PLAINTIFF'S EXHIBIT
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Bulletin *of the* American Ceramic Society

A Monthly Publication Devoted to Proceedings of the Society, Discussions of Plant Problems, Discussions of Technical, Scientific, and Art Questions and Promotion of Cooperative Research

VOLUME 10, 1931

Edited by the Secretary of the Society, Ross C. Purdy

Assisted by { Emily C. Van Schoick
Mary J. Radcliffe.

Assisted by the following Officers of the Industrial Divisions

Walter P. Suter, Myrtle M. French	Art	A. E. R. Westman, Dorothy A. Textor	Refractories
Bryan A. Rice, W. N. Harrison	Enamel	Howells Fréchette, Amos P. Potts	Structural Clay Products
G. W. Morey, Lois Purdy Turner	Glass	H. G. Schurecht, Gail R. Truman	Terra Cotta
L. E. Riddle, V. V. Kelsey	Materials and Equipment	E. H. Fritz, H. M. Kraner	White Wares

Officers of the Society

E. V. Esesen, *President*
10 E. 40th St., New York, N. Y.

Alexander Silverman, *Vice-President*
University of Pittsburgh, Pittsburgh, Pa.

H. B. Henderson, *Treasurer*
Standard Pyrometric Cone Co., Columbus, Ohio

Ross C. Purdy, *General Secretary and Editor*
2525 N. High St., Columbus, Ohio

Trustees

Edward Orton, Jr.
George A. Bole
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H. C. Kleymeyer
D. F. Albery
Edward Schramm
V. V. Kelsey

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LOCAL SECTION MEETINGS

California Section

The regular quarterly meeting of the California Section was held on December 8, 1930, at the Engineers' Club, Los Angeles, Calif. Fifty members were present.

The papers presented following the dinner were as follows:

"The Ultimate Aim of Ceramics" by Cecil Jones.
"The Work Being Done in Ceramics at Lincoln High School" by Frank Baddeley.
"Tunnel Kilns and Their Present Day Application" by W. H. Schotts.

NEW MEMBERS RECEIVED

CORPORATION

Pacific Stoneware Co., Inc., Thomas W. Mann (voter), P. O. Box 130, Kenton Station, 1945 Peninsular Ave., Portland, Ore.

PERSONAL

J. W. Akam, *Aldershot, Ontario; Plant Superintendent, National Fire Proofing Co.* of Canada, Ltd.
John H. Baxter, Sales Manager, Inland Gas Corp., Ashland, Ky.
Authur Bevan, State Geologist, Box 329, University, Va.
Charles E. Golding, Box 320, Trenton, N. J.; President, Golding-Keene Co., Standard Flint & Spar Corp., Southern Feldspar, Inc.
E. R. Hershey, Superintendent, Mansfield Vitreous Enamel Co., Mansfield, Ohio.
John Klumpp, Jr., 9th & J, Elwood, Ind.; Works Manager, Macbeth-Evans Glass Co.
Glen Lukens, Department of Art, High School, Fullerton, Calif.
H. B. McKee, Wellsville Fire Brick Co., Wellsville, Mo.
Edgar B. Read, Industrial Fellow, 412 Mellon Institute, Pittsburgh, Pa.
Kenneth Eugene Smith, 7008 Zimple St., New Orleans, La.; Ceramic Chemist, Newcomb College.
Clark S. Teitsworth, 2525 E. 37th St., Los Angeles, Calif.; Supervisor Process Laboratories, General Petroleum Corp. of Calif.
Richard Carl Zapfe, Ceramic Engineer, Pomona Tile Mfg. Co., Pomona, Calif.

STUDENT

Lewis F. Cole, Rutgers University, New Brunswick, N. J.
Henry R. Herron, Missouri School of Mines and Metallurgy, Rolla, Mo.
Venton Humphries, University of Toronto, Toronto, Ontario, Canada.
Gerald Leonard Johnson, Iowa State College, Ames, Iowa.
W. F. Sterns, Iowa State College, Ames, Iowa.

Membership Workers' Record

CORPORATION		PERSONAL	
Office	1	R. B. Gilmore	1
		C. S. Linder	1
STUDENT		A. L. Matthes	1
Paul E. Cox	1	W. J. Nicholson	1
C. M. Dodd	1	S. M. Phelps	1
Frank G. Heck	1	Mary G. Sheerer	1
R. J. Montgomery	1	Office	6
D. A. Moulton	1		
	–	Total	12
Total	5	Grand Total	18

ROSTER CHANGES

PERSONAL*

Byrnes, A. Marietta, M.S.C.W., Columbus, Miss. (Memphis Academy of Arts, Memphis, Tenn.)

