite Co., Box 2414, Greensboro, N. C.
 Phillips, Gordon D., Olean Tile Co., Olean, N. Y.
 Phillips, Jack E., Box 44, Lakewood Ave., East Quogue, L. I., N. Y.
 Phillips, James G.,† Dept. of Mines & Technical Surveys, Mines Branch, Industrial Minerals Div., Lydia St., Ottawa, Canada
 Phillips, Leigh F. (J), Box 87, East Quogue, L. I., N. Y.
 Phillips, Richard A. (S), Box FF, Alfred, N. Y.
 Phillips, W. Eric, 50 St. Clair Ave. W., Toronto, Ont., Canada
 Phoenix, Richard Carl† (S), 93½ Elm St., South Dartmouth, Mass.
 Pickard, M. H., Pacific Coast Borax Co., Div. of Borax Consolidated, Ltd., 100 Park Ave., New York 17, N. Y.
 Pickett, A. R., Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa.
 Pieper, Arthur O., 105 Trevor Court Rd., Rochester 10, N. Y.
 Pierce Glass Co. (J. G. Bozzo), Port Allegany, Pa.
 Pierce, J. Allen, 798 Chalmers Place, Pittsburgh 16, Pa.
 Pierpont, Harlan T., Jr., New Bond St., Worcester 6, Mass.
 Pierson, James F.,† 1707 Weston Ave., Towson 4, Md.
 Pike, Robert D., Brook Lane, Greenwich, Conn.
 Pilkington, Lawrence H. A., Messrs. Pilkington Brothers, Ltd., Glass Works, St. Helens, England
 Pimstein, Uri (S), Rm. 4-051, Massachusetts Institute of Technology, Cambridge, Mass.
 Pincus, Alexis G., 1061 Glenwood Blvd., Schenectady 8, N. Y.
 Pinney, J. M., Harker Pottery Co., East Liverpool, Ohio
 Pinnow, Harley R., Box 269, East Liverpool, Ohio
 Pinotti, Fred D., 2324 Middlesex Dr., Toledo, Ohio
 Pisula, J. Donald, Corning Glass Works, Corning, N. Y.
 Pittenger, John T., Box 207, Newell, W. Va.
 Pittman, Jack (S), 3932 E. Mercer Way, Mercer Island, Wash.
 Pittman, William C., 1119 Omena Place, Cincinnati 38, Ohio
 Pitts, Joseph W., Enameled Metals Section, National Bureau of Standards, Washington 25, D. C.
 Pittsburgh Corning Corp. (Walter D. Ford), Technical Dept., Port Allegany, Pa.
 Pittsburgh Plate Glass Co. (S. F. Cox), Creighton, Pa.
 Pixley, David M. (J), 243½ College Ave., Elmira Heights, N. Y.
 Pixley, Francis V. (J), Paris Rd., New Hartford, N. Y.
 Place, Tom M.,† 6250 S. Fairfax Ave., Los Angeles 56, Calif.
 Place, Thomas M., Jr., 20611 Ridgewood Ave., Warrensville Heights, Cleveland, Ohio
 Plagge, Vernon L., 489 Park Ave., East Orange, N. J.
 Planje, Christian W.,† 1500 First Ave. S., Seattle 4, Wash.
 Planje, Theodore J. M., 4 Summit Ave., Rolla, Mo.
 Plankenhorn, William J.,† 204 Ceramics Bldg., University of Illinois, Urbana, Ill.
 Pleasants, Luther E., Jr., 6002 Brookfield Rd., Richmond, Va.
 Ploetz, Edwin C. H., 708 S. Lincoln Ave., Kankakee, Ill.
 Ploetz, George L.,† 261 Swaggertown Rd., Scotia 2, N. Y.
 Plumbo, Victor A., General Glass Equipment Co., 5 S. Virginia Ave., Atlantic City, N. J.
 Plummer, Harry C.,* Structural Clay Products Institute, 1520 18th St. N. W., Washington 6, D. C.
 Plummer, J. H., Glass Fibers Inc., 1810 Madison Ave., Toledo, Ohio
 Plummer, Norman, State Geological Survey of Kansas, Lawrence, Kan.
 Plunkett, Jerry D. (S), Box 217, Dixon, Mo.
 Plunkett, Richard G., 191 Fairfax Rd., Rochester 9, N. Y.
 Plusch, John A., 63 Spruce St., Westfield, Mass.
 Poffenberg, Scott, 11616 Chenault St., Los Angeles 49, Calif.
 Poisson, Louis, Faïencerie de Badonviller, Badonviller, Meurthe et Moselle, France
 Poland, Milton E.,† (S), 56½ W. Tenth Ave., Columbus, Ohio
 Polar, Alfredo, Pachacutec 2269, Urbanizacion Lobaton, Lima, Peru
 Pole, Gordon R.,*† 2592 S. Shore Blvd., White Bear Lake 10, Minn.
 Poles, Alfred P., 325 Arborlea Ave., Morrisville, Pa.
 Polhemus, D. W., Carborundum Co., Bristol, Pa.
 Polk, Arthur E., 3901 S. Morgan St., Chicago 9, Ill.
 Polson, John B. (S), Box 201, Clemson, S. C.
 Pomeroy, William T., Sterling China Co., East Liverpool, Ohio
 Pond, Marvin H., 224 Thornton St., Hamden 14, Conn.
 Poole, James P., Brockway Glass Co., Inc., Plant 2, Brockway, Pa.
 Porcelain Metals Corp. of Louisville (P. B. McBride), 1400 S. 13th St., Louisville 10, Ky.
 Porst, Edward G., 1418 Stonewood Rd., Baltimore 12, Md.
 Porter, Frank R.,*† 318 E. Clark St., Crown Point, Ind.
 Porter, J. L., Kaiser Aluminum & Chemical Corp., Box 1031, Baton Rouge, La.
 Porter, Rudyard, United States Steel Corp., 208 S. LaSalle St., Rm. 1655, Chicago 90, Ill.
 Porter, Sidney C., Box 34, East Liverpool, Ohio
 Porter, Wallace S., 709 Eventide Dr., San Antonio, Texas
 Posey Iron Works, Inc. (Frank A. Fix), Lancaster, Pa.
 Posluszny, Raymond F., 242 E. Meehan Ave., Philadelphia 19, Pa.
 Post, Benjamin F.,† Cortland Grinding Wheels Corp., Chester, Mass.
 Poste, Emerson P.,*† 309 McCallie Ave., Chattanooga 3, Tenn.
 Postlewaite, Donald E.,† Universal-Rundle Corp., Box 300, Redlands, Calif.
 Potters Supply Co. (William W. Irwin), East Liverpool, Ohio
 Potts, Amos P.,* 359 E. Main St., Logan, Ohio
 Pouilly, Marcel L., 14902 Center Ave., Harvey, Ill.
 Poulos, Nick E. (S), 1687 Blvd., N. E., Apt. F-7, Atlanta, Ga.
 Poulton, Robert F., 2763 N. Congress Rd., Camden 4, N. J.
 Poundstone, William W., Pittsburgh Plate Glass Co., Grant Bldg., Pittsburgh, Pa.

Powell, John A., 16 Fourth St., Frenchtown, N. J.
 Powell, L. F., Old Hickory Clay Co., Paducah, Ky.
 Powell, O. E., Indiana Drain Tile Co., Inc., Brooklyn, Ind.
 Powell, Richard H. (J.), 1279 N. Main St., Jamestown, N. Y.
 Power, Henry R., 1020 James Ave., Niagara Falls, N. Y.
 Powers, Don W. (S), 2701 Nueces St., Austin, Texas
 Powers, George H., 80 Clairmont Ave., Westwood, N. J.
 Prachankhadee, Manoon (S), Dept. of Science, Ministry of Industry, Bangkok, Thailand
 Pratt, Donald S., Product Engr. Dept., Kawneer Co., Niles, Mich.
 Precision Grinding Wheel Co., Inc. (Roland J. Clark), 8301 Torresdale Ave., Philadelphia 36, Pa.
 Preisman, Louis, Barium Reduction Corp., South Charleston, W. Va.
 Prescott, Frank R., 1811 Kimball Ave., Arnold, Pa.
 Prescott, Mary Jane (J), 2126 Sherwood Ave., Louisville, Ky.
 Preston, Frank W., Preston Labs., Butler, Pa.
 Prewitt, J. K., Elgin Standard Brick Mfg. Co., Elgin, Texas
 Prey, Arthur H., Carborundum Co., Niagara Falls, N. Y.
 Price, Glen M., General Refractories Co., Box 1673, Baltimore 3, Md.
 Price, James E., 44 W. Guernsey Ave., Abington, Pa.
 Price, Warren L., 70 E. Fourth St., Corning, N. Y.
 Priddy, K. O., Barium Reduction Corp., South Charleston 3, W. Va.
 Priestley, J. Edward, Huntly Brick & Fireclay Co., Ltd., Box 14, Huntly, New Zealand
 Primm, Herbert E., 1658 Elevado Ave., Arcadia, Calif.
 Prince, Alan T., Mines Branch, Ottawa, Ont., Canada
 Prindle, William R. (S), 354 Westgate West, Cambridge 39, Mass.
 Prior, Gordon M., 229 Haven Ave., Scotch Plains, N. J.
 Prior, Harold D., R. 1. Valley Rd., Millington, N. J.
 Proctor, W. J., Jr., Southern Clays Inc., Gordon, Ga.
 Prokopec, Robert, 309 N. Tillotson Ave., Muncie, Ind.
 Promat Division, Poor & Co. (A. E. Chester), 851 S. Market St., Waukegan, Ill.
 Pryor, Edward K., 902 N. Acacia, Whittier, Calif.
 Puckett, John P., Jr., Leeds & Northrup Co., 4901 Stenton Ave., Philadelphia 44, Pa.
 Puerto Rico Clay Products Co. (F. Torres Campos), Box 4729, San Juan, Puerto Rico
 Pulaski, Marie E., 1222 E. 79th St., Cleveland 3, Ohio
 Puls, Josef, "Austria" United Enamel Works, Vienna XVI, Wilhelminenstr. 80, Austria
 Pumphrey, William I., Murex Welding Processes Ltd., Hertford Rd., Waltham Cross, Herts, England
 Puntney, L. E., 8021 Titus Rd., St. Louis 14, Mo.
 Pupulidy, Alexander, 34-18 91st St., Apt. A 41, Jackson Heights, 72, L. I., N. Y.
 Purcell, Burnette, Northwestern Terra Cotta Corp., 1750 Wrightwood Ave., Chicago 14, Ill.
 Purdy, James A., Fischer & Porter Co., County Line Rd., Hatboro, Pa.
 Purdy, Mrs. Ross C., 59 E. Longview Ave., Columbus 2, Ohio
 Purnell, Hugh J., 761 Loretta St., Pittsburgh 17, Pa.
 Pyro Refractories Co. (O. E. Miller), Box 466, Oak Hill, Ohio

Q

Quick, Donald A. (S), Box F. F. Alfred, N. Y.
 Quigley Company, Inc. (R. J. Demaison), 527 Fifth Ave., New York 17, N. Y.
 Quirk, John F., 2235 Barrymore Ave., Columbus, Ohio
 Quirk, Virgil P., Calhoun, Ky.

R

Rabe, N. A., 10 W. Palmer Ave., Collingswood, N. J.
 Rabin, William J. (J), 4830 N. Seventh St., Philadelphia 20, Pa.
 Radczewski, Otto-Ernst, Institut fur Gesteinshuttenkunde, Mauerstrabe 5, Aachen, Germany
 Radio Materials Corp. (R. D. Bourgerie), 3325 N. California Ave., Chicago, Ill.
 Ragatz, Eugene C., Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.
 Raggon, Frank C., Jr., 4202 Bowen Rd., Toledo 13, Ohio
 Raible, A. J., John Douglas Co., Cincinnati 16, Ohio
 Raine, Frank F., 111 E. Vine St., Mexico, Mo.
 Rait, J. R., Research Dept., Hadfields, Ltd., E. Hecla Works, Sheffield 9, England
 Ralston, O. C.,* 4333 Clagett Rd., Hyattsville, Md.
 Ralston, T. E., Harbison-Walker Refractories Co., 1800 Farmers Bank Bldg., Pittsburgh 22, Pa.
 Ram, Atma, Central Glass & Ceramic Research Institute, P. O. Jadavpur College, Calcutta 32, India

Ramm, Eric, H. L. Brisbane & Wunderlich, Ltd., Lord St., East Perth, West Australia
 Ramsden, C. E., C. E. Ramsden & Co., Ltd., Foley Colour & Chemical Works, Fenton, Stoke-on-Trent, England
 Ramtite Co. (Louis J. Jacobs), 2563 W. 18th St., Chicago 8, Ill.
 Randall, Theodore, Randall Pottery, Wellsville, N. Y.
 Randolph, Hal F., Mexico Refractories Co., Mexico, Mo.
 Rankin, James J., St. Joseph Lead Co., Box 97, Monaca, Pa.
 Rankine, Adam S., Jr., Martinsville, N. J.
 Rao, Bh V. Janakirama (S), International Resistance Co., 401 N. Broad St., Philadelphia 8, Pa.
 Rao, Eleswarapu C. S. (S), School of Mineral Engr., University of Washington, Seattle 5, Wash.
 Rapp, Carl H.,† Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
 Rapp, Howard C.† (J), 404 N. Main St., Morton, Ill.
 Rapp, S. W., Jr., Morton Pottery Co., Morton, Ill.
 Rase, Daniel E. (S), 137 E. Park Ave., State College, Pa.
 Rasmussen, R. K., Mississippi Glass Co., Fullerton, Calif.
 Rasmussen, Wayland G., Mason City Brick & Tile Co., Mason City, Iowa
 Rassner, Donald D.,† 224 E. Northview Ave., New Castle, Pa.
 Ratcliffe, Temple W., 244 Buffalo St., Beaver, Pa.
 Rathmann, Clyde L., 1 Colonial Lawns, Bath, N. Y.
 Rauch, Harry W., 415 W. Hickory St., East Rochester, N. Y.
 Rauscher, Louis C., Jr. (S), 2374 Geneva Ave., Glenside, Pa.
 Ray, E. Harold, B. F. Drakenfeld & Co., Inc., Box 519, Washington, Pa.
 Ray, John G., Sylvania Electric Products, Cottage Place, Mineola, L. I., N. Y.
 Ray, John M. (S), Box FF, Alfred, N. Y.
 Ray, Sushil, 20-C, Southern Ave., Calcutta 26, India
 Rea, Robert F., Stupakoff Ceramic & Mfg. Co., Latrobe, Pa.
 Reagan, Cornelius J., 1243 Fifth Ave., East McKeesport, Pa.
 Redlich, Paul L., Rotospray Mfg. Co., 562 Washington Blvd., Chicago 6, Ill.
 Reed, A. J., Carborundum Co., Research Dept., Niagara Falls, N. Y.
 Reed, Carl E., 1326 E. Main St., Lancaster, Ohio
 Reed, George Clifton, III (S), 207 Parkside Cir., Decatur, Ga.
 Reed, Norman D.† (S), What Cheer, Iowa
 Reed, Paul H., 310½ Fairmont Ave., New Castle, Pa.
 Reeves, Harold, 343 E. Taggart St., East Palestine, Ohio
 The Refractories Institute (Avery C. Newton), First National Bank Bldg., Pittsburgh, Pa.
 Refractory & Insulation Corp. (A. S. Arwine), Port Kennedy, Pa.
 Regenbrecht, Albert, Jr., Sylvania Electric Products, Inc., Burlington, Iowa
 Regout, Joseph F. E., N. V. de Sphinx, Maastricht, Holland
 Reid, Frank P., American Ceramic Society, 2525 N. High St., Columbus 2, Ohio
 Reid, Harry F., Jr., McKay Co., Grantley Rd., York, Pa.
 Reilly, Alfred F., Sr., Evans Case Co., 21 East St., North Attleboro, Mass.
 Reimer, John J.,† Keystone Ceramic Corp., Bendersville, Pa.
 Rein, Peter, 3757 W. Arthington St., Chicago, Ill.
 Reinker, Arthur G., Johns-Manville Sales Corp., 1530 Guildhall Bldg., Cleveland 15, Ohio
 Reinker, Gerald E., Lamp Dept., General Electric Co., 1133 E. 152nd St., Cleveland 10, Ohio
 Reischel, Frank, 2733 Mayflower, Arcadia, Calif.
 Reising, Joseph A., St. Joseph Lead Co., Zinc Smelting Div., Monaca, Pa.
 Reiss, Max S., 406 N. Front St., Wheeling, W. Va.
 Remington, Victor H., B. F. Drakenfeld & Co., Inc., Box 519, Washington, Pa.
 Remmey, G. Bickley,* Richard C. Remmey Son Co., Hedley St. & Delaware River, Philadelphia 37, Pa.
 Remmey, John G., Richard C. Remmey Son Co., Hedley St. & Delaware River, Philadelphia 37, Pa.
 Remmey, Richard C., Son Co. (G. Bickley Remmey), Hedley St. & Delaware River, Philadelphia 37, Pa.
 Rempes, Paul E.† (S), 499 Midgard Rd., Columbus 2, Ohio
 Renfrew, J. Harvey, 31 Linden Park St., Roxbury 20, Mass.
 Rengering, William A., 3870 Drakewood Dr., Cincinnati 9, Ohio
 Renouf, Leonard J., Church St., Youngstown, N. Y.
 Renskers, Richard H.† (J), 85 Adelaide Ave., Highland Park, N. J.
 Republic Steel Corp. (B. E. Longwell), 1423 Republic Bldg., Cleveland 1, Ohio
 Reser, Margie K., 977 Carlisle Ave., Columbus, Ohio
 Reuning, Charles R. (J), 187 E. Main St., Frostburg, Md.
 Reuning, George W., Jr.,† 187 E. Main St., Frostburg, Md.
 Reusche, Frank L., 1459 Clinton Ave., Irvington 11, N. J.

