

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.

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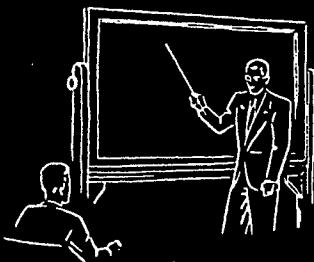
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Institute of Ceramic Engineers

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

BLHAMMER, 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.
 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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 SOXMAN, I
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JARNES, WALTER E., foreman, Robinson Clay Prod. Co., Dover, Ohio.
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 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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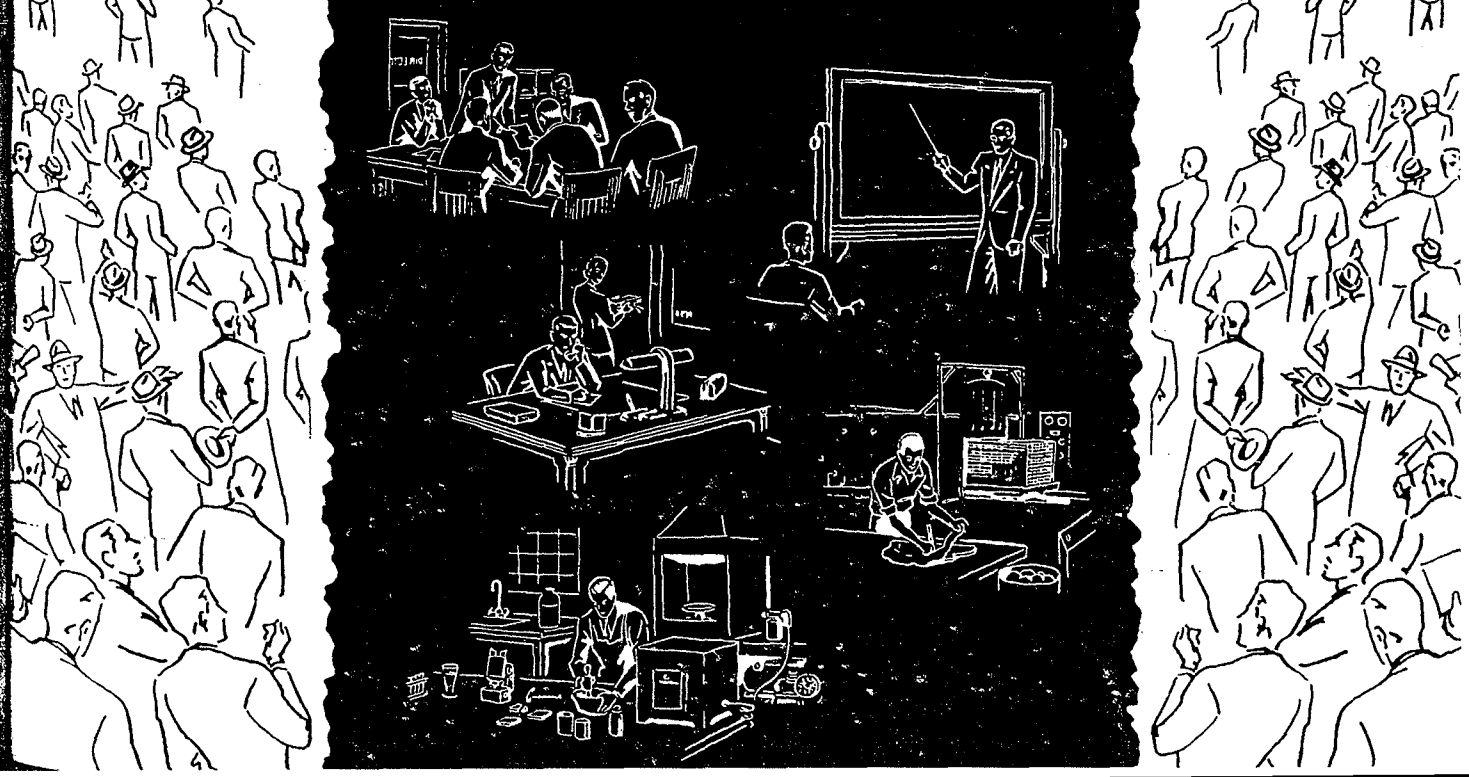
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AMERICAN Ceramic SOCIETY Bulletin

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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

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 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.
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 A C Spark Plug Div., General Motors Corp. (Karl Schwartzwalder), Flint 2, Mich.
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 Adams, Mrs. Le Roy, Adams Achers Ceramics, R.R. 2, Vashon, Wash.
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 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.
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 Babcock, Paul R.,† Frenchtown Porcelain Co., Frenchtown, N. J.
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