* Addresses within the parentheses ( ) represent the old address.

These roster changes which are published each month may be checked against the complete Membership Roster which appeared in the July, 1929, issue of the *Bulletin*. Copies of this issue may be obtained from the Secretary's office, price $2.00.

Cochran, A. D., New Florence, Mo. (The Bonnot Co., Canton, Ohio.)
Crandall, James R., 2401 Pioneer Ave., South Hills Station, Pittsburgh, Pa. (325 Pitt St., Wilkinsburg, Pa.)
Cross, James A., Robinson Clay Products Co., Dover, Ohio. (Mogadore, Ohio.)
Dickey, H. R., Canadian Potteries, Ltd., St. Johns, Quebec. (Estevan, Sask., Canada.)
Freeman, Charles A., 427 Schofield Bldg., Cleveland, Ohio. (214 E. Monroe St., Mexico, Mo.)
Grogan, Glenroy G., 6787 Olmsted Ave., Chicago, Ill. (1366 Prairie Ave., Des Plaines, Ill.)
Howell, Harriet, 3551 Denchell Rd., Shaker Heights, Cleveland, Ohio. (3 Springland, Toronto, Canada.)
Moser, John L., 4972 Pasadena Ave., Los Angeles, Calif. (411 McKinley St., Middletown, Ohio.)
Palmer, Theodore H., Royall Fire Brick & Supply Corp., Houston, Texas. (A. P. Green Fire Brick Co., Mexico, Mo.)
Schoeninger, Irvin W., 1505 N. Franklin Pl., Milwaukee, Wis.; Globe-Union Mfg. Co. (6800 Normal Blvd., Chicago, Ill.)
Scott, Walter M., 73 Newbury St., Boston, Mass. (10 E. Franklin St., Baltimore, Md.)
Spencer-Strong, G. H., 403 E. Washington St., Sandusky, Ohio. (Templeton, Pa.)
Titsworth, Adelene, 327½ N. Vermont Ave., Los Angeles, Calif. (Sonyea, N. Y.)
Willson, B. W., 121 13th St. N. E., Mason City, Iowa. (Stevens Pottery, Ga.)

NOTES AND NEWS

NEWS FROM THE CERAMIC SCHOOLS

Clayworkers' Conference[1]

The Ceramic Department of the University of Alabama is planning to hold a Conference of Clayworkers at the University, February 2, 3, and 4, 1931.

The tentative program includes such matters as the processing of raw materials, the drying and firing of ceramic products, and the general subject of combustion with both gas and coal. This program, however, will be modified in order to deal with subjects in which particular interest is shown by members who will attend. These subjects will be discussed from both a theoretical and practical standpoint and it is believed that such a program will be of value to all interested in the above topics.

R. K. Hursh of the Ceramic Engineering Department, University of Illinois, and A. V. Henry and W. H. Vaughan of the Ceramic Engineering Department of the Georgia School of Technology will give a number of the lectures. Other authorities in the field of ceramics and combustion will be invited to appear on the program. No registration fee will be charged or donations solicited.

University of Illinois

A membership drive in the Student Branch of the American Ceramic Society was culminated November 13 with a dinner at the Delta Chi fraternity house. Fifty men from the membership of the Society and members of the research and teaching staff were entertained with a talk given by Capt. L. C. Parsons, Asst. Professor of Military Science and Tactics. An informal social meeting concluded the evening's activities. Chas. H. German, '31, was in charge of the dinner arrangements.

The officers of the Student Branch for the present year are: Carl H. Rapp, *President*, K. Dean Atkins, *Vice-President*, and Charles H. German, *Secretary-Treasurer*.

[1] T. N. McVay, Professor of Ceramics.

(*f*) that there must be more appreciation of our fellow ceramists
(*g*) that the best code of ethics is unselfish coöperation on an organized program, up-to-date, and forward going
(*h*) Fellow members might well adopt these and other similar projects as items in their activity program

Yours very cordially,
ROSS C. PURDY, *General Secretary*

LOCAL SECTION NEWS

Pittsburgh Section

A joint meeting of the Pittsburgh Sections of the AMERICAN CERAMIC SOCIETY and the American Chemical Society was held Thursday evening, December 18, 1930.