Reuter, Raymond, National Aluminate Corp., 6216 W. 66 Place, Chicago 38, Ill.
 Reynolds, Harry J., 1802 Croft Ave., Aiken, S. C.
 Reynolds, Harry M., Renite Co., Box 365, Sta. A., Columbus, Ohio
 Rhoads, James L. (S), 2446 Grandview Ave., Mount Penn, Reading, Pa.
 Rhodes, Foster T., Onondaga Pottery Co., Syracuse 4, N. Y.
 Rhodes, Fraser B.,† 7134 Maple Ave., Madeira, Ohio
 Rhodes, Ralph E., Jr., 1062 W. College Road, Alliance, Ohio
 Rhodes, Ralph R.,† 1729 Powell St., Norristown, Pa.
 Rhoton, Donald G., 18956 Devonshire Rd., Birmingham, Mich.
 Ricci, Edward Michael† (J), Country Dr., Olive Hill, Ky.
 Rice, Hal H.,† 17 W 25 Oak Lane Dr., Oakdale Woods, Bensenville, Ill.
 Rice, Murray J., 133 N. Main St., Alfred, N. Y.
 Rice, William H. (S), General Electric Co., Glass Technology Lab., 1133 E. 152nd St., Cleveland 10, Ohio
 Rich, Herbert W., Amherst, Va.
 Richard, Giulio A., Via Cernuschi 1, Milano, Italy
 Richards, Thomas Z. (J), 10 Underwood Ave., Worcester, Mass.
 Richardson, H. K.,* 41 Yantecaw Ave., Bloomfield, N. J.
 Richardson, R. C., The Lovell Clay Products Co., Box 247, Lovell, Wyo.
 Richardson, Robert M., 5530 Fifth Ave., Pittsburgh 32, Pa.
 Richmond, Joseph C.,† 4415 Fairfield Dr., Bethesda 14, Md.
 Richter, C. J., Glass Engineers Inc., 1301 Clark Bldg., Pittsburgh, Pa.
 Rick, Clarence A., 441 La Sierra Way, Gilroy, Calif.
 Ricker, Richard W., Aluminum Co. of America, Aluminum Research Labs., Box 772, New Kensington, Pa.
 Rickey, J. H., Jr., Ironton Fire Brick Co., Box 124, Ironton, Ohio
 Riddell, W. A., Co. (W. H. Merkel), American Clay Machinery Div., Bucyrus, Ohio
 Riddle, Frank H.,*† Champion Spark Plug Co., Ceramic Div., 8525 Butler Ave., Detroit 11, Mich.
 Riddle, Robert F., Pennsylvania Glass Sand Corp., 140 Stanwix St., Pittsburgh 22, Pa.
 Ridgeway, Thomas J., Jr. (J), Box 78, Orviston, Pa.
 Riebe, Donald R.,† Alexander H. Kerr & Co., Inc., Box 2008, Santa Ana, Calif.
 Riegert, Richard P.,† (S), Box 995, Alfred, N. Y.
 Riehl, W., Hanovia Chemical & Mfg. Co., 1 W. Central Ave., East Newark, N. J.
 Rigby, James E., Blue Ridge Glass Corp., Kingsport, Tenn.
 Rigerterink, Merle D.,* Bell Telephone Labs., Murray Hill, N. J.
 Riis, Asgeir, Robeson Process Co., 500 Fifth Ave., New York 18, N. Y.
 Riker, Leon W., Jr. (J), Spencer, N. Y.
 Riley, James H., 125 E. Ninth St., Jacksonville 6, Fla.
 Riley, Roger R. (J), Gladding, McBean & Co., Pittsburg, Calif.
 Rindone, Guy E., Div. of Ceramics, Pennsylvania State College, State College, Pa.
 Rispler, Z. W., c/o Palestine Glass Works, "Phoenicia" Ltd., Box 168, Haifa, Israel
 Ritland, Harold N., Research Lab., Corning Glass Works, Corning, N. Y.
 Ritter, Joseph S., Adamston Flat Glass Co., Clarksburg, W. Va.
 Rittler, Hermann (S), Box C-C, Alfred University, Alfred, N. Y.
 Ritz, Joseph W., Sylvania Electric Products, Inc., 83-30 Kew Gardens Rd., Kew Gardens, L. I. N. Y.
 Rivers, Wayland C., Jr., Elgin Standard Brick Mfg. Co., Perry Brooks Bldg., Austin, Texas
 Roach, H. C., American Radiator & Standard Sanitary Corp., 1541 S. Seventh St., Louisville 8, Ky.
 Robb, Richard B., 870 Galloway St., Pacific Palisades, Calif.
 Robbins, David (J), 4689 Reinhardt Dr., Oakland, Calif.
 Robbins, Ross W., Jr. (S), Kappa Psi Upsilon, Alfred, N. Y.
 Roberson, Cletis L., 350 Moull St., Newark, Ohio
 Roberts, John Taggart,† 419 Park Blvd., Glen Ellyn, Ill.
 Roberts, Mervin Francis, 116 Carpenter Ave., Crestwood Tuckahoe 7, N. Y.
 Robertson, James A., Box 1061, Newark, Calif.
 Robertson, John M. (J), 103 Kingston Apt. 4, Louisville, Ky.
 Roberson, R. Kenneth (J), 101 St. Henri St., Laprairie, Que., Canada
 Robertson, Randal K., 906 University Tower Bldg., Montreal, Que., Canada
 Robeson Process Co. ('Asgeir Riis), 500 Fifth Ave., New York 18, N. Y.
 Robinson, A. J., Laprairie Co., Inc., Laprairie, Que., Canada
 Robinson Clay Product Co. (W. E. Robinson), 65 W. State St., Akron 9, Ohio
 Robinson, F. George, 500 S. Santa Fe Dr., Denver, Col.
 Robinson, Gilbert C., Box 91, Clemson, S. C.
 Robinson, G. R.,† 224 Mound St., Logan, Ohio

Robinson, Louis G., Louis G. Robinson Labs., Box 761, Cincinnati 1, Ohio
 Robinson, Percy Burrill, Diamond Clay Co., Ltd., Hartshill, Stoke-on-Trent, England
 Robinson, Philip W., R. R. 2, Box 533, Washington, Pa.
 Robinson, Phillip, 23 Pymble, Sydney, N. S. W., Australia
 Robinson, Richard E., 315 S. High St., Zelenople, Pa.
 Robinson, Richard R.,† 12 Horton St., Hammonont, N. J.
 Robinson, W. E., Robinson Clay Product Co., 65 W. State St., Akron 9, Ohio
 Robson, H. L., 2 Water St., Lewiston, N. Y.
 Robson, James T.,*† Allied-Engineering Co., 4150 E. 56th St., Cleveland 5, Ohio
 Roche, L. C.,* Maryland Glass Corp., 2147 Wicomico St., Baltimore 30, Md.
 Rochester, Thomas W., Jr., 210 Delevan Ave., Corning, N. Y.
 Rochow, W. F.,* Harbison-Walker Refractories Co., 1800 Farmers Bank Bldg., Pittsburgh 22, Pa.
 Rockwell, Robert E. (S), 4910 234th St., S. W., Edmonds, Wash.
 Rodefer, Howard H., Rodefer Glass Co., Box 550, Bellaire, Ohio
 Rodgers, Eben, Jr., Alton Brick Co., Alton, Ill.
 Rodman, Clarence J., Box 809, Alliance, Ohio
 Rodrigues, Antonio, D'Almeida Filho, Av. Automovel, Club 2468, Vicente de Carvalho, Rio de Janeiro, Brazil
 Rodriguez, Alfonso F., Vidriera Monterrey, S. A., Apartado 162, Monterrey, N. L., Mexico
 Rodriguez, A. R., 29 Pine St., Franklinville, N. Y.
 Rodriguez, Eduardo, Cia Industrial del Norte, Apartado 226, Saltillo, Coah., Mexico
 Roe, Lawrence A., 1501 Vilas Ave., Madison 5, Wis.
 Roff, W. Wallace, 14 Glenside Dr., West Orange, N. J.
 Rogatz, Alvin, Zenith Radio Corp., 6001 Dickens Ave., Chicago 39, Ill.
 Rogers, Edwin J., Scintilla Magneto Div., Bendix Aviation Corp., Sidney, N. Y.
 Rogers, Gregory L., 9500 S. Norwalk Blvd., Los Nietos, Calif.
 Rogers, Melvin F.,† 55 Goff St., Corning, N. Y.
 Rogers, Percy L., Riverton Lime & Stone Co., Riverton, Va.
 Rogers, Thomas S., 3720 Windom Place, N. W., Washington 16, D. C.
 Rolke, Herbert J.,† Sociedade de Engenharia Industrial, Rua Marconi, 23, 8° andar, São Paulo, Brazil
 Rollmann, Peter (J), Emmalaan 11, Baarn, Netherlands
 Rooney, Thomas E., III, Empire Fire Brick Co., 219 Murray, Fort Wayne, Ind.
 Root, H. Dean, Westinghouse Electric & Mfg. Co., K-80, Materials Engineering Dept., East Pittsburgh, Pa.
 Root, Lawrence L., Stanford Pottery Inc., 40 S. 15th St., Sebring, Ohio
 Roques, Rodney A., University of Texas, Austin 12, Texas
 Rose, Ralph,† E. J. Lavino & Co., Box 29, Norristown, Pa.
 Rosenthal, E. K., 234 Napoleon St., Playa Del Rey, Calif.
 Rosenthal, Ernst, 246 Park West, Marble Arch, London W. 2, England
 Rosenwinkel, George O., North American Refractories, 59 E. Van Buren, Chicago, Ill.
 Roseville Pottery, Inc. (Robert P. Windisch), Zanesville, Ohio
 Roshong, Robert L., Steel & Tube Div., Library, Timken Roller Bearing Co., Canton 6, Ohio
 Roslund, J. A., Globe Brick Co., East Liverpool, Ohio
 Ross, Donald W.,*† 5929A Oakhurst Place, St. Louis 12, Mo.
 Ross, Howard, II (J), R.R. 1, Kane, Pa.
 Ross, Paul F.,† 320 Constitution Ave., Hellertown, Pa.
 Ross-Tacony Crucible Co. (A. M. Johnson), Tacony, Philadelphia 35, Pa.
 Ross, Victoria Avakian, 537 Country Club Road, Eugene, Ore.
 Rossler, Emil (S), Tonwarenfabrik, Ersigen/kt Berne, Switzerland
 Roth, Harper D., East River Rd., Grand Island, N. Y.
 Rothermel, Joseph J., Corning Glass Works, Research Lab., Corning, N. Y.
 Roudabush, Henry L., 3201 Fruitland Rd., Los Angeles 58, Calif.
 Roudabush, Ned W., Apt. 119-B, St. Davids Park, St. Davids, Pa.
 Rough, Robert R., Owens-Illinois Glass Co., General Research Laboratory, 1700 N. Westwood, Toledo 7, Ohio
 Roup, Rolland,*† Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
 Rous, William C., Jr.,† 432 Springfield Pike, Cincinnati 15, Ohio
 Rovani, Tedd, The Evans Case Co., 21 East St., North Attleboro, Mass.
 Rowe, C. W. D., London Brick Co. Ltd., Africa House, Kingsway, London, W. C. 2, England
 Rowland, Davidge H.,† Porcelain Insulator Co., Lima, N. Y.
 Rowland, Donald A., 622 S. Morton St., Okmulgee, Okla.

Rowland, Richards A., Exp. & Prod. Res. Div., Shell Development Co., 3737 Bellaire Blvd., Houston 25, Texas
 Rowland, Roger W.,* Newcastle Refractories Co., New Castle, Pa.
 Rowlands, Robert R.,† Universal-Rundle Corp., Box 960, New Castle, Pa.
 Roy, Rustom, Pennsylvania State College, 308 Mineral Sciences Bldg., State College, Pa.
 Royal China, Inc. (B. L. Miller), Sebring, Ohio
 Royal, Herbert F.,* 845 Pilgrim Rd., Birmingham, Mich.
 Ruark, A. E., Dept. of Physics, University of Alabama, University, Ala.
 Rudd, Richard D., 3335 W. 47th St., Chicago 32, Ill.
 Rudolf, Paul E., Stoneware Factory Embrach, Ltd., Embrach (Zurich), Switzerland
 Ruettinger, T. O., Flat Rock Clay Product Co., 26280 Arsenal Rd., Flat Rock, Mich.
 Rugg, Ormund L., 13615 Meyers Rd., Detroit 27, Mich.
 Rugh, Kenneth A., Garfield Refractories Co., Bolivar, Pa.
 Ruh, Edwin (S), 194 Willow Ave., Ext., North Plainfield, N. J.
 Ruh, Robert (S), 105 Chester Circle, New Brunswick, N. J.
 Ruiz, Jorge M., Amerex, Ingenieros, S. A., Gante 7, Mexico 1, D. F.
 Ruiz, Robert A., 114 W. Home St., Vandalia, Mo.
 Rulon, Richard M., Sylvania Electric Products, Inc., 60 Boston St., Salem, Mass.
 Rushmore, Murray, Moore & Munger, 33 Rector St., New York 6, N. Y.
 Ruso, Felipe B., Galiano 109, Habana, Cuba
 Russell, Graden J. (S), Fletcher, N. C.
 Russell, Howard F., 20918 Homeland Rd., Matteson, Ill.
 Russell, Lewis E. (S), Graduate House, Mass. Inst. of Tech., Cambridge 39, Mass.
 Russell, Norman Keith,† St. Davids Park Apts., St. Davids, Pa.
 Russell, P. N., General Electric Co., Electronic Div., Electronics Park, Syracuse, N. Y.
 Russell, Ralston, Jr.,*† Dept. of Ceramic Engineering, 126 Lord Hall, Ohio State University, Columbus 10, Ohio
 Russell, Robert G., R. R. 2, Granville, Ohio
 Rustless Iron Co., Ltd. (H. Whitaker), Trico Works, Keighley, England
 Rutkowski, Arthur R., Titanium Alloy Mfg. Div., National Lead Co., Niagara Falls, N. Y.
 Ryan, D., Edward Curran Engineering, Ltd., Cardiff, Wales
 Ryan, Joseph D., 3018 Middlesex Dr., Toledo 6, Ohio
 Ryckman, David A., Sr., 146 N. Washington St., Tiffin, Ohio
 Ryder, John W., 2475 N. W. Overton St., Portland 10, Ore.
 Ryder, Robert J. (S), 311 E. Beaver Ave., State College, Pa.
 Ryland, H. W., Coors Porcelain Co., Golden, Col.
 Rynders, Gerald F., National Bureau of Standards, Div. 9.7, Washington 25, D. C.
 Ryskhewitch, Eugene, Kearfott Co., Inc., Little Falls, N. J.

S

Sada, Patricio, Troqueles & Esmaltes, S. A., Apartado Postal 371, Monterrey, N. L., Mexico
 Sada, Roberto G., Jr., Keramos, S. A., Apartado Postal 956, Monterrey, N. L., Mexico
 Sadowski, J. Richard† (S), 1139 Sixth Ave., Ford City, Pa.
 Saibel, Edward, Carnegie Inst. of Tech., Schenley Park, Pittsburgh 13, Pa.
 Sailer, Edward (S), Box BB, Alfred, N. Y.
 Sales, Jose (S), Apartado Aero 12-26, Barranquilla, Colombia
 Salinas, Mario, Montes Carpatos #625, Mexico 10, D. F., Mexico
 Salisbury, William R., Lyndon Rd., Fayetteville, N. Y.
 Salomon, Allen N., 103 Village Dr., Apt. 112, Syracuse, N. Y.
 Saltman, Donald, 1831 E. Second St., Long Beach, Calif.
 Sammons, Frederick C., General Refractories Co., 3201 Fruitland Ave., Los Angeles 58, Calif.
 Sampson, J. Leonard, Mahoning Glass Works, General Electric Co., 403 N. Main St., Niles, Ohio
 Samson, A. William, B. F. Drakenfeld & Co., Inc., Box 519, Washington, Pa.
 Samuel, Donald G., 811 Buttonwood St., Norristown, Pa.
 Sanborn, Paul H., 2514—23rd St., Parkersburg, W. Va.
 Sand, Reuben, 8 N. Blount St., Madison 3, Wis.
 Sanders, Clyde A., American Colloid Co., Merchandise Mart, Suite 813, Chicago 54, Ill.
 Sanders, Herbert H., 17926 Daves Ave., Los Gatos, Calif.
 Sanderson, K. W., John G. Stein & Co., Ltd., Bonnybridge, Scotland
 Sandford, Per Johan Folke, Chalmers Tekn. Högskola, Göteborg, Sweden
 Sandmeyer, Karl H., 908 87th St., Niagara Falls, N. Y.
 Sands, George, Imperial Smelting Corp., Avonmouth, Bristol, England

Sanford, Elbert A., 375 Oakridge Dr., Rochester 17, N. Y.
 San Miguel Brewery Glass Factory (A. Villa-Abrille), 132 Aviles, Manila, Philippines
 Sant, John W., Universal-Rundle Corp., New Castle, Pa.
 Santomieri, Lewis S.,† Box 8, Botkins, Ohio
 Sapp, Clifford E., American Ceramic Society, 2525 N. High St., Columbus 2, Ohio
 Sarakauskas, Raymond, National Carbon Research Labs., Box 6087, Cleveland, Ohio
 Sarraf, Edward M., 20001 Laurel Ave., Rocky River 16, Ohio
 Sauereisen, C. Fred, Sauereisen Cements Co., Sharpsburg Sta., Pittsburgh 15, Pa.
 Saul, Bert (S), 1470 Kay Lane N. E., Atlanta, Ga.
 Sauls, J. B.,† Funkhouser Co., Blue Ridge Summit, Pa.
 Saunders, Alfred C.,† 90 Center St., Hamburg, N. Y.
 Saunders, Hollis S., O. Hommel Co., Box 475, Pittsburgh 30, Pa.
 Saunders, R. H., Box 349, Charleston 22, W. Va.
 Savell, Fred H., 1901 E. Slauson Ave., Los Angeles 58, Calif.
 Savioli, Francesco, Istituto Siderurgico Finsider, Villa Brignole-Corso F. M. Perrone, 24, Genova-Cornigliano, Italy
 Sawai, Ikutaro, Kyoto University, Kyoto, Japan
 Sawyer, E. C., Central Silica Co., 806 Market St., Zanesville, Ohio
 Saxe, Charles W., 1 Wawecus Rd., Worcester 5, Mass.
 Saxonburg Ceramics (George H. Aderhold), Box 100, Saxonburg, Pa.
 Scales, John B.,† 7710 Franklin Blvd., Cleveland 2, Ohio
 Schaa, Ferdinand A., Jr. (J), 84 Paumanake Ave., Babylon, N. Y.
 Schabacker, H. Eric, Erie Ceramic Arts Co., 423 W. 12th St., Erie, Pa.
 Schaefer, Carl F., 327 Sheffield Ave., Flint, Mich.
 Schaefer, William H. (J), 814 Morewood Ave., Pittsburgh, Pa.
 Schaeffe, Max, Office of the Resident, Rep. of the U. N. B., Padra Faura St., Manila, Philippines
 Schatzkin, Harvey, Architectural Tiling Co., Inc., Cass/Jackson Sts., Keyport, N. J.
 Schauss, Edward P., 2324 108th St., Toledo, Ohio
 Scheel, Hans P., Box 141, Sedro Woolley, Wash.
 Schelby, Frederick, Corning Glass Works, Corning, N. Y.
 Schell, Donald C., 1522 N. Massasoit Ave., Chicago 51, Ill.
 Schermerhorn, J. A., National Ceramic Co., 500 Southard St., Trenton 2, N. J.
 Schiefferle, James A., 2320 Union Ave., Wesleyville, Pa.
 Schiene, Quentin J. (J), 5406 S. Harper Ave., Chicago 15, Ill.
 Schifferli, Leo M., Jr., Metals Research Labs., Box 580, Niagara Falls, N. Y.
 Schlacks, Richard J.,† 4519 S. Wigger, Marion, Ind.
 Schlegel, Roland F., Rua Groenlandia 552, São Paulo, Brazil
 Schlehr, W. Raymond,† Brockway Glass Co., Inc., Lapel, Ind.
 Schloffman, J. Paul, Temco, Inc., 4104 Park Ave., Nashville, Tenn.
 Schlotzhauer, Leon R., R. R. 2, Painted Post, N. Y.
 Schmid, Arthur W., Arthur W. Schmid Co., 1414 Investment Bldg., 239 Fourth Ave., Pittsburgh 22, Pa.
 Schmid, Robert L., Jr., 9 Palmers Lane, Wallingford, Delaware County, Pa.
 Schmidt, Beuther L., Anchor Hocking Glass Corp., Lancaster, Ohio
 Schmidt, William G., Ceramic Div., General Electric Res. Lab., The Knolls, Schenectady, N. Y.
 Schmunk, Louis, 70 Dunedin Dr., Toronto 18, Ont., Canada
 Schneider, Matthew P., Jr., 2931 William Tell St., Slidell, La.
 Schneider, Robert K.,† (S), 237 E. Fifth Ave., Lancaster, Ohio
 Schoeffler, Paul W. (J), 1827 Kingsdale Ave., Redondo Beach, Calif.
 Schoemaker, George, Arketex Ceramic Corp., 6 N. Walnut St., Brazil, Ind.
 Schoeninger, Irvin W.,† 5250 N. Shoreland Ave., Milwaukee 11, Wis.
 Schoenlaub, Robert A., Sylvester & Co., Aurora Rd., Solon, Ohio
 Schoepel, Norman,† 10 Elm Tree Dr., Mexico, Mo.
 Schofield, Daniel A., Ch. E. B. 310, University of Texas, Austin, Texas
 Schofield, H. Zane,*† 894 Chambers Rd., Columbus 12, Ohio
 Scholes, Addison B., Sylvania Electric Products, Inc., 825 Lexington Ave., Warren, Pa.
 Scholes, S. R.,* Box 752, Alfred, N. Y.
 Schols, Leon V. F. M., Graaf Van Waldeckstraat 33, Maastricht, Holland
 Schoonenberg, P. J., Bibliotheekcentrale, N. V. Philips' Gloeilampenfabrieken, Eindhoven, Holland
 Schotsman, J., Kruisstraat 31, Dieren, Netherlands
 Schottland, A. H., Standard Bent Glass Co., Butler, Pa.
 Schotts, Walter H.,† 23 E. Southington Ave., Worthington, Ohio

- Schrader, David M. (J), Apt. 11, 23 City Ave., Bala Cynwyd, Pa.
- Schramm, Edward,* Onondaga Pottery Co., Syracuse 4, N. Y.
- Schreckengost, Don,* 2617 St. Clair Ave., East Liverpool, Ohio
- Schreckengost, Viktor, 2265 Stillman Rd., Cleveland Hts. 18, Ohio
- Schrevelius, Nils G., A B Kanthal, Hallstahammar, Sweden
- Schrickel, Herman H., Jr., 178 E. Pulteney St., Corning, N. Y.
- Schroeder, Fred W.,*† A. P. Green Fire Brick Co., Mexico, Mo.
- Schroll, J. R., Manufacturers Equipment Co., 218 Madeira Ave., Dayton 4, Ohio
- Schuetze, Ervin W. (J), 1310 E. Promenade St., Mexico, Mo.
- Schuh, Arthur E., United States Pipe & Foundry Co., Burlington, N. J.
- Schulhof, Andres, Lozadur, Grandes Fabricas Argentinas de Ceramica, S. A., Boulogne, F. C. N. G. B., Buenos Aires, Argentina
- Schultz, James B.,† 209 N. Canal St., Alexandria, Ind.
- Schulz, Eugene G., Jr. (S), 930 Grand Concourse, Bronx 56, N. Y.
- Schumacher, William G., 5956 N. Glenwood Ave., Chicago 40, Ill.
- Schurecht, H. G.,*† Champion Spark Plug Co., 8525 Butler Ave., Detroit 11, Mich.
- Schurtz, D. D.,* Sharp-Schurtz Co., Lancaster, Ohio
- Schwab, Leon B., 214 E. Home St., Vandalia, Mo.
- Schwalbe, F. G.,*† 1306 Craigwood Rd., Toledo 12, Ohio
- Schwartz, Bernard,† 96 Duff St., Watertown 72, Mass.
- Schwartz, Harold A., Sr. 2028 Horace Ave., Abington, Pa.
- Schwartz, M. A.,† WCRRL, Aeronautical Res. Lab., W.A.D.C., Wright-Patterson AFB, Ohio
- Schwartzwalder, Karl,*† A C Spark Plug Div., General Motors Corp., Flint 2, Mich.
- Schweickhardt, William K., 101 Ferry St., St. Louis 7, Mo.
- Schwiete, Hans-Ernst, Institut fur Gesteinshuttenkunde, Aachen, Mauerstrabe 5, Germany
- Schweitzer, Howard V., Schweitzer Equipment Co., 3764 Ridge Rd., Cleveland 9, Ohio
- Scott, J. W., 7640, Western Electric Co., Inc., Hawthorne Sta., Chicago 23, Ill.
- Scott, M. R.,† Bausch & Lomb Optical Co., Rochester 2, N. Y.
- Scott, Robert M.,† (S), 81 Fairfield St., Worcester, Mass.
- Scott, Roger F.,† 911 E. Main St., Millville, N. J.
- Scott, W. J., R.R. 11, Box 33, Indianapolis 19, Ind.
- Scott, William D. (S), 7707 Water St., Olmsted Falls, Ohio
- Seabright, Clarence A., 2201 Wascana Ave., Lakewood 7, Ohio
- Seabright, Edward C., 171 Beuland, Mt. Clemens, Mich.
- Seanoir, J. G., 2300 W. Tuscarawas St., Canton 8, Ohio
- Searle, A. B., 62, Moorcliffe, Skircoat Moor Rd., Halifax, York, England
- Searson, Leslie, James Oakes & Co. (Riddings, Ltd.) Jacks-dale, Notts, England
- Seaton, Max Y.,* Westvaco Chemical Div., Food Machinery & Chemical Corp., 161 E. 42nd, New York 17, N. Y.
- Seawell, Joe, Jr., Miller Equipment Co., Inc., Box 1566, Salisbury, N. C.
- Seckman, Harry D.,† 372½ E. Fifth, Peru, Ind.
- Secord, Robert N., Godfrey L. Cabot, Inc., Res. & Development Dept., 38 Memorial Dr., Cambridge, Mass.
- Sedalia, B. M. (S), Ceramic Dept., Missouri School of Mines, Rolla, Mo.
- Sedenka, Anthony, 1086 Magnolia Dr., Colonial Heights, Washington, Pa.
- Seeley, E. L., 1012 Neptune Ave., Chester, W. Va.
- Seemann, Wilhelm, Pipersgatan 3, Stockholm, Sweden
- Segeler, C. G., American Gas Assn., 420 Lexington Ave., New York 17, N. Y.
- Seidel, Joseph, 106½ S. Sweetzer Ave., Los Angeles 48, Calif.
- Seitz, Wolfram, Glass Containers Inc., 3601 Santa Fe Ave., Los Angeles 58, Calif.
- Sellers, John T.,† 109 Church St., Jackson, Ohio
- Semmelman, John O.,† Dentists Supply Co. of New York, College & Grantley Ave., York, Pa.
- Simple, William A., Chemicals Div., Aluminum Co. of Canada, Ltd., 1700 Sun Life Bldg., Montreal, Que., Canada
- Senters, Walter J., Washington Brick & Lime Co., Spokane, Wash.
- Sephton, H. J., Dominion Glass Co., Ltd., Chapple St., Hamilton, Ont., Canada
- Servis, Donald H., Robertson Manufacturing Co., Box 848, Trenton 5, N. J.
- Setchel, Hayden Merritt, 105 Tenth St., Streator, Ill.
- Severin, Harold (S), Box J-3, Alfred, N. Y.
- Seversike, Carroll L., 84 Sutherland Rd., Apt. 10, Brighton, Mass.
- Seymour, Samuel L., 125 Reed St., New Kensington, Pa.
- Shaffer, E. F., Ohio Power Co., Newark, Ohio
- Shaffer, Paul C., 85 Chapel St., Seneca Falls, N. Y.
- Shah, Chunilal P., Bombay Potteries & Tiles, Ltd., United India Bldg., Sir Pherozshaw Mehta Rd., Fort Bombay, India
- Shand, Errol B., 155 Reynolds Ave., Corning, N. Y.
- Shand, Rodger, L. (J), Apt. 15, 4155 Dupuis Ave., Montreal 26, Que., Canada
- Shands, Everett H., Florida Ceramic Tile Co., Box 451, 608 Prospect Rd., Lakeland, Fla.
- Shank, Jacob R., Engineering Experiment Sta., Ohio State University, Columbus 10, Ohio
- Shanks, Douglas, Shanks & Co., Ltd., Victorian Pottery, Barrhead, Near Glasgow, Scotland
- Shannon, Harry F., 2413, 525 Wm. Penn Place Bldg., Pittsburgh 30, Pa.
- Shapiro, Howard† (J), 1410 East Ave., New York 62, N. Y.
- Shapland, James T. (S), 511 S. Lynn St., Champaign, Ill.
- Shardlow, L. Russel, RCA Victor Div., Radio Corp. of America, Harrison, N. J.
- Sharp, Donald E.,* Libbey-Owens-Ford Glass Co., 1701 E. Broadway, E. Toledo 5, Ohio
- Sharp, Everett W.,† 62 N. High St., Jackson, Ohio
- Shartsis, Leo, 4514 W. Virginia Ave., Bethesda 14, Md.
- Shaug, Frank E., Pacific Div., Bendix Aviation Corp., 11600 Sherman Way, N. Hollywood, Calif.
- Shaver, Richard C., 318 Milburn Dr., Syracuse 7, N. Y.
- Shaver, W. W., 130 E. Fourth St., Corning, N. Y.
- Shaw, Anthony E., Natco Corp., 327 Fifth Ave., Pittsburgh 22, Pa.
- Shaw, Clarence F.,† 2240 N. Manning St., Burbank, Calif.
- Shaw, L. I.,† Club DelMar, Santa Monica, Calif.
- Shaw, M. C.,*† Dept. of Ceramics, Rutgers University, New Brunswick, N. J.
- Shaw, Ronald H., L. E. Shaw, Ltd., 74 Bedford Row, Halifax, N. S., Canada
- Shayna, Michael (J), 506 S. Railway St., Swift Current, Sask., Canada
- Shearer, Walter L., 15 Muirhead Ave., Trenton 3, N. J.
- Shearer, Wayne B. (J), 103 S. East St., Spring Grove, Pa.
- Shearouse, Lee A., 326 Highland Ave., Wadsworth, Ohio
- Sheehan, Robert W. (J), Ceramic Supply Co., Crooksville, Ohio
- Sheerer, Mary G.,* 6540 Hamilton Ave., College Hill, Cincinnati, Ohio
- Sheets, Herbert D.,† (J), 41 Marlowe Ave., Blasdell, N. Y.
- Sheheen, Alexander, Box 127, Alfred, N. Y.
- Sheldon, Richard S., 4224 Le Fevre Dr., Dayton 9, Ohio
- Shell, Haskiel R., Electrotechnical Lab., U. S. Bureau of Mines, Norris, Tenn.
- Shelley, C. B.,† General Refractories Co., 3201 Fruitland Rd., Los Angeles 11, Calif.
- Shelton, G. R.,* 6614 Delfield St., Chevy Chase 15, Md.
- Shelton, Philo S., Jr. (S), Box 706, Alfred, N. Y.
- Shenango Pottery Co., New Castle, Pa.
- Shepard, Anna O., 751 11th St., Boulder, Col.
- Shepherd, John F.,† Shepherd Chemical Co., Norwood, Cincinnati 12, Ohio
- Sherk, Donald, 12115 Harvard Dr., Pittsburgh 35, Pa.
- Sherrill, Ernest, Westwood Ceramics Supply Co., 11250 W. Pico Blvd., Los Angeles 64, Calif.
- Sherrill, Robert R., 945 Industrial Pl., El Cajon, Calif.
- Sherwin, Ronald W., H. R. Johnson, Ltd., Tunstall, Stafford, England
- Sherwood, Robert F.,*† 33 Summit Rd., Port Washington, Long Island, N. Y.
- Shevlin, Thomas S.,† Engr. Expt. Sta., Ohio State University, Columbus 10, Ohio
- Shield, Richard (S), University of Texas, C. P. Hall, Rm. 107, Austin, Texas
- Shimada, Hachiro, No. 2867, 1-Chome, Sanno, Ota-ku, Tokyo, Japan
- Shimada, Kuro, Shimada Glass K. K., No. 47 Shimo-3-Chome, Ebie, Fukushima-Ku, Osaka, Japan
- Shimer, J. B., 3212 Kenwood Blvd., Toledo 6, Ohio
- Shimman, Norman C., 2348 Ventura Dr., R. R. 4, Walled Lake, Mich.
- Shinn, Joseph M., Jr., 437 Vermont Pl., Columbus 1, Ohio
- Shipley, R. A., NATCO Corp., 327 Fifth Ave., Pittsburgh 22, Pa.
- Shively, R. R.,* Box 519, Washington, Pa.
- Shively, Robert R., Jr., Mathieson Chemical Corp., 2416 Gulf Bldg., Houston, Texas
- Shoemaker, Clifford P., Laclede-Christy Co., 812 Arcade Bldg., St. Louis 1, Mo.
- Shoffner, James E., Jr., Box 159, Ione, Calif.
- Shonkwiler, Francis P.,† 10436 S. Hamlin Ave., Chicago 43, Ill.