Dr. Louis Navias of the General Electric Company addressed the Sections on "Liquid Immiscibility as Exemplified by Borate and Silicate Melts." The lecture was illustrated with lantern slides, and sections of glass showing immiscibility were displayed.

Pacific Northwest Section[1]

The annual winter meeting of the Pacific Northwest Section of the AMERICAN CERAMIC SOCIETY was held at the University of Washington, Seattle, Wash., January 30, 1931.

The following program was presented at the afternoon session:

(1) "Progress Report on the Testing of Refractories for Service in the Soda Recovery Furnaces of the Pulp and Paper Companies," by HAROLD E. CLEM and JACK A. CUNLIFFE, University of Washington; an illustrated discussion of the cone fusion and simulative-service, slagging tests on a number of high-grade refractories using black ash liquor from the paper mills.
(2) "Microscopic Studies of Several Mat Glazes," by FRED M. KETTENRING, University of Washington; the relationship between the crystal growth and the development of the mat texture in glazes. (Illustrated.)
(3) Illustrated lecture on the "Manufacture of Fire Brick," by G. L. ROGERS, Gladding, McBean & Co., Seattle.
(4) "The Manufacture of Glass Tank Blocks at Louisville, Kentucky, by the Corhart Electric Furnace Casting Process," by GEO. A. PAGE, University of Washington, formerly with the Corhart Refractories Co. and the Department of Ceramic Engineering, Missouri School of Mines, Rolla, Mo.; an illustrated description of the most recent development in the manufacture of large refractory block.
(5) "An Unusual Case of the Peeling of Glazed Wall Tile from Cement Backing Walls," by HEWITT WILSON. When the tiled walls of 50 bathrooms in a large Seattle apartment house drop into the bath tubs, the cohesion of slab terra cotta to its cement backing on large buildings should be investigated.
(6) "Bentonite—The Wonder Clay," by H. G. WILCOX, University of Washington; a description of a tantalizing clay material with a wide variety of uses outside the ceramic industry.

The evening session consisted of dinner at the University, a business meeting, and "The Evolution of Mullite Refractories," a motion picture made by T. S. Curtis of the Vitrefrax Corp. of Los Angeles. This film shows the development and growth of mullite crystals at high temperatures viewed under the microscope.

[1] Hewitt Wilson, *Secretary*.

REFRACTORIES DIVISION

The report of the Nominating Committee of the Refractories Division, AMERICAN CERAMIC SOCIETY, is as follows:

Chairman: A. E. R. Westman
Vice-Chairman: R. B. Gilmore
Secretary: Dorothy A. Texter
Nominating Committee { C. F. Geiger, L. J. Trostel

WHO'S WHO IN ENGINEERING
WHO'S WHO IN SCIENCE

It pays to be listed in the Who's Who of America and the Who's Who of the different specialists. These are authenticated lists of those who have achieved and earned recognition. These "Who's Who" books are consulted by those who are seeking men qualified to handle specific projects and they are sources of reference when writing history. No one is listed in them without their record being searched and endorsers' recommendations obtained.

No one who is eligible should fail to accept the opportunity to be listed in these Who's Who catalogues. This a person owes to himself, his family, his employers, and his associates.

It is not advertising of oneself. It is merely assisting in making complete the records of those who are responsible for the work-a-day affairs.

Several members of this SOCIETY have been nominated as eligibles to Who's Who in Science and to Who's Who in Engineering. Blanks have been sent to the nominees. Several have responded but the majority of the nominees have not. Some have reported that they had without consideration destroyed the application blanks. Those of our members who are interested, please write to L. W. Wallace, Executive Secretary, American Engineering Council, 26 Jackson Place, N.W., Washington, D. C., regarding Who's Who in Engineering, and to Jaques Carttell, Lime and Green Sts., Lancaster, Pa., regarding Who's Who in Science.

ROSTER CHANGES IN DECEMBER

HONORARY*

Storer, Maria Longworth, Rookwood Pottery Co., Cincinnati, Ohio.