- Shook, Thurston W., British Ceramic Service Co., Ltd., Bricesco House, Park Ave., Welstanton, Stoke-on-Trent, England
- Shook, William B.† (S), 3035 Pontiac St., Columbus, Ohio
- Shoot, Lyle E. (J), 7064 Eastern Ave., Washington 12, D. C.
- Shopier, Sterling D., 415 E. Monroe, Mexico, Mo.
- Short, Albert P., Charles Taylor Sons Co., 401 N. Broad St., Philadelphia 8, Pa.
- Short, Allan M., 1643 A, Saudi Arabia
- Shorter, A. J., Bonnybridge Silica & Fireclay Co., Ltd., Bonnybridge, Stirling, Scotland
- Shulze, Charles E.† (S), 809 E. Sixth St., Rolla, Mo.
- Shurtz, Robert F., 258 W. Basic Rd., Henderson, Nev.
- Shute, Robert L., Battelle Memorial Inst., 505 King Ave., Columbus 1, Ohio
- Sidwell, John L., H. C. Spinks Clay Co., Inc., 1000 First National Bank Bldg., Cincinnati 2, Ohio
- Siefert, August C., Owens-Corning Fiberglas Corp., Newark, Ohio
- Siegrist, Paul F., Erie Resistor Corp., 644 W. 12th St., Erie, Pa.
- Siegwald, Clyde R.,† 816 Quinby Ave., Wooster, Ohio
- Sievert, Guilio E., 2645 Hollister Terrace, Glendale 6, Calif.
- Signorella, Joseph E., 1812 Kenneth Ave., New Kensington, Pa.
- Sigwart, Harry J., 732 Beechurst Ave., Morgantown, W. Va.
- Silk, Karl, Messrs. Jury Holloware Ltd., Brierley Hill, Staffs, England
- Silva, Alfonso, Refractories "Lota Green" S. A., Casilla 145 V, Valparaiso, Chile
- Silverman, Alexander,*† 1514 Denniston Ave., Pittsburgh 17, Pa.
- Silverman, William B.,*† Owens-Illinois Glass Co., 1700 Westwood Ave., Toledo 1, Ohio
- Simavilla, Juan M., c/o Cristalerías Rigolleau, S. A., Berazategui, F. C. N. G. R., Buenos Aires, Argentina
- Simcock, H. J., "Cranford," Lovatt Ave., Milehouse, Newcastle, Stafford, England
- Simison, A. L.,† Owens-Corning Fiberglas Corp., Toledo, Ohio
- Simmen, Fred G., 964 Terrace Blvd., Trenton 8, N. J.
- Simmingskold, Bo, Glasinstitut i Vaxjo, Smedjegatan 3, Vaxjo, Sweden
- Simmons, E. E., Jr., 455 S. Oakland Ave., Pasadena 5, Calif.
- Simmons, Milton L., Ferro Corp., International Div., 4150 E. 56th St., Cleveland 5, Ohio
- Simmons, Thomas Short (S), Box 5247, Georgia Tech, Atlanta, Ga.
- Simon, A. G., 3650 Fairresta, LaCrescenta, Calif.
- Simonds Worden White Co. (F. R. Henry), N. Summit St. & Negley Place, Dayton 7, Ohio
- Simonis, Paul, Administrateur-delegue, Société Belge de Céramique "Cerabel," 2, rue de la Regence, Bruxelles, Belgium
- Simons, T. Mitchell, Jr., 9186 E. Jaylee Dr., Temple City, Calif.
- Simonsen, Victor G., Ceramica São Caetano S. A., Caixa Postal 278, São Paulo, Brazil
- Simpson, Alexander,*† R.R. 1, Sarver, Pa.
- Simpson, Frederick H. (S), 9046—12th Ave., N. W., Seattle 7, Wash.
- Simpson, Harold E.,*† New York State College of Ceramics, Alfred, N. Y.
- Simpson, James E. (J), 3431 Mapledale Rd., Cleveland 9, Ohio
- Simpson, Thomas P., Socony-Vacuum Oil Co., Inc., Research & Development Dept., Paulsboro, N. J.
- Sinclair, Robert R., 510 S. Osage Ave., Inglewood, Calif.
- Singer, Felix,* Keramos House, 46, Castlemaine Ave., S. Croydon, Surrey, England
- Singmaster, James A., 420 Lexington Ave., New York 17, N. Y.
- Sirovy, George, Century Vitreous Enamel Co., 6641 S. Narragansett Ave., Chicago 38, Ill.
- Siska, Albert H.† (J), 822 Ellis Ave., Ashland, Ohio
- Sissons, Gordon H., 320 First St., Medicine Hat, Alta., Canada
- Sixt, Lawrence F., Box 3, Wellsville, Ohio
- Skelly, David C., 904 Vermont Ave., Pittsburgh 34, Pa.
- Skelly, John C. (J), Old York Rd., Hartsville, Pa.
- Skeoch, Walter K., 320 S. Mission Rd., Los Angeles 33, Calif.
- Skinner, Kenneth G.,† 3615 Lucinda Dr., Knoxville 18, Tenn.
- Skinner, Roger D., 600 Montour St., Montoursville, Pa.
- Skogen, Haven S. (S), 198 Bevier Rd., University Heights, New Brunswick, N. J.
- Skok, John J. (S), 1434 N. Ridge Rd., Lorain, Ohio
- Skurcenski, Anton, H. I. Thompson Co., 1733 Cordova St., Los Angeles 7, Calif.
- Slayter, Games,* Owens-Corning Fiberglas Corp., Newark, Ohio
- Slick, E. E., Jr., Haws Refractories Co., 407 Main St., Johnstown, Pa.
- Sluss, Olen R., 715 S. Chapel St., Louisville, Ohio
- Slyh, John A.,*† Battelle Memorial Institute, 505 King Ave., Columbus, Ohio
- Small, Carlton F., Jr. (J), 602 Noble St., Norristown, Pa.
- Smalley, Howard F.,† Research Div., Pemco Corp., 2554 Greenmount Ave., Baltimore 18, Md.
- Smart, Frank H., 24 Frederick St., Montclair, N. J.
- Smith & Stone, Ltd. (W. B. Ford), Georgetown, Ont., Canada
- Smith, Adrian F., 86 E. Third St., Corning, N. Y.
- Smith, Alden J., 524 W. Findlay St., Carey, Ohio
- Smith, A. O., Corp. (W. A. Deringer), 3533 N. 27th St., Milwaukee, Wis.
- Smith, Arnold N., T & R Boote, Ltd., Burslem, Stafford, England
- Smith, C. A.,† Mexico Refractories Co., Mexico, Mo.
- Smith, Dudley C., Main & Chestnut, Vineland, N. J.
- Smith, Earl R., Research Labs., Pittsburgh Plate Glass Co., Creighton, Pa.
- Smith, G. Sherwood (S), R. R. 4, Jefferson, Iowa
- Smith, Gail P., R.R. 3, Box 120, Corning, N. Y.
- Smith, H. P., Jr., Hufford Machine Works, Inc., 1700 E. Grand Ave., El Segundo, Calif.
- Smith, H. Russell, Box 757, East Liverpool, Ohio
- Smith, Harlan D., Wellsville Fire Brick Co., Wellsville, Mo.
- Smith, Harry W., 9825 Eastbrook Dr., Overland 14, Mo.
- Smith, Herbert A., Palm, Fechteler & Co., Box 750, East Liverpool, Ohio
- Smith, Hillard A.,† 159 Chestnut Ave., Metuchen, N. J.
- Smith, Howard J., 101 Godwin Ave., East Paterson, N. J.
- Smith, J. Ernest, 1317 Putnam Ave., Plainfield, N. J.
- Smith, J. Talbot, 44 Lookover Lane, Yardley, Pa.
- Smith, James, United Fireclay Products, Ltd., Bathville Office, Armadale, West Lothian, Scotland
- Smith, James N., Jr., "Arborlaen," R.R. 5, New Bern, N. C.
- Smith, John J., 1107 Highland St., Tarentum, Pa.
- Smith, Karl W. S., Charles Taylor Sons Co., Cincinnati 14, Ohio
- Smith, Kenneth E.,*† 4717 W. 16th St., Indianapolis 44, Ind.
- Smith, Leland, Box 52, Holly Springs, Miss.
- Smith, Peter Williamson, 20 Park Ave., Flemington, N. J.
- Smith, Ralph O., 30 Chestnut St., Salem, N. J.
- Smith, Richard D., c/o P. Max Smith, Box 24, Beach City, Ohio
- Smith, Richard E., 114 Pleasant St., Manchester, Mass.
- Smith, Richard M., 215 Seneca St., Corning, N. Y.
- Smith, Robert A., Murray Corp. of America, 1900 S. Washington, Scranton, Pa.
- Smith, Robert K., 149 Reynolds Ave., Corning, N. Y.
- Smith, Rowland D., 12 Woodlawn Ave., Corning, N. Y.
- Smith, Rufus J., Jr., 306 S. Jefferson St., Goldsboro, N. C.
- Smith, T. Sydney (S), Brightwood, Va.
- Smith, William L., Harris Clay Co., Spruce Pine, N. C.
- Smithberger, Earl, American Kitchens Div. of Avco, 18th St., Connersville, Ind.
- Smock, Alden W., 41 Euclid Ave., Columbus 1, Ohio
- Smoke, Edward J., 11 Edgewood Rd., Metuchen, N. J.
- Smoot, Bransford A. (J), 509 E. Promenade, Mexico, Mo.
- Smoot, Jack M.,† Chamblee, Ga.
- Smothers, W. J., Box 64, University Sta., Fayetteville, Ark.
- Smyly, James P. (J), 1924 Ashland Ave., Charlotte, N. C.
- Smyth, Harold T., New Jersey Ceramic Research Sta., Rutgers University, New Brunswick, N. J.
- Snoddy, John H., 2501 Verbena Dr., Los Angeles 28, Calif.
- Snow, L. James, Mifflinville, Pa.
- Snow, Roland B., Research Lab., United States Steel Corp., Kearny, N. J.
- Snyder, Ernest B.,† Wheeling Steel Corp., Steubenville S. Plant, Steubenville, Ohio
- Snyder, Nicholas H., 531 Maple Ave., Trenton 8, N. J.
- Societa Italiana Refrattari Marghera Azionaria (Domenico Giacomelli), Via Industrie 52, Casella Postale 38, Marghera, Italy
- Societe Ceramique (Comte L. de Meeus d'Argenteuil), Hoge Barakkenstraat 6, Maastricht, Netherlands
- Societe Francaise De Ceramique (Y. Letort), 44 Rue Copernic, Paris 16, France
- Society of Glass Technology, R. W. Douglas, "Thornton", Hallam Gate Rd., Sheffield, 10, England
- Socony-Vacuum Oil Co. (W. B. Stevens), 26 Broadway, New York 4, N. Y.
- Soderstrum, William K. (J), 1151 Bookcliff Ave., Grand Junction, Col.
- Sohn, Erwin,* Box O, Sta. A, Joplin, Mo.
- Solomon, Earl,† 1657 Boston Ridge Rd., Orchard Park, N. Y.
- Solvay Process Div., Allied Chemical & Dye Corp., Librarian, Syracuse 1, N. Y.
- Somers, A. J., Borax Consolidated, Ltd., Regis House, King William St., London E. C. 4, England
- Sommerville, J. L.,† 283 Atlantic St., Bridgeton, N. J.

Sondles, Merrill C., Paden City Pottery Co., Paden City, W. Va.
Sonenshine, Lewis (S), 1215 Pennsylvania Ave., E., Warren, Pa.
Sontz, Arthur,† 8054 S. Crandon Ave., Chicago 17, Ill.
Sosman, Robert B.*† (Honorary), School of Ceramics, Rutgers University, New Brunswick, N. J.
South, Furman, Jr., Lava Crucible-Refractories Co., First National Bank Bldg., Pittsburgh 22, Pa.
Southern Potteries, Inc. (H. W. Kibler), Box 279, Erwin, Tenn.
Sovereign Potters, Ltd. (R. V. Miller), Hamilton, Ont., Canada
Sowman, Harold G., 1480 Grand Blvd., Schenectady, N. Y.
Soxman, Edwin J.† (S), Box 117, Alfred N. Y.
Spangenberg, William C. (J), Metal & Thermit Corp., Carteret, N. J.
Sparks, Edgar W., 406 Unaka Way, Erwin, Tenn.
Sparrow, Paul F., 610 Shady Dr. E., Pittsburgh 16, Pa.
Speers, Samuel F., The Evans Case Co., 21 East St., North Attleboro, Mass.
Speil Sidney,† Johns-Manville Co., Research Ctr., Manville, N. J.
Spence, C. F., 1004 Grandon Ave., Columbus 9, Ohio
Spence, Harold I., Klabin Irmãos & Cia, Ave. Suburbana, 5472 Meier, Rio de Janeiro, Brazil
Spencer, Charles D.,* Lamp Development Lab., Lamp Dept., General Electric Co., Nela Park, Cleveland 12, Ohio
Spencer, Howard G., III,† 232 N. Main St., Suffolk, Va.
Spencer-Strong, G. H.,*† 109 Witherspoon Rd., Baltimore 12, Md.
Spengler, H. H., Glass Technology Lab., General Electric Co., 1133 E. 152nd St., Cleveland, Ohio
Sperring, Richard F. (J), U.S.S. Ashtabula (AO51) c/o FPO, San Francisco, Calif.
Spinks, H. C., Clay Co., Inc. (R. B. Carothers), Box 829, Paris, Tenn.
Spinner, Sam, National Bureau of Standards, Washington, D. C.
Spires, Lowell Albert, Gibson Refrigerator Co., 515 W. Williams St., Greenville, Mich.
Spires, Stephen T.,† North American Refractories Co., Mt. Union, Pa.
Spoerry, Henry, J. Schmidheiny & Co., Ltd., Heerbrugg, (St.G.), Switzerland
Spriggs, Richard M. (J), 35 Murtland Ave., Washington, Pa.
Spring, George E. (S), Box 3517, Georgia Tech., Atlanta, Ga.
Sproat, Ira E.,*† R. T. Vanderbilt Co., 230 Park Ave., New York 17, N. Y.
Spruck, Richard F., Coors Porcelain Co., Golden, Colo.
Square D Company (Ralph E. Hanna), Molded Insulation Div., Peru, Ind.
Squier, Arthur A., 1616 Walnut St., Philadelphia 3, Pa.
Staatliche Porzellan-Manufaktur Berlin (Gerhard Muller) (13a) Selb/Oberfr., Hartmannstrasse 1-3, U. S. Zone, Germany
Staats, Henry N., 7300 W. Lawrence Ave., Chicago 31, Ill.
Stach, Otto R., The Carborundum Co., Refractories Div., Box 268, Perth Amboy, N. J.
Stadler, Leo E., 1057 Plymouth St., Windsor, Conn.
Stafficker, Charles F., 506 Grandview Ave., Vineland, N. J.
Stafford, W. L.,*† Johns-Manville Research Center, Box 159, Manville, N. J.
Stahmann, John A., 4275 Verdugo Rd., Los Angeles 65, Calif.
Stalego, Charles J., 227 N. Fifth St., Newark, Ohio
Standard Brick & Tile Corp. (Clifford A. Kleymeyer), Evansville 8, Ind.
Standard Ultramarine & Color Co. (L. F. May), Huntington 18, W. Va.
Stangl Pottery (J. M. Stangl), Trenton 4, N. J.
Stangl, J. M., Stangl Pottery, Trenton 4, N. J.
Stanislaw, T. Stanley, Box 354, Centerport, L. I., N. Y.
Stannard, Wilford T., J. A. Dedouch Co., 608 Harrison St., Oak Park, Ill.
Stansfield, J. R. D., Streater Brick Co., Streater, Ill.
Stanworth, John E., 74 Ashlawn Rd., Rugby, Warwick, England
Stapleton, Robert E. (J), Box 34, Franklinville, N. Y.
Star Porcelain Co. (Daniel W. Luks), Trenton, N. J.
Stark Ceramics, Inc. (J. H. Stewart), Box 230, Canton, Ohio
Starkey, Daryle D., R. R. 1, Willard, Ohio
Starkey, Elmer, 4720 Bayard St., Pittsburgh 13, Pa.
Staudt, August, 264 Water St., Perth Amboy, N. J.
Stauffer Chemical Co., 420 Lexington Ave., New York 17, N. Y.
Stauffer, Kenneth H. B., 49 N. Water St., Spring Grove, Pa.
Stavrolakis, J. A., 10108 S. Calhoun Ave., Chicago 17, Ill.
Steck, C. O., One 28th St., Pittsburgh, Pa.
Steele, G. Allen, 546 Cedarhurst Ave., Dayton 7, Ohio

Steele, Harry L., Shorter & Son, Ltd., Copeland St., Stoke-on-Trent, England
Steele, Hoyt P., Benjamin Electric Mfg. Co., Des Plaines, Ill.
Steele, J. C., & Sons (J. C. Steele, Jr.), Statesville, N. C.
Steele, J. C., Jr., J. C. Steele & Sons, Statesville, N. C.
Steele, Richard E., Ram, Inc., 1064 W. Fifth Ave., Columbus, Ohio
Steele, William Perrin, Pine Hall Brick & Pipe Co., Winston-Salem, N. C.
Steffen, Don W.† (J), 52 W. Eighth St., Lovell, Wyoming
Steff, Donald J., Freeport Brick Co., Freeport, Pa.
Steil, Roy C., 3450 Garfield St., Denver 5, Col.
Stein, Colonel Alan, Millfield, Polmont, Stirling, Scotland
Stein, Colin H., 7 Melville Terrace, Stirling, Scotland
Stein, Ronald C., Messrs. John G. Stein & Co., Ltd., Bonnybridge, Scotland
Steinbock, E. A., Whip-Mix Corp., 411 W. Avery St., Louisville 8, Ky.
Steiner, Harry C., Industrial & Transmitting Tube Lab. Dept., General Electric Co., Schenectady 5, N. Y.
Steinhoff, Fred L.,*† Brick & Clay Record-Ceramic Industry, 5 S. Wabash, Chicago 3, Ill.
Stelle, John A., Arketex Ceramic Corp., Brazil, Ind.
Stenquist, Donald R. (S), Co. W NSCS, Naval Supply Depot, Bayonne, N. J.
Stent, Howard B., Box 1587, Nairobi, Kenya Colony, East Africa
Stephens, Dan E., North State Pyrophyllite Co., Pomona, N. C.
Stephenson, Samuel R., Jr. (S), 13F University Ct. Apt., Tuscaloosa, Ala.
Sterling China Co. (William T. Pomeroy), East Liverpool, Ohio
Sterling Grinding Wheel Div., Cleveland Quarries Co., (A. E. Tulk), Tiffin, Ohio
Sterling, Harry S., Corning Glass Works, Harrodsburg, Ky.
Stern, George, American Electro Metal Corp., 320 Yonkers Ave., Yonkers 2, N. Y.
Stern, Joseph, Stupakoff Ceramic & Mfg. Co., Hillview Ave., Latrobe, Pa.
Serry, William M. (S), Ceramic Engineering Div., University of Washington, Seattle 5, Wash.
Stetson, Alvin R., Research Div., Solar Aircraft Co., 2200 Pacific Highway, San Diego 12, Calif.
Stetson, Harold W. (S), Div. of Mineralogy, Pennsylvania State College, State College, Pa.
Stetson, William C.,† Box 44, Saxonburg, Pa.
Stettinius, K. E., Lapp Insulator Co., Inc., LeRoy, N. Y.
Stettner, Donald H.,† 606 Elkins Ave., Philadelphia 20, Pa.
Staubenville Pottery Co. (W. J. Mould), Staubenville, Ohio
Steuernagle, J. H., Brockway Glass Co., Inc., 1047 Seventh Ave., Brockway, Pa.
Stevens, Major Donald K., Research & Analysis Dept., The Arty School, Box 227 (AA&GM Bc) Fort Bliss, Texas
Stevens, Frank J.,† 414 Prospect St., Nutley 10, N. J.
Stevens, Joe, Murray Refractories Co., Box 338, Murray, Utah
Stevens, L. M., 2907 Alabama St., La Crescenta, Calif.
Stevens, Robert P.,† Wellsville Fire Brick Co., 1625 W. 104th Place, Chicago 43, Ill.
Stevens, W. B., Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y.
Stevenson, James K., Jr.,† R. R. 1, Mundelein, Ill.
Stevenson, Samuel, 1967 Grafton Rd., Elyria, Ohio
Stevenson, Horace, John Stevenson & Sons, Ltd., Cledford Works, Middlewich, Cheshire, England
Stewart, Alex, National Lead Co., 111 Broadway, New York 6, N. Y.
Stewart, George C., Livingston Manor, N. Y.
Stewart, Isaac, New York Testing Lab., Inc., 80 Washington St., New York 6, N. Y.
Stewart, J. H., Stark Ceramics, Inc., Box 230, Canton, Ohio
Stewart, John A., 419 Locust Ave., Washington, Pa.
Stewart, Malcolm, 310 Irwin St., San Francisco 7, Calif.
Stewart, Wilfred H., U. S. Reduction Co., Box 93, Sta. D. Toledo 8, Ohio
Stief, W. C., 158 S. Wilson Blvd., Mt. Clemens, Mich.
Stiefel, Maurice B. (J), National Bureau of Standards, Van Ness & Conn. Aves., Washington, D. C.
Stillwater Clay Products Co. (J. P. Duffy), Lock Drawer 32, Uhrichsville, Ohio
Stockdale, George F., 49 Corning Blvd., Corning, N. Y.
Stockslager, Theodore F., Carborundum Co., 24800 Lakeland Blvd., Cleveland 23, Ohio
Stockstrom, Arthur, Magic Chef, Inc., 1641 S. Kingshighway, St. Louis 10, Mo.
Stoddard, Stephen D.,† 3807 Gold St., Apt. 5, Los Alamos 1, N. M.
Stoen, Roger C.,† Cannelton Sewer Pipe Co., Cannelton, Ind.
Stoffer, Ross, American Clay Forming Co., Tiffin, Ohio

Stohl, Alfred A., North St., Sun Prairie, Wis.
 Stohl, L. A., Wisconsin Porcelain Co., Sun Prairie, Wis.
 Stolte, Norman H.,† 3974 Orchard Rd., Cleveland Heights 21, Ohio
 Stone, Benjamin, California Crafts, 43340 N. Gratiot, Mt. Clemens, Mich.
 Stone, Conrad A., 93 S. Remington Rd., Bexley, Columbus 9, Ohio
 Stone, C. P., Ferramic Industries, Ltd., 25 Hydeway, Welwyn Garden City, Herts, England
 Stone, F. R., Canada Firebrick Co., Ltd., 4741 St. Ambrose St., Montreal, Que., Canada
 Stone, Robert J., John W. Higman Co., 24 State St., New York 4, N. Y.
 Stone, Robert L.,*† Dept. of Ceramic Engr., University of Texas, Austin 12, Texas
 Stone, S. A., Deister Concentrator Co., 901 Glasgow Ave., Fort Wayne, Ind.
 Stong, Guy E., 926 W. Water St., Elmira, N. Y.
 Stookey Stanley D., 145 Pritchard Ave., Corning, N. Y.
 Stoops, Robert F.,† Carboly Dept. of G. E. Co., Box 237, Roosevelt Park P. O., Detroit 32, Mich.
 Stotler, Chalmers P., 228 Winter St., Crooksville, Ohio
 Stott, A. E., Edward Johns & Co., Ltd., Armitage, Rugeley, Stafford, England
 Stout, Byrl M., 1 Elm St., Port Allegany, Pa.
 Stout, Lester L., Ohio State University Research Foundation, Columbus 10, Ohio
 Stradley, James G. (S), R. R. 1, Newark, Ohio
 Stradley, Norman H.,† 367 Grove St., Minnesota Mining & Mfg. Co., St. Paul, Minn.
 Straight, Lee H., Iowa Clay Products Co., Centerville, Iowa
 Strain, R. E., Alliance Ware, Ltd., Box 550, Vancouver, B. C., Canada
 Stratton, Mrs. W. B., Pewabic Pottery, 10125 Jefferson Ave., Detroit 14, Mich.
 Strauss, Simon W., 3801 Connecticut Ave. N. W., Apt. 247, Washington, D. C.
 Streater Brick Co. (J. R. D. Stansfield), Streater, Ill.
 Stringfellow, Allen E., 202-C Garfield Ave., Collingswood 7, N. J.
 Strod, Arvid J.,† Industrial Metals Improvement Co., The Park Bldg., Pittsburgh 22, Pa.
 Strong, Kenneth B., 4101 Hillsboro Circle, Nashville 12, Tenn.
 Strott, Adolf J., Kearfott Co., Inc., Ceramic Dept., Little Falls, N. J.
 Stroud, Harold L., 2909 Bembridge Rd., Royal Oak, Mich.
 Stroup, Philip T., Aluminum Co. of America, Box 772, New Kensington, Pa.
 Stroupe, Howard E., Jr.,† Wheeling Tile Co., Wheeling, W. Va.
 Structural Clay Products Institute (Harry C. Plummer), 1520 18th St. N.W., Washington 6, D. C.
 Struebing, Harold J., 1215 Military Rd., Buffalo 17, N. Y.
 Stuart, Derald A., Thurston Hall, Cornell University, Dept. of Engr. Mat., Ithaca, N. Y.
 Stubbs, John M. (J), 285 Kensington Place, Marion, Ohio
 Stuckey, Jasper L., University of North Carolina, Raleigh, N. C.
 Stull, John L. (S), Box 41, Alfred, N. Y.
 Stuntz, Robert P., Babcock & Wilcox Co., 105 S. LaSalle, Chicago 3, Ill.
 Stupakoff Ceramic & Mfg. Co. (Semon H. Stupakoff), Latrobe, Pa.
 Stupakoff, Semon H., Stupakoff Ceramic & Mfg. Co., Latrobe, Pa.
 Stutz, George F. A., New Jersey Zinc Co., Library, Palmerton, Pa.
 Styer, Charles A., 11 Roxbury Rd., Forest Hills, Pittsburgh 21, Pa.
 Styhr, Karsten H. (J), 165 Rector St., Perth Amboy, N. J.
 Sullivan, Eugene C.,* Corning Glass Works, Corning, N. Y.
 Sullivan, John D.,* Battelle Memorial Institute, 505 King Ave., Columbus 1, Ohio
 Sullivan, Joseph C., 24 Fulton St., Corning N. Y.
 Sullivan, Paul A.,† (J), 4 Suter Terrace, Rochester 20, N. Y.
 Sümerbank (Bülent Büktas), Ankara, Turkey
 Summers, E. W., Owens-Illinois Glass Co., General Engineering Dept., Alton, Ill.
 Sumpter, Charles E., 6820 Magoun Ave., Hammond, Ind.
 Sumrell, Ferrall N., 707 Henry St., Uniondale, Hempstead, N. Y.
 Sun, K. H.,* 2131 Lindsay Rd., Pittsburgh 35, Pa.
 Sunray Stove Co., (J. P. McClintock), 155 S. Sandusky St., Delaware, Ohio
 Sur Enamel & Stamping Works, Ltd. (M. M. Sur), 9 Middle Rd., Entally, Calcutta, India
 Sur, M. M., Sur Enamel & Stamping Works, Ltd., 9 Middle Rd., Entally, Calcutta, India
 Suraiya, Valjee (S), 20 Theatre Rd., Calcutta 16, India

Surface Combustion Corp. (Harvey C. Weller), 2375 Dorr St., Toledo 1, Ohio
 Surfleet, Harold, Kaylene Labs., Waterloo Rd., London N.W. 2, England
 Sutherland, Clark, Pacific Clay Products, 306 West Ave. 26, Los Angeles 31, Calif.
 Sutherland, Frank R.,† R.R. 6, Box 316-A, Kokomo, Ind.
 Sutphen, F. G., 2605 Central Ave., Middletown, Ohio
 Sutton, Willard H. (S), 311 E. Beaver Ave., State College, Pa.
 Sutton, W. J., Savoy-Homann Hotel, Bandoeng, Java, Indonesia
 Svec, J. J.,† 3440 S. Euclid Ave., Berwyn, Ill.
 Swain, Stephen M.,*† 3403 Spangler Rd., Cleveland Heights 12, Ohio
 Swalm, Phaon H., Box 178, Kingston, Ont., Canada
 Swan, S. D., Sonotone Corp., Elmsford, N. Y.
 Swank, C. Ferguson, Box 630, Johnstown, Pa.
 Swearingen, Jack C., United Can & Glass Co., 131 B St., Hayward, Calif.
 Sweely, B. T.,*† Gate 12, Crystal Lake, Ill.
 Sweitzer, Mark, 320 N. Euclid, Pasadena 4, Calif.
 Swenson, George W., Minnesota Mining & Mfg. Co., 900 Fauquier Ave., St. Paul 6, Minn.
 Swentzel, John P., 8960 Hennepin Ave., Niagara Falls, N. Y.
 Sweo, Benjamin J.,* Ferro Corp., 4150 E. 56th St., Cleveland 5, Ohio
 Swicker, Victor C.,* Alexander H. Kerr & Co., 3440 Wiltshire Blvd., Suite 816, Los Angeles, Calif.
 Swift, Howard R., Libbey-Owens-Ford Glass Co., 1701 E. Broadway, Toledo 5, Ohio
 Swigart, Joseph J., 1119 Emporia St., Pittsburgh 4, Pa.
 Swindell Brothers, Inc., Bayard & Russell Sts., Baltimore, Md.
 Swindell-Dressler Corp. (Philip Dressler), Box 1888, Pittsburgh 30, Pa.
 Swinnerton, Bertram B., 21 Second Ave., Tiffin, Ohio
 Swinnerton, George R., 35 E. State St., Alliance, Ohio
 Swope, Lorelle M. (S), 214 Howard Ave., Ames, Iowa
 Sylvania Electric Products, Inc. (B. S. Ellefson), 208-20 Willets Point Blvd., Bayside, Long Island, N. Y.
 Sylvester, George R.,† Sylvester & Co., Aurora Rd., Solon, Ohio
 Szymaszek, Jan W., 121 Muir Ave., Niagara Falls, Ont., Canada

T

Taeler, David (S), 215 Thompson St., New York 12, N. Y.
 Tailby, Roland V., 127 N. Sixth Ave., Highland Park, N. J.
 Takahashi, Kakuichiro,* Nippon Glass Co., Ltd., 5, Ginza 7-Chome, Chuo-Ku, Tokyo, Japan
 Talbot, Herbert W., Jr., National Lead Co., 1376 River Ave., Pittsburgh 12, Pa.
 Talwalkar, T. W., 8 Bagmati Rd., Jamshedpur, India
 Tanberg, Ragnar, Drammens Glassverk, Drammen, Norway
 Tao, Yung (S), Box 289, Alfred, N. Y.
 Tarnacki, Walter J.,† 8417-C Lochraven Blvd., Towson 4, Md.
 Tarney, Eugene G., 114 N. Lancaster St., Reynoldsburg, Ohio
 Tarnopol, Milton S., 943 Ninth Ave., Brackenridge, Pa.
 Tate, Frank E.,† Fort Scott Pottery Co., Fort Scott, Kan.
 Tatem, William A. (S), Box J-3, Alfred, N. Y.
 Tauber, John A.,† 3190 Mayflower Rd., Plymouth Meeting, Pa.
 Tayler, John B., Louisville Pottery Co., 228 E. Bloom, Louisville 8, Ky.
 Taylor, Capt. A. L. (J), Headquarters AMC, Box 1794, Wright Field, Dayton, Ohio
 Taylor, Albert J., 106 Placer Lane, Oak Ridge, Tenn.
 Taylor, Charles D., 219 Corriher Ave., Salisbury, N. C.
 Taylor, Charles H., Jr.,† 500 Camden Ave., Apt. B1, Moorestown, N. J.
 Taylor, Fran, Gay Fad Studio, Lancaster, Ohio
 Taylor, Howard U.,† 310 Dardis Ave., Menomonee Falls, Wis.
 Taylor, J. J., The Ohio Brass Co., Barborton, Ohio
 Taylor, J. J., 3342 Chapman St., Los Angeles 41, Calif.
 Taylor, Louis J., Laboratory Equipment Corp., Box 352, St. Joseph, Mich.
 Taylor, Nelson W.,* Fluorochemicals Dept., Minnesota Mining & Mfg. Co., 900 Fauquier Ave., St. Paul 6, Minn.
 Taylor, Robert B., Structural Clay Products, Research Foundation, 20 N. Wacker Dr., Chicago 6, Ill.
 Taylor, Smith & Taylor Co. (Charles R. Landback), Chester, W. Va.
 Taylor, Thomas J., Sterner Mill Rd., R. R. 3, Langhorne, Pa.
 Taylor, William C.,* Corning Glass Works, Corning, N. Y.
 Teague, A. D., Box 923, Augusta, Ga.
 Teague, Jo M., Jr.,† Quality & Specifications Dept., Owens-Illinois Glass Co., Box 1035-1036, Toledo, Ohio
 Teeter, John N., 1260 Cavell Ave., Highland Park, Ill.
 Teetor, Paul,* Central Commercial Co., Northfield, Ill.
 Tefft, Philip W.,† 4567 Olentangy River Rd., Columbus, Ohio