PERSONAL*

Callinan, J. Gavin, Box 933, Clarksburg, W. Va. (Chillicothe, Ohio.)
Christensen, John B., Jr., Johns-Manville Corp., Lompoc, Calif. (Seymour, Mo.)
Kriegel, W. Wurth, P. O. Box 9, Aberdeen Clay & Color Co., Aberdeen, Wash. (U. S. Bureau of Mines, Seattle, Wash.)
Lawson, George G., 1709 Livingston St., Evanston, Ill. (Wilmette, Ill.)
Merry, E. B., Merry Bros. Brick & Tile Co., Marion Bldg., Augusta, Ga. (652 W. Peachtree St., Atlanta, Ga.)
Musselman, John E., 1308 Main St., Elwood, Ind. (472 E. 7th Ave., Tarentum, Pa.)
Ritchie, K. M., Armstrong Cork Co., Research Laboratory, Lancaster, Pa. (Membership transferred from corporation membership of Armstrong Cork Co.)

* Addresses within parentheses ( ) represent the old address.

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Savage, H. D., Scarsdale, N. Y. (Combustion Engineering Co., New York, N. Y.)
Tucker, Gus M., P. O. Box 155, Jackson Heights, N. Y. (401 Vernon Ave., Long Island City, N. Y.)
Wheeler, D. D., 2141 University Ave., Morgantown, W. Va. (American Rolling Mill Co., Middletown, Ohio.)

NEW MEMBERS RECEIVED IN DECEMBER

PERSONAL

B. L. Cassady, Route 2, Tulsa, Okla.
J. A. Crew, Central Silica Co., Masonic Temple, Zanesville, Ohio.
Donald N. Evans, 3722 Veazey St., N. W., Washington, D. C.; Junior Chemist, Bureau of Standards.
Edwin Bennett Filbert, Edwin Bennett Pottery Co., 600 South Eden St., Baltimore, Md.; Assistant General Manager.
A. A. Grubb, 180 Northmoor Place, Columbus, Ohio; Grubb & Marshall, 2525 N. High St., Columbus, Ohio.
Kurt H. Lichtenstern, I, Dominikanerbastei 10, Vienna, Austria; Steingut-Union.
Frank E. Tate, Foreman, Mt. Clemens Pottery Co., Mt. Clemens, Mich.
Macon C. Trabue, 3 Lincoln Ave., Mt. Clemens, Mich.; Foreman, Mt. Clemens Pottery Co.
Hermann F. Vieweg, 120 Rodney Ave., New Brunswick, N. J.; Associate Professor, Rutgers University.
Laurent James Yeatman, 4 Rue Blanche, Paris, France; Managing Director, Produits Céramiques & Refractaries de Boulogne S/Mer.

STUDENT

Harold R. Custer, Pennsylvania State College, State College, Pa.

Membership Workers' Record

PERSONAL		PERSONAL (*continued*)	
George H. Brown	1	Office	4
Horace F. Crew	1	Total	10
R. F. Geller	1	STUDENT	
James Gillinder	1	J. B. Shaw	1
Tom M. Place	1	Grand Total	11
Felix Singer	1		

MEMBERSHIP WORKERS' RECORD FOR YEAR 1930

CORPORATION		PERSONAL (*continued*)	
R. K. Hursh	1	W. F. Brown	1
F. H. Rhead	1	W. E. Budge	1
J. H. Stewart	1	P. P. Budnikoff	1
Office	9	B. M. Burchfiel	2
	—	W. B. Cleverly	1
Total	12	H. T. Coss	1
PERSONAL		P. E. Cox	3
		H. F. Crew	1
A. E. Baggs	1	R. R. Danielson	1
R. S. Bicknell	1	Louis Douin	1
G. A. Bole	1	Mrs. A. R. Dyer	1
G. H. Brown	1	K. H. Endell	1