Tefft, Willard H., The Claycraft Co., Upper Sandusky, Ohio
 Tegellaboratoriet (Brick Laboratory), (Christer Enberg),
 Exp. Sta. of the Royal Swedish Academy for Engineering
 Science, Drottning Kristinas vag 47, Stockholm O, Sweden
 Tennant, C. Sons & Co. of New York (William S. Deming,
 Jr.), 100 Park Ave., New York 17, N. Y.
 Tenny, Victor J. (S), Findlay, Ill.
 Terman, Mark J., Babcock & Wilcox Co., 161 E. 42nd St., New
 York 17, N. Y.
 Terry, Griffin E., 602 E. Willow, Wheaton, Ill.
 Tetrick, James D.,* 1102 E. Fourth St., Vinton, Iowa
 Thatcher Glass Mfg. Co. Inc. (Roy S. Arrandale), 1901 Grand
 Central Ave., Elmira, N. Y.
 Theobald, Erwin F., 1516 18th St. N. W., Canton 3, Ohio
 Thews, Karl B., 83-09 Talbot St., Kew Gardens, L. I., N. Y.
 Thielke, Norman R., The National Carbon Co., Box 6087,
 Cleveland, Ohio
 Thiemann, John W.,† 2550 N. 40th St., Milwaukee, Wis.
 Thiemecke, Harry W.,*† Homer Laughlin China Co., Newell,
 W. Va.
 Thiess, L. E.,* Locke Dept., General Electric Co., Box 57,
 Baltimore 3, Md.
 Thomas, Charles A. G., E. J. & J. Pearson, Ltd., Firebrick
 Works, Stourbridge, England
 Thomas, Charles W. (Honorary), Clifton House, Old Swin-
 ford, Stourbridge, England
 Thomas, David W.,† Stangl Pottery, Trenton, N. J.
 Thomas, Everett A., 2703 Shaffer Ave., Cincinnati 11, Ohio
 Thomas, H. H., 1849 Edgewood Rd., Towson 4, Md.
 Thomas, Robert H., 238 Arlington Rd., Newton Falls, Ohio
 Thomasson, Gene I. (S), 708 W. California, Urbana, Ill.
 Thompson, 2nd Lt. Robert S. (S), W.A.D.C. Gen. Delivery,
 Area B, W.P.A.F.B., Dayton, Ohio
 Thompson, A. Paul,* Research Laboratories, The Eagle-
 Picher Co., Joplin, Mo.
 Thompson, Charles W., 216 Dell St., Johnstown, Pa.
 Thompson, Clyde L.,*† 4922 New Plymouth Rd., Pittsburgh
 27, Pa.
 Thompson, Franklin S., 25 Schenck Ave., Matawan, N. J.
 Thompson, Frederick S., Corhart Refractories Co., Inc., 16th
 & Lee Sts., Louisville 10, Ky.
 Thompson, G. L., Borax & Chemicals Ltd., 229 High Holborn,
 London W. C. 1, England
 Thompson, John D., 2434 Evergreen Dr., Royal Oak, Mich.
 Thompson, M. W., Hall China Co., East Liverpool, Ohio
 Thompson, Noel M., 721 Shady Lane, Pittsburgh 34, Pa.
 Thompson, Thomas E., Box 252, Williams Bay, Wis.
 Thompson, William M., Jr.† (S), 801 Broadview Blvd., Dayton
 9, Ohio
 Thomson, Homer G., 211 N. 88th St., Wauwatosa 13, Wis.
 Thomson, James K., 21 East Shore Dr., Massapequa, N. Y.
 Thor, Murner E., 318 Parkhurst Blvd., Buffalo 23, N. Y.
 Thorley, J. Palin, Box 1143, Jamestown Rd., Williamsburg,
 Va.
 Thorngate, Bruce W., American Clay Forming Co., E. Duncan
 St., Tyler, Texas
 Thornton, George A., Ottawa Silica Co., Box 437, Ottawa, Ill.
 Thornton, Paul E.,† 4603 Lasheart Dr., La Canada, Calif.
 Thornton, Richard (S), Box C C. Alfred, N. Y.
 Thrasher, William R., Model Ceramics, Inc., 772 N. Main,
 Akron 10, Ohio
 Thuener, Everett E., R. R. 6, Schenectady 3, N. Y.
 Thurnauer, Hans,*† 1811 Hixson Pike, Chattanooga 5, Tenn.
 Thut, Walter W., A. G. Hunziker & Cie, Lagerstrasse 1,
 Zurich, Switzerland
 Tibbals, Harvey L.,† 2374 Hilgard Ave., Berkeley 9, Calif.
 Tickle, William H. F., "Brown Stacks," Caldys, Near West
 Kirby, Cheshire, England
 Tiede, Ralph L., Owens-Corning Fiberglas Corp., Case Ave.,
 Newark, Ohio
 Tillotson, Clifford, Tillotson Refractories Co., 1150 W. Sixth
 St., Corona, Calif.
 Tillotson, E. Ward,* Mellon Institute, 4400 Fifth Ave., Pitts-
 burgh 13, Pa.
 Tinker, Dean, Granville, Ohio
 Tinklepaugh, James R.,† Air Force Project, New York State
 College of Ceramics, Alfred, N. Y.
 Tipping, J., United Glass Bottle Mfgs., Ltd., 8 Leicester St.,
 London W. C. 2, England
 Titanium Alloy Mfg. Div., National Lead Co. (Arthur R.
 Rutkowski), Niagara Falls, N. Y.
 Titus, Henry B., North American Refractories Co., 50 Church
 St., New York 7, N. Y.
 Tocker, Edwin (S), 255 E. Fairmont St., State College, Pa.
 Todd, Edwin R., 2425 Vail Ave., Apt. 21-A, Charlotte, N. C.
 Todd, Henry, 1700 Lowell Ave., Niagara Falls, Ont., Canada
 Toler, Herbert R.† (J), R.R. 2, Box 544, West Chicago, Ill.
 Tom, Elgin M., 4208 Marlane Dr., Toledo 6, Ohio

Tomasek, A. J., Walsh Refractories Corp., 101 Ferry St., St.
 Louis 7, Mo.
 Tomkins, David E., 509 Norwood Ave., New Castle, Pa.
 Tool, Arthur Q.,* 7325 Carroll Ave., Takoma Park 12, Md.
 Tooley, F. V.,* 1008 S. Garfield Ave., Urbana, Ill.
 Toomey, James E., Kaiser Industries, 1625 Eye St., N. W.,
 Washington, D. C.
 Topping, John, United States Steel Co., Pittsburgh, Pa.
 Torgal, K. G., 85/1, Bhandar Galli, Belgaum, Bombay State,
 India
 Torno, Ralph F., 369 Front St., No. 1, Berea, Ohio
 Torok, Julius J., Westinghouse Electric Corp., Hoult Rd.,
 Fairmont, W. Va.
 Tostevin, Edgar R., Jr. (J), 62 E. Market St., Bethlehem, Pa.
 Toulouse, Julian H., 1817 Potomac Dr., Toledo 7, Ohio
 Townsend, Leslie W., American Encaustic Tiling Co., Lansdale,
 Pa.
 Townsend, William O.† (S), Box 83, Gilboa, Ohio
 Trabant, Loren A.,† 1024 Dodge St., Lake Geneva, Wis.
 Tredennick, William T.,† Refractory Specialties Co., 2200 Wash-
 ington Ave., Philadelphia 46, Pa.
 Treischel, C. C.,*† R. T. Vanderbilt Co., 230 Park Ave., New
 York 17, N. Y.
 Trenton Potteries Co., Plant 1, 309 N. Clinton Ave., Box 141,
 Trenton, N. J.
 Treptow, Arnold W., Bell Telephone Labs., Murray Hill, N. J.
 Trevor, John F., Moira Rd., Woodville, Burton-on-Trent,
 England
 Tribe, Harold G., Electricity Meter & Allied Industries, Ltd.,
 Box 4, Waterloo, Sydney, Australia
 Trinidad Clay Products, Ltd. (Harold A. Eckel), 44, South
 Quay, Port of Spain, Trinidad, B. W. I.
 Trinklein, Robert L., Box 722, Santa Anna, Texas
 Tripp, Harlan P.,† 1966 Langham Rd., Columbus 12, Ohio
 Trompeter, Bernard J., Champion Spark Plug Co., 8525 Butler
 Ave., Detroit 11, Mich.
 Trostel, L. J.,*† General Refractories Co., Box 1673, Baltimore
 3, Md.
 Trostel, Louis J., Jr.† (S), 1932 N. High St., Columbus 1, Ohio
 Trott, R. P., General Abrasive Co., Inc., Niagara Falls, N. Y.
 Troy, Lt. Henry N. (S), 02203096 S-2-65 AFABN, Div. Arty,
 3d Armd Div., Fort Knox, Ky.
 Troy, Walter J., 888 Chili Ave., Rochester, N. Y.
 Tse, Shou-cheng (J), Box 445, Sta. A, East Liverpool, Ohio
 Tucker, Donald J., Murray Ave., Huntingdon Valley, Pa.
 Tucker, Edward F., Stebbins Engineering & Mfg. Co., Water-
 town, N. Y.
 Tucker, Harvey C.,† Ferro Corp., 4150 E. 56th St., Cleveland,
 Ohio
 Tucker, Roland E., The Trenton Potteries Co., Trenton, N. J.
 Tufnail, Howard R., Steel Company of Wales Ltd., Box 9,
 Port Talbot, Glam. England
 Tulk, A. E., Sterling Grinding Wheel Div., Cleveland Quarries
 Co., Tiffin, Ohio
 Tung, Chi Fang (S), 607 W. High St., Urbana, Ill.
 Turbett, Paul E.,† 1127 Chickasaw Dr., Paris, Tenn.
 Turck, Raymond L., 906 N. Highland, Dearborn, Mich.
 Turk, Karl, Sr.* Pemco Corp., 5601 Eastern Ave., Baltimore
 24, Md.
 Turk, Richard H.,*† Pemco Corp., 5601 Eastern Ave., Balti-
 more 24, Md.
 Turnbull, Edward D., 500 Penn Ave., Scranton 3, Pa.
 Turnbull, John C., RCA-Victor Division, Radio Corp. of
 America, Lancaster, Pa.
 Turner, A. A., 153 Lake Ave., Metuchen, N. J.
 Turner, Donald, Messrs. Lodge Plugs, Ltd., Rugby, England
 Turner, Mort D., 1417 Addison St., Berkeley 2, Calif.
 Turner, P. P., Jr.,† c/o Thompson Products, Inc., 23555 Euclid
 Ave., Cleveland 17, Ohio
 Turner, W. E. S. (Honorary), 30 Whitworth Rd., Ranmoor,
 Sheffield 10, England
 Tuttle, George N., Benjamin Electric Mfg. Co., Des Plaines,
 Ill.
 Tuttle, Milton A., Box 981, Alfred, N. Y.
 Twells, Robert,*† Electric Auto-Lite Co., Spark Plug Div., Box
 231, Fostoria, Ohio
 Twells, Robert G.† (J), 528 Isabella Ave., Lock 4, Pa.
 Twyford, Ltd., Cliffe Vale Potteries, Stoke-on-Trent, Eng-
 land
 Tygart Valley Glass Co. (E. A. Hinkins), Washington, Pa.
 Tyler, W. S., Co. (C. E. Jenks), 3615 Superior Ave. N.E.,
 Cleveland 14, Ohio
 Tysinger, Ted W. (J), 403 S. Hargrave St., Lexington, N. C.

U

U., Camilo Valencia (S), 104 E. 15th Ave., Columbus, Ohio
 Ueltz, H. F. G., 39 West St., Worcester, Mass.

Uhrmann, Carl J.,* Imperial Glass Corp., Bellaire, Ohio
 Uleman, Turrell, 109 Virginia Ave., Aspinwall, Pa.
 Ulrich, Robert J., American Radiator & Standard Sanitary Corp., 1541 S. Seventh St., Louisville 8, Ky.
 Union Electrical Porcelain Works, Inc. (F. W. Van Orden), Box 762, Trenton 5, N. J.
 Union Francaise des Produits Refractaires (Louise Halm), 15 Rue de Milan, Paris 9*, France
 United Clay Mines Corp. (K. E. Ward), Oakland & Prospect Sts., Trenton 6, N. J.
 United Glass Bottle Mfgs., Ltd. (J. Tipping), 8 Leicester St., London W. C. 2, England
 United States Gypsum Co. (C. M. Lambe), 300 W. Adams St., Chicago 6, Ill.
 United States Steel Corp. (W. S. Debenham), 525 William Penn Pl., Pittsburgh 30, Pa.
 Universal Clay Products Co. (C. A. Bloor), Sandusky, Ohio
 Universal Dental Co. (Joseph Kohn), 48th & Brown Sts., Philadelphia 39, Pa.
 Universal Potteries, Inc. (G. D. Agnew), Cambridge, Ohio
 Universal-Rundle Corp. (H. P. Wangelin), 3305 W. Forest Home Ave., Milwaukee 15, Wis.
 Unum, Robert L., 811 Wilmington Ave., New Castle, Pa.
 Updike, George G.,† 1613 Stonewood Rd., Baltimore 12, Md.
 Upton, Lee O., American Optical Co., Southbridge, Mass.
 Urban, Richard F., 820 E St., Sparrows Point 19, Md.
 Urban, Stephen F., 268 Hartford Ave., Kenmore 23, N. Y.
 Utah Fire Clay Co. (C. H. Myers), 1078 S. First West, Salt Lake City, Utah

V

Valdes, Thomas H., N. Crescent Dr., Kittanning, Pa.
 Valentine Fire Brick Co. (W. H. Peterson, Jr.), Woodbridge, N. J.
 Valentine, Peter C., 620 Market St., San Francisco 4, Calif.
 Valia, Bhayabhai H. (S), 4043 12th Ave. N. E., Seattle 5, Wash.
 Valyi, Iisabe E., 20 S. Broadway, Yonkers 2, N. Y.
 Van Alsten, Roy,† 9410 Patton, Detroit 28, Mich.
 Van Cleave, A. A., 8100 McGroarty St., Sunland, Calif.
 Van Cott, Harrison C., R. R. 1, Horseheads, N. Y.
 Van Der Beck, Roland, Research & Development, Carborundum Co., Niagara Falls, N. Y.
 Vanderbilt, R. T., Co. (Ira E. Sproat), 230 Park Ave., New York 17, N. Y.
 Vandermade, Richard J., Apt. 204, 1425 McFarland Rd., Pittsburgh 16, Pa.
 Van Dreser, Merton L. (J), 447 N. Washington, New Braunfels, Texas
 Van Dyke, Orien W., Magnet Cove Barium Corp., Box 6504, Houston 5, Texas
 Van Gelderen, L. P., N. V. Ramie Union, Enschede, Holland
 Van Godtsenhoven, Rene, Director of S. A. Cerabel, Badour, Belgium
 Van Gordon, Donald V., Metal & Thermit Corp., Carteret Plant, Carteret, N. J.
 Van Horn, Harry T., 741 Floral Park Rd., Franklin Square, N. Y.
 Van Houten, Louis A. (J), 2029 E. Elm, Davenport, Iowa
 Van Houten, Robert M., Fusite Corp., 6000 Fernview, Cincinnati 13, Ohio
 Vanick, James S., International Nickel Co., Inc., 67 Wall St., New York 5, N. Y.
 Van Nieuwenburg, C. J., Laboratorium voor Microanalyse, De Vries van Heyst Plein No. 2, Delft, Netherlands
 Van Orden, F. W., Union Electrical Porcelain Works, Inc., Box 762, Trenton 5, N. J.
 Van Schoick, Emily C.,* New York State College of Ceramics, Alfred, N. Y.
 Van Schoik, Dickson M.,† 526 N. Washington, Royal Oak, Mich.
 Van Tassel, R. H., 527 Green Tree Rd., Kohler, Wis.
 Van Vlack, Lawrence H., Dept. of Chem. & Metal Engineering, University of Michigan, Ann Arbor, Mich.
 Van Wiggeren, Charles G., American Emery Wheel, Richmond Square, Providence 1, R. I.
 Van Zee, Arthur F., 3430 Inverness Ave., Toledo 7, Ohio
 Varga, Eugene L., O. W. Ketcham, Box 57, Crum Lynne, Pa.
 Vasilos, Thomas (S), Rm. 607B Grad. House, Massachusetts Institute of Technology, Cambridge 39, Mass.
 Vaughan, T. Carter,† Libbey-Owens-Ford Glass Co., Box 4278, Charleston 4, W. Va.
 Vghan, W. Harry,*† Atlanta Industrial Laboratories, 746 Dekalb Ave. N.E., Atlanta, Ga.
 Veale, Jack H., 80 W. Willow St., Coal City, Ill.
 Veiga, Roberto A. (S), Box 62, Alfred, N. Y.
 Venable, Charles R., Jr.,† 1660 S. Oak, Bartlesville, Okla.

Venable, Joe G., Chattanooga Glass Co., Chattanooga 10, Tenn.
 Vera, Francisco,† Privada America 1364, Monterrey, N. L., Mexico
 Veres, Frank† (J), 59 Bridge St., Seneca Falls, N. Y.
 Verzocchi, Enrico, Refrattari Verzocchi, Via Telesio 5, Milano, Italy
 Vesuvius Crucible Co. (Francis L. Arensberg), Box 8275, Swissvale, Pittsburgh 18, Pa.
 Victor Insulators, Inc. (H. Failmeizer), Victor, N. Y.
 Vidriera Monterrey, S. A. (Alfonso F. Rodriguez), Apartado 162, Monterrey N. L., Mexico
 Viger, Burnett C., 130 E. Third St., Corning, N. Y.
 Vilensky, Michel B., 1515 27th Ave., San Francisco 22, Calif.
 Vinal, Francis E., 330 Whittemore Bldg., Massachusetts Institute of Technology, Cambridge 39, Mass.
 Vincent, George L.,† 10 Farrington Rd., Oceanside, N. Y.
 Vinther, E. Heikel, Porcelainfabriken Norden, Valby Langgade 95, Copenhagen, Denmark
 Vitolo, Sylvester A.,† 23-34 25th St., Astoria, Long Island, N. Y.
 Vitreous Steel Products Co. (Edgar H. Weil), Box 1791, Cleveland 5, Ohio
 Vitro Mfg. Co. (Theodore Lenchner), 60 Greenway Dr., Pittsburgh 4, Pa.
 Vodicka, Albert L., Aetna Porcelain Enameling Co., 4701 Augusta Blvd., Chicago 51, Ill.
 Vogl, Thomas P. (J), Westinghouse Research Labs., Nuclear Physics & Electronics Div., East Pittsburgh, Pa.
 Vogt, Harold G., Corning Glass Works, Corning, N. Y.
 Von Tury, Francis J., Lehigh Ave., Perth Amboy, N. J.
 Voorhies, John H., 243 Arrow Highway, Claremont, Calif.
 Vose, Wilfred, New Zealand Pottery & Ceramic Research Assn., Private Bag, Lower Hutt, New Zealand
 Voss, Marion J., Box 761, Alfred, N. Y.
 Voss, Raymond O., Corning Glass Works, Box 544, Corning, N. Y.
 Voss, Walter C., Massachusetts Institute of Technology, Rm. 7-221, Cambridge 39, Mass.
 Vretos, Epaminondas, Heteria Lirasmaton, Institute of Chemistry & Agriculture, "N. Canello Poulos" of the Hellenic Co., Orapetsona, Piraeus, Greece
 Vukovich, Milan, Jr.,† (J), 225 Santa Maria Lane, Columbus 13, Ohio

W

Waggoner, Jack H., 240 Quentin Rd., N., Newark, Ohio
 Wagner, Bruce F., 186 N. Vernon Ave., Pasadena 3, Calif.
 Wagner, Harry E., Battelle Memorial Institute, 505 King Ave., Columbus, Ohio
 Wagner, Rio B., 1398 Brice Rd., Reynoldsburg, Ohio
 Wahl, Albert J., A. J. Wahl, Inc., 8 Central Ave., Brocton, N. Y.
 Wahlgren, Wald., A. B. Gustavsbergs Fabriker, Gustavsberg, Sweden
 Wainer, Eugene, Horizons, Inc., 2891 E. 79th St., Cleveland, Ohio
 Waite, Virgil H., 433 Beech St., Berea, Ohio
 Wakefield, Richard E. B., Shallcross Mfg. Co., Collingdale, Pa.
 Walden, Albert S., National Carbon Co., Cleveland, Ohio
 Walker, A. M., Australian Tesselated Tile Co., Mitcham, Victoria, Australia
 Walker, Eugene E., 220 W. Sheridan Ave., New Castle, Pa.
 Walker, Henry E., Harding Glass Co., Fort Smith, Ark.
 Walker, Herbert M., Walker China Co., Solon Rd., Bedford, Ohio
 Walker, John, Morgan Crucible Co., Ltd., Battersea Church Rd., London S. W. 11, England
 Walker, Prescott H., Carborundum Co., Niagara Falls, N. Y.
 Walker, Warren W., 1050 Nepperhan Ave., Yonkers, N. Y.
 Walkup, D. H., Kilgore Ceramics Corp., Box 1619, Kilgore, Texas
 Walla, Max R., Box 1369, Little Rock, Ark.
 Wallace, Arthur, 714 Battery Place, Chattanooga 3, Tenn.
 Wallace, Curtis C., Electric Storage Battery Co., Box 5723, Philadelphia 20, Pa.
 Wallace, Paul F. (J), 76 Ward Park Rd., Grand Island, N. Y.
 Wallace, William W., 415 Centennial St., New Castle, Pa.
 Walsh, Donald E., Consolidated Feldspar Dept., International Minerals & Chemical Corp., East Liverpool, Ohio
 Walsh Refractories Corp. (A. J. Tomasek), 101 Ferry St., St. Louis 7, Mo.
 Walton, Jesse D., Jr., 4835 Durden Dr., Apt. 3, Chamblee, Ga.
 Walton, S. F.,*† Exolon Co., Tonawanda, N. Y.
 Walworth, Chester A., Libbey-Owens-Ford Glass Co., Box 4278, Charleston 4, W. Va.
 Wambold, Jack, Apt. 203C Faller Dr., New Milford, N. J.

Wampler, B. Bldg., 170
 Wangelin, F. Ave., Milb
 Wanner, Ed. Ward, Calif.
 Ward, George, Kansas C
 Ward, John, K. E. Sts., Tren
 Ward, Mrs. Warde, John
 Warfield, R. Ohio
 Warren, Geo. Rochester
 Warriner, L. New York
 Waryga, Cas. Washburn, I
 Washington, Washington
 Wasmann, I. Francisco.
 Waters, Mar. Watkins, Rot
 Watkins, Ch. Watkins, Ge
 Watkins, R. Broadway
 Watkins, R. Washington
 Watkins, S. Watkins, W
 Watkins, W. 56th St., C
 Watson, Geo. Lab., Mah
 Watson, Jan. Watt, Charle
 Watt, Loren
 Watt Potter
 Watts, Arth. Corp., Der
 Watts, Arth. University
 Watson, Ral. Smelting I
 Weaver, Har. Weaver, R. A
 Webber, Joh. Weber, Berth
 Weber, Don. Fort Wayr
 Weber, Ken. Webster, Ch
 Webster, Da. Paper Co.
 Webster, Pa. Veddel, Gec
 Pittsburgh. Wehtje, Erns
 Wehtje, Karl. Wokoping, Sw
 Weidel, Robe. Weidenbaum.
 N. Y.
 Weidman, V. Weigel, Rob
 Weil, Edgar. Cleveland
 Kil, Kurt E. Paulo, Bra
 Weiner, Geor. Chicago, Ill
 Welfurtner, National City
 Weinstein, A. Weintritt, D
 Texas
 Weise, Rober. Weiser, Rosa
 Weiske, Ino. Weiss, E. Jos
 Austin, Tex. Weiss, W. R

Wampler, Roy W., Libbey-Owens-Ford Glass Co., Technical Bldg., 1701 E. Broadway, Toledo 5, Ohio
Wangelin, H. P., Universal-Rundle Corp., 3305 W. Forest Home Ave., Milwaukee 15, Wis.
Wanner, Edwin F., Box 141, R.R. 3, Bellevue, Pittsburgh 2, Pa.
Ward, Clifford D., 74 S. San Gabriel Blvd., Pasadena 10, Calif.
Ward, George W., Gustin-Bacon Mfg. Co., 210 W. Tenth St., Kansas City, Mo.
Ward, John F., Johns-Manville, 22 E. 40th St., New York, N. Y.
Ward, K. E., United Clay Mines Corp., Oakland & Prospect Sts., Trenton 6, N. J.
Ward, Mrs. S. Paul, 601 Mission St., South Pasadena, Calif.
Warde, John M., 22 Outer Dr., Oak Ridge, Tenn.
Warfield, Robert A., 2460 E. Livingston Ave., Columbus 9, Ohio
Warren, George, Pfaudler Co., Research Lab., 1000 West Ave., Rochester 3, N. Y.
Warriner, Lendall P., c/o Cyprus Mines Corp., 161 E. 42nd St., New York 17, N. Y.
Waryga, Casimer F., 342 E. Ashdale, Philadelphia 20, Pa.
Washburn, Lucius H., Box 242, Alfred, N. Y.
Washington Brick Co. (John R. Clark, Jr.), Muirkirk, Md.
Washington Porcelain Co. (C. H. Ackerson), Willow St., Washington, N. J.
Wasmann, Russell K., Laclede-Christy Co., 391 Sutter, San Francisco, Calif.
Waters, Martin R., 28 Sweetbriar Lane, Levittown, Pa.
Watkin, Robert W., 2507 St. Clair Ave., East Liverpool, Ohio
Watkins, Charles (S), Box J-3, Alfred, N. Y.
Watkins, George B., Libbey-Owens-Ford Glass Co., 1701 E. Broadway, Toledo, Ohio
Watkins, Ray T., U. S. Tariff Commission, Ceramic Div., Washington, D. C.
Watkins, S. J., 828 S. Garfield, Hinsdale, Ill.
Watkins, W. J., Kentucky Clay Mining Co., Mayfield, Ky.
Watkins, William E.† (S), Allied Engineering Co., 4156 E. 56th St., Cleveland, Ohio
Watson, George F., American Brake Shoe Co., Metallurgical Lab., Mahwah, N. J.
Watson, James M. (J), 700 First Ave., Farmville, Va.
Watt, Charles (S), 4731 21st, N. E., Seattle 5, Wash.
Watt, Loren, Watt Pottery Co., Crooksville, Ohio
Watt Pottery Co. (Loren Watt), Crooksville, Ohio
Watts, Arthur P., A C Spark Plug Div., General Motors Corp., Dept. 3103, Flint, Mich.
Watts, Arthur S.*† (Honorary), Lord Hall, Ohio State University, Columbus 10, Ohio
Weaton, Ralph L., St. Joseph Lead Co. of Pennsylvania, Zinc Smelting Div., Monaca, Pa.
Weaver, Harold L., 303 Chesnut St., Port Allegany, Pa.
Weaver, R. A.,* Ferro Corp., 4150 E. 56th St., Cleveland 5, Ohio
Webber, John J., 495 Moull St., Newark, Ohio
Weber, Berthold C., 3833 Saranac Dr., Dayton 9, Ohio
Weber, Don A., Deister Concentrator Co., 901 Glasgow Ave., Fort Wayne, Ind.
Weber, Kenneth E., 2742 Bennett Ave., Evanston, Ill.
Webster, Charles E.,† 311 E. Beaver St., Zelienople, Pa.
Webster, David, Development Dept., West Virginia Pulp & Paper Co., Charleston, S. C.
Webster, Paul A., Moravia Rd., Avon, Conn.
Weddell, George G., Geotic Industries, Inc., 515 S. Main St., Pittsburgh 20, Pa.
Wehtje, Ernst J., Box 269, Malmo 1, Sweden
Wehtje, Karl Fredrik, A/B Rorstrands Porslinsfabriker, Lidkoping, Sweden
Weidel, Robert A., 497 Apple Orchard Lane, Webster, N. J.
Weidenbaum, Sherman S., 18 Meadow Brook Apts., Corning, N. Y.
Weidman, V. Weslev, 201 Duncan Ave., Wilmington 3, Del.
Weigel, Robert C., 820 Woodlawn, Mexico, Mo.
Weil, Edgar H., Vitreous Steel Products Co., Box 1791, Cleveland 5, Ohio
Weil, Kurt E., Cristais Prado Ltda., Caixa Postal 10.001, São Paulo, Brazil
Weiner, George H., Deena Products Co., 825 S. Wabash Ave., Chicago, Ill.
Weinfurter, E. M., North American Refractories Co., National City Bank Bldg., Cleveland 14, Ohio
Weinstein, Alex., 200 N. Water St., Peekskill, N. Y.
Weintritt, Donald J. (J), 6816 Beechwood St., Houston 21, Texas
Weise, Robert L., 201½ E. Second St., Logan, Ohio
Weiser, Rosabel V., 253 S. Brady St., DuBois, Pa.
Weiske, Ino, Box 353, Mission, Texas
Weiss, E. Joseph,† Dept. of Ceramic Eng., University of Texas, Austin, Texas
Weiss, W. Russell, Wellsville, Mo.

Weissmann, Theodore S., 298 Red Maple Dr., S., Levittown, N. Y.
Weisz, Robert S., RCA Laboratories, Princeton, N. J.
Welch, A. Philip,† 912 Grand Ave., Ames, Iowa
Welch, Richard L., Dominion Firebrick & Clay Products, Ltd., Claybank, Sask., Canada
Weldon, Walter A.,* 621 Edgewood St., Baltimore 29, Md.
Weller, Harvey C., Surface Combustion Corp., 2375 Dorr St., Toledo 1, Ohio
Welling, Charles E., Ford Motor Co., Scientific Lab. Engr. Staff, Box 2053, M B Station, Dearborn, Mich.
Wells, A. A.,* Homer Laughlin China Co., Newell, W. Va.
Wells, J. M., Homer Laughlin China Co., Newell, W. Va.
Wells, Ralph G., United States Steel Corp., 234 Atwood St., Pittsburgh 13, Pa.
Welsch, William W., Box 12, Granville, Ohio
Welshans, L. T., Diamond Alkali Co., Painesville, Ohio
Welteren, James D. (J), 4630 Zane St., Los Angeles 32, Calif.
Wenczel, C., Wenczel Tile Co., Box 908, Trenton, N. J.
Wenczel Tile Co. (C. Wenczel) Box 908, Trenton, N. J.
Wendt, Nelson E., American Potash & Chemical Corp., 122 E. 42nd St., New York 17, N. Y.
Wenger, A. H. C., Messrs. Wengers, Ltd., Etruria, Stoke-on-Trent, England
Wenning, W. F., Ceramic Color & Chemical Mfg. Co., Box 297, New Brighton, Pa.
Werner, Alan J., 159 Watauga Ave., Corning, N. Y.
West, Frank, Haslemere Greenlane, Buxton, Derby, England
West, Howard F., 1400 Caton Ave., Joliet, Ill.
Westbrook, J. H., General Electric Co., Room 327, Research Lab., The Knolls, Schenectady, N. Y.
Western Brick Co. (I. R. Cline), Danville, Ill.
Western Clay Manufacturing Co. (A. C. Bray), Box 176, Helena, Mont.
Western Electric Co., Inc. (J. W. Scott), 7640 Hawthorne Station, Chicago 23, Ill.
Western Electric Co. (E. E. Blankenstein), 2525 Shadeland Ave., Indianapolis, Ind.
Western Feldspar Milling Co. (J. W. Magnuson), Box 671, Salida, Col.
Westfall, Emmett M. (S), Box 126, Alfred, N. Y.
Westinghouse Electric Corp. (John D. Harnish, Jr.), Derry, Pa.
Westman, A. E. R.,* Dept. of Chemistry, Ontario Research Fdn., 43 Queen's Park, Toronto 5, Ont., Canada
Westmont, O. B., Johns-Manville Products Corp., Lompoc, Calif.
Weston, Ralph H.,† Arketex Ceramic Corp., Brazil, Ind.
West Virginia Brick Co. (Claude F. Wiseman), Charleston, W. Va.
Weyl, Woldemar A.,* Dept. of Mineral Technology, Pennsylvania State College, State College, Pa.
Wheaton, Laur Don, T. C. Wheaton Co., Millville, N. J.
Wheeler, D. D., Titanium Alloy Mfg. Co., 111 Broadway, New York, N. Y.
Wheeler, William H.,† R.R. 1, Surry, Va.
Wheeling Steel Corp. (Ernest B. Snyder), Steubenville South Plant, Steubenville, Ohio
Wherry, Allen P.,† 9652 Oakdale Rd., Parma 29, Ohio
Whicher, William C. (S), 224 Ash, Ames, Iowa
Whitacre, D. D., Whitacre-Greer Fireproofing Co., Waynesburg, Ohio
Whitacre-Greer Fireproofing Co. (D. D. Whitacre), Waynesburg, Ohio
Whitacre, Maxwell L., The Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.
Whitaker, Fred A.,† 64 Linden Ave., Metuchen, N. J.
Whitaker, H., Rustless Iron Co., Ltd., Trico Works, Keighley, England
Whitaker, L. R.,*† Carolina Ceramics, Inc., R. R. 3, Columbia, S. C.
White, Frank L., 15117 E. Vernor Highway, Apt. 11, Grosse Pointe Park 30, Mich.
White, George D., Box 474, Norris, Tenn.
White, Harold E.,*† R. R. 6, "Windy Knoll," Butler, Pa.
White, J. F., 9208 Adelaide Rd., Bethesda 14, Md.
White, Jonathan S., 1302 Singer Place, Wilkinsburg, Pittsburgh 21, Pa.
White, Theodore G., 19 Scenery Rd., Pittsburgh 21, Pa.
Whitehead, Merlin H., Federal Enameling & Stamping Co., McKees Rocks, Pa.
Whitesell, Lysle E., Wellsville, Mo.
Whitfield, Robert E., Charles Taylor Sons Co., Box 58, Annex Sta., Cincinnati 14, Ohio
Whitford, William G.,* Box 38, Olympia Fields, Ill.
Whitney, Eugene H., Gladding, McBean & Co., 1500 First Ave., Seattle, Wash.
Whitney, John B., 17426 Norton Ave., Lakewood 7, Ohio

- Whittaker, Clyde M., Box 960, New Castle, Pa.
 Whittaker, G. Ward, 105 Sheraton Dr., San Antonio, Texas
 Whittaker, Harry, American Rock Wool Corp., South Plainfield, N. J.
 Whittemore, J. W.,* Virginia Polytechnic Institute, Blacksburg, Va.
 Whittemore, O. J., Vincent Clay Products Co., Box 603, Fort Dodge, Iowa
 Whittemore, O. J., Jr.,† Norton Co., Worcester 6, Mass.
 Whittemore, Russell G., Pittsburgh Plate Glass Co., 420 Ft. Duquesne Blvd., Pittsburgh 22, Pa.
 Whitwood, Robert, 25 Hurd St., Cazenovia, N. Y.
 Wicks, John S., 333 New Lenox Rd., Pittsfield, Mass.
 Widemann, R. V., Institut de Ceramique Française, 6 Grande Rue, Sevres, Seine et Oise, France
 Wiker, Richard M., 206 Rand Ave., Painted Post, N. Y.
 Wilansky, Harold, 190 Decatur St., Corning, N. Y.
 Wilcox, Herman G., 800 Ross Ave., Pittsburgh 21, Pa.
 Wilcox, James W., Alliance Clay Product Co., Alliance, Ohio
 Wild, William A. P., Albion Clay Co., Ltd., Woodville, Nr. Burton-on-Trent, England
 Wilder, David R. (J), 1212 S. Third St., Ames, Iowa
 Wilhelm, William J. (S), 318 Centre St., East Mauch Chunk, Pa.
 Wilke, William P., III, Hammond Lead Products, Inc., 5231 Hammond Ave., Box 912, Hammond, Ind.
 Wilkes, Gordon B.,* Massachusetts Institute of Technology, Cambridge 39, Mass.
 Wilkins, E. D., Kaiser Aluminum & Chemical Corp., Permanente, Calif.
 Wilkins, Ian Hugh (J), 27 Prince Charles Dr., Substation 1, Oakville, Ont., Canada
 Willems, H. W. V., 1513 Pacific Ave., Brackenridge, Pa.
 Williammee, G. Darby, R.R. 6, York, Pa.
 Williams, Alan B.,† 920 Monte Sano Ave., Augusta, Ga.
 Williams, Arthur E., 1214 Eighth St., Moundsville, W. Va.
 Williams, Charles (S), Box 716 Alfred, N. Y.
 Williams, Clyde,* Battelle Memorial Institute, 505 King Ave., Columbus 1, Ohio
 Williams, Francis J., Baroid Sales Div., National Lead Co., Box 1675, Houston 1, Texas
 Williams, Gordon R., Box 186, Florence, Ala.
 Williams, Harry M., Locke Inc., Charles & Cromwell St., Baltimore, Md.
 Williams, John A., Box 250, Trenton 2, N. J.
 Williams, John C., Franklin Manor, Apt. 3-J 2, Morristown, N. J.
 Williams, Leroy L., Jr. (J), 127 Fir, Park Forest, Ill.
 Williams, Lloyd D., Corning Glass Works, Danville, Ky.
 Williams, Robert A., Jr., American Encaustic Tiling Co., Inc., Ninth St. & Kenilworth Ave., Lansdale, Pa.
 Williams, Robert B., 1107 Westwood Ave., Chattanooga, Tenn.
 Williams, Robert M. (J), 5809 Royal Oak Ave., Baltimore 7, Md.
 Williams, Walter E.,† New Castle Refractories Co., New Castle, Pa.
 Willis, James B., 1355 Crofton Rd., Baltimore 12, Md.
 Willmore, Tracy A., 1118 W. Illinois St., Urbana, Ill.
 Wills, Albert E., 476 Parker Ave., Hackensack, N. J.
 Wills, Robert E., Box 220, Coal City, Ill.
 Willson Products, Inc. (Thomas A. Willson), Box 622, Reading, Pa.
 Willson, Thomas A., Willson Products, Inc., Box 622, Reading, Pa.
 Wilson, Calvin S., Libbey Glass Div., Owens-Illinois Glass Co., Toledo 1, Ohio
 Wilson, Charles L., 217 N. Meridian St., Brazil, Ind.
 Wilson, George, 131 Edison Ave., New Castle, Pa.
 Wilson, Hugh H. (S), Engineering Experiment Station, Ohio State University, Columbus 10, Ohio
 Wilson, John R. (S), Pi Kappa Alpha, State College, Pa.
 Wilson, Maurice S., Spring Lake Rd., Wallingford, Conn.
 Wilson, Ray H. (S), Shaw AF Base, Box 106, Sumter, S. C.
 Wilson, Robert C. (J), Glendale Manor Apts., Apt. 4A, Pleasantville, N. J.
 Wilson, Roger E. (S), Box 958, Alfred, N. Y.
 Winand, William T., Universal Major Electric Appliances Div., Inc., Box 928, Baltimore 3, Md.
 Winburn, H. L., Box 1369, Little Rock, Ark.
 Winchell, Richard, Seaboard Refractories Co., Box 151, Perth Amboy, N. J.
 Windisch, Robert P., Roseville Pottery, Inc., Zanesville, Ohio
 Winemiller, William F., 11 Ardmore Rd., Worcester 9, Mass.
 Winkel, M. Lee, Champion Brick Co., 7600 Pulaski Highway, Baltimore 6, Md.
 Winship, Lee C. (J), R. R. 2, Emporium, Pa.
 Winship, William W., Winship Silica Products Co., Freeport, N. Y.
 Winship, William W., Jr., Thermal Syndicate, Ltd., Lynbrook, N. Y.
 Winter, Aniuta, Institut d'Optique Theorique et Appliquee, 3, Bld. Pasteur, Paris (15°), France
 Winter, William E. (J), 2370 Benson Ave., Pittsburgh 16, Pa.
 Winthrop, Robert C., 2012 K St. N.W., Washington 6, D. C.
 Wisconsin Porcelain Co. (L. A. Stohl), Sun Prairie, Wis.
 Wise, L. G., E. I. du Pont de Nemours & Co., Chemical Dept., Expt. Sta., Wilmington, Del.
 Wiseman, Claude F., West Virginia Brick Co., Charleston, W. Va.
 Wishoski, I. Stanley, Industrial Heating, 1400 Union Trust Bldg., Pittsburgh 19, Pa.
 Wisnyi, Leonard G. (S), 14 Simplex Ave., New Brunswick, N. J.
 Wiss, J. E.,* 1339 Lincoln Rd., Columbus 12, Ohio
 Witmer, Frank, 612 W. Main St., Woodville, Ohio
 Witschey, Ray A., A. P. Green Fire Brick Co., 122 S. Michigan Ave., Chicago 3, Ill.
 Witter, Raymond B., Apto. 4092 Correo del Este, Chacaito-Caracas, Venezuela
 Witucki, Robert M., 832 W. Foster Ave., State College, Pa.
 Witzemann, A. W., 207 Franklin Ave., Kittanning, Pa.
 Womeldorph, R. C., Riverview Dr., Newark, Ohio
 Wood, Clifton E., 93 Elm St., South Dartmouth, Mass.
 Wood, Kenneth O., 3900 E. California St., Pasadena 10, Calif.
 Wood, Kenneth T., 102 Grace Blvd., Painted Post, N. Y.
 Wood, Lewis C., 1219 E. Fourth S., Salt Lake City 2, Utah
 Wood, Llewellyn, Jr., Carrington Woods, Milledgeville, Ga.
 Wood, Russell K.† (J), 3900 E. California St., Pasadena 10, Calif.
 Woodruff, Ernest W., 910 Custer Ave., Evanston, Ill.
 Woods, C. J., North American Philips Co., Inc., Res. & Control Inst. Div., 750 S. Fulton Ave., Mt. Vernon, N. Y.
 Woods, William J., Pennsylvania Pulverizing Co., Box 587, Lewistown, Pa.
 Woods, William J., Jr., Pennsylvania Pulverizing Co., 140 Stanwix St., Gateway Center, Pittsburgh 22, Pa.
 Woodville Lime Products Co. (J. Robert Cowell, Jr.), 2140 Jefferson Ave., Toledo 2, Ohio
 Woodward, Roger† (J), 861 Euclid Ave., Elmira, N. Y.
 Woodward, Thomas R., 2558 Oakwood Ave., Zanesville, Ohio
 Wooldridge, Morris L., 7531 S. Perry Ave., Chicago 20, Ill.
 Wooley, Seward E.,† 6 Westbury Bldg., 66 E. Cliff St., Somerville, N. J.
 Worcester Royal Porcelain Co., Ltd. (Joseph F. Gimson), Royal Porcelain Works, Worcester, England
 Worcester, W. G.,* 720 Sask. Crescent E., Saskatoon, Sask., Canada
 Work, Lincoln T., 15 N. Crescent, Manlewood, N. J.
 Worthington Corp. (Herbert E. Gallison), Industrial Mixer Div., Plainfield, N. J.
 Wortley, G. W., R. & A. Main, Ltd., Gothic Works, Falkirk, Scotland
 Wright, Edward P.,† Box 387, East Liverpool, Ohio
 Wright, Harold D. (S), 1223 Bigley Ave., Charleston, W. Va.
 Wright, J. E., Messrs. A. G. Hackney & Co., Ltd., Fairfield Pottery, Hanley, Stoke-on-Trent, England
 Wright, J. W.,† 1129 Warren St., Alton, Ill.
 Wyatt, Bradley W., Pacific Clay Products, Box 1038, Los Nietos, Calif.
 Wvckoff, W. R., Joseph Dixon Crucible Co., 167 Wayne St., Jersey City, N. J.
 Wygant, James F., Standard Oil Co. (Indiana), Engr. Res. Dept., 2400 New York Ave., Whiting, Ind.
 Wvsor, D. C., General Chemical Div., 40 Rector St., New York 6, N. Y.

Y

- Yamaguchi, Mitsuo, 72 Oakwood Ave., Arlington, N. J.
 Yamamoto, Hideo, 305 W. 89th St., New York 24, N. Y.
 Yamasaki, Kazuo, Chemical Institute Science Faculty, Nagoya University, Chikusa, Nagoya, Japan
 Yarte, Andrew A., Apartado 486, Monterrey, N. L., Mexico
 Yavorsky, Paul J., McDanel Refractory Porcelain Co., Beaver Falls, Pa.
 Yawitz, Murray, Fish-Schurman Corp., 70 Portman Rd., New Rochelle, N. Y.
 Yeater, Roy G., Fostoria Glass Co., Moundsville, W. Va.
 Yoshiki, Bumpel, Asahi Glass Co., No. 1 Benten-cho Tsurumi-Ku, Yokohama, Japan
 Young, David A., Cloud Ceramics, Concordia, Kansas
 Young, James, John G. Stein & Co., Ltd., Manuel Works, Linlithgow, Scotland
 Young, James E., Armour Research Foundation, 3417 Federal, Chicago 16, Ill.
 Young, John C.† (S), 720 S. Clark St., Mexico, Mo.

Young, John C., Portuguese Bend Club, Palos Verdes Estates, Calif.
 Young, Lloyd G., Corning Glass Works, Main Plant, Glass Tech., Corning, N. Y.
 Young, Robert J., Chicago Hardware Foundry Co., North Chicago, Ill.
 Young, Robert W., Box 355, Southbridge, Mass.
 Young, Stanley H.,† Cleveland Quarries Co., Amherst, Ohio
 Young, Vincent M., Bausch & Lomb Optical Co., Rochester 4, N. Y.
 Young, Willard G.,† W. A. Case & Son Mfg. Co., Robinson, Ill.
 Young, William O.,† Box 575, Honeoye Falls, N. Y.
 Youngblood, Charles J., Jr., Mississippi Glass Co., 88 Angelica St., St. Louis 7, Mo.
 Yount, Richard V., Knox, Pa.
 Yutzey, Marvin G., Fostoria Glass Co., Moundsville, W. Va.

Z

Zahn, William A., 10 Church St., Matawan, N. J.
 Zanowiak, Peter P., R. R. 2, Box 286, Mineral Wells, Texas
 Zapfe, Richard C., 162 Penfield St., Pomona, Calif.
 Zapffe, Carl A., 6410 Murray Hill Rd., Baltimore 12, Md.
 Zarbo, George, 2638 Latonia Blvd., Toledo 6, Ohio
 Zavis, Lewis, 11012 S. Chanera, Inglewood 2, Calif.
 Zawistowski, Arthur V.,† (J), 904 Ohio Ave., Trenton 8, N. J.

Zeiller, Irwin F., 150 Mason Drive, Flower Hill, Manhasset, Long Island, N. Y.
 Zerfoss, Samuel,* Crystal Branch, Naval Research Lab., Washington 20, D. C.
 Ziegfeld, Robert L., Lead Industries Assn., 420 Lexington Ave., New York 17, N. Y.
 Ziegler, Byron J., American Optical Co., Southbridge, Mass.
 Zimar, Frank, Corning Glass Works, Main Lab., Corning, N. Y.
 Zimmer, David C.,† 223 Chelsea St., Sistersville, W. Va.
 Zimmerman, William F., 4211 Allendorf Dr., Apt. 39, Cincinnati 9, Ohio
 Zink, George H.,† A. O. Smith Corp., 3535 N. 27th, Milwaukee, Wis.
 Zink, Harold F., Owens-Illinois Glass Co., 1700 N. Westwood Ave., Toledo 1, Ohio
 Zlotnick, Herbert (S), Box I-9, Alfred, N. Y.
 Zneimer, Joel E.,† (J), 97 Chester Circle, Raritan Garden, New Brunswick, N. J.
 Zollman, James A. (J), 1221 Penrod Ave. S. E., Roanoke, Va.
 Zudnak, Stephen J., Box 1599, Trenton, N. J.
 Zumwalt, Donald A., 13818 Woodworth Ave., E. Cleveland 12, Ohio
 Zvanut, Albert J.,† Lincoln Electric Co., 22801 St. Clair Ave., Box 3115, Cleveland, Ohio
 Zvanut, Frank J.,† 14533 Bayes Ave., Lakewood, Ohio
 Zwermann, Carl H.,† 806 W. Main St., Robinson, Ill.
 Zwetsch, Artur, Villeroy & Boch, Mettlach/Saar, Germany

Addenda

Barta, Rudolf, The University for the Chemical Silicates, Technicka Ave., 5, Prague XIX, Czechoslovakia
 Couri, Richard A., Box 109, South Woodstock, Conn.
 Douglas, Edward A. (J), 216 Fall St., Seneca Falls, N. Y.
 Fesler, Ray T., The A.A.A. Corp., Box 815, Gadsden, Ala.
 Greenlee, Charles A., Basic Refractories Inc., 845 Hanna Bldg., Cleveland 15, Ohio
 Highley, Robert W., Richard C. Remmey Son Co., 2882 W. Liberty Ave., Pittsburgh 16, Pa.

Kircher, Wolfgang (S), (22c) Aachen/Lousbergstrasse 6I, b./Dreehs, Germany
 Montgomery, Daniel (J), R. R. 2, Jacobsburg, Ohio
 Shipley, L. E., Edward Orton Jr. Foundation, 1445 Summit St., Columbus, Ohio
 Simpson, John D., Jr., Statesville Brick Co., Statesville, N. C.
 Vickers, A. Eric J., "Wynnstay," Millfield Rd., Whickham, Newcastle-upon-Tyne, England
 Wang, Franklin F. Y. (S), 405 N. Gregory St., Urbana, Ill.

National Institute of Ceramic Engineers ROSTER

Member Grade

Adcock, Albert S.
 Alberty, Duane F.
 Alt, Leslie R.
 Amberg, Charles R.
 Ammerman, J. H.
 Andrews, Andrew I.
 Archbold, Walter H., Jr.
 Arnold, Howard C.
 Arnold, Thomas M.
 Arrance, Frank C.

Austin, Chester R.
 Austin, James L.
 Babcock, Paul R.
 Bailey, Floyd
 Bair, George J.
 Baldauf, Earl E.
 Barringer, Lawrence E.
 Baumann, Henry N., Jr.
 Beam, James R.
 Beecher, Milton F.
 Beeton, Earl E.

Bennett, A. Lee
 Bennett, Dwight Granville
 Bennett, Myles P.
 Berkelhamer, Louis H.
 Betz, George C.
 Birch, Raymond E.
 Blackburn, A. Reif
 Blake, William V.
 Blau, Henry H.
 Blessing, Robert Lee
 Blume, Arthur J.
 Boeker, Victor W.

Bognar, Edwin J.
 Bollinger, Robert H.
 Booze, M. C.
 Bowne, M. S.
 Boyd, John E.
 Boyd, Robert C.
 Bradley, Richard S.
 Bradwell, Cyril
 Bramlett, William P., Jr.
 Brandt, William O.
 Brown, Lawrence H.