PERSONAL (*continued*)		PERSONAL (*concluded*)	
G. A. Forbes	1	W. F. Steger	1
R. L. Frink	1	F. L. Steinhoff	1
R. F. Geller	1	F. H. Stewart	1
James Gillinder	1	D. A. Texter	1
R. B. Gilmore	1	Karl Turk	1
Herbert Goodwin	1	W. E. S. Turner	1
A. F. Greaves-Walker	1	Robert Twells	1
George Guthrie	1	George Tyler	1
F. M. Hartford	2	E. J. Vachuska	1
F. A. Harvey	4	S. F. Walton	1
R. A. Heindl	1	A. S. Watts	2
A. R. Heubach	1	W. F. Wenning	2
F. E. Hodek, Jr.	1	F. A. Whitaker	2
M. R. Hornung	1	Hewitt Wilson	1
F. G. Jaeger	2	H. G. Wolfram	1
Henrietta O. Jones	2	Office	54
W. V. Knowles	1		—
C. S. Linder	1	Total	138
Kai-Ching Lu	1	STUDENT	
A. L. Mathes	1		
F. A. McCann	1	C. R. Amberg	4
J. L. McFarland	1	A. I. Andrews	5
Louis T. Meyer	1	G. J. Bair	1
R. G. Mills	1	W. F. Copp	1
L. H. Minton	1	P. E. Cox	2
W. J. Nicholson	1	C. M. Dodd	3
E. H. Ockerman	2	F. G. Heck	1
J. A. Oravec	1	R. K. Hursh	1
C. W. Parmelee	1	R. J. Montgomery	2
S. M. Phelps	1	D. A. Moulton	3
T. M. Place	1	J. B. Shaw	1
F. H. Riddle	2	Hewitt Wilson	1
J. P. Rodgers	1	Office	14
F. W. Salisbury	1		—
Mary G. Sheerer	1	Total	39
Felix Singer	1		
C. D. Spencer	3	GRAND TOTAL	189

NOTES AND NEWS

CERAMIC ENGINEERING SHORT COURSE AT OHIO STATE UNIVERSITY

A short course in ceramic engineering for plant managers, superintendents, engineers, and foremen sponsored by the Ohio Ceramic Industries Association of the Department of Ceramic Engineering, Ohio State University, was held in Columbus the week of January 24.

Four separate courses of instruction were provided, covering four of the major fields of the ceramic industry, *viz.*, Structural Clay Products, Refractories, White Wares, and Metal Enamels. Special emphasis was placed upon the fundamental laws and theories upon which the various processes are based, and their relation to the finished product. Practical demonstrations were provided in the use of laboratory and testing apparatus. An opportunity for the discussion of special problems was provided in each section. In addition, a colloquium was held Wednesday, Thursday, and Friday afternoons from four to five for further discussion of special problems.

H. G. Wilcox	Research Fellow,	Seattle
George A. Page	" "	Rolla, Mo.
Charles Butler	Student	Seattle
Jess E. Tharp	"	"
F. A. Hawks	H. O. Scoffert Co.	Everett
Roy Sievers	" " " "	"
W. P. Palin	National Refractory Co.	Tacoma
H. P. Palin	" " "	"
H. M. Holway	Vitrefrax Corp.	Seattle
Madeline Flint Hosmer	Potter	"
James Hodgkiss	Port Haney Brick Co.	Vancouver, B. C.
F. W. McKenzie	Skagit Talc Co.	Seattle
C. F. Moline	" " "	"
J. D. Williams	Student	Kellogg, Idaho
E. J. Hutmacher		Seattle
Carl V. Gezelius	Student	"
Chas. Doumani	"	"
T. E. Nicholson	Gladding, McBean & Co.	Auburn
E. Davies		
C. A. Ohlin	Gladding, McBean & Co.	Renton
F. T. Houlahan	Builders Brick Co.	Seattle
W. J. Howard	Brick & Tile Assn.	"
S. R. Mercer	Gladding, McBean & Co.	Renton
Gregory L. Rogers	" " "	Seattle
Nels E. Johanson	George Scofield Co.	Tacoma
H. Hoffmann	Lake Union Brick Co.	Seattle
J. P. Hammock	Student	"
J. C. Hoskin	Gladding, McBean & Co.	Renton
Geo. H. Krueger	F. T. Crowe Corp.	Seattle
L. R. Kemoe	" " "	"
Willis E. Clark	Gladding, McBean & Co.	"
Raymond R. Smith	" " "	"
Joseph Daniels	University of Washington	"
Milnor Roberts	" " "	"
Kenneth G. Skinner	Student	"
J. H. Yates	Ceramic Lab. Univ. of Wash.	"
George Middleton	Student	"
Hewitt Wilson	University of Washington	"
Wurth W. Kriegel	Aberdeen Clay & Color Co.	Aberdeen
John Stirrat	Seattle Brick & Tile Co.	Seattle

St. Louis Section[1]

A meeting of the St. Louis Section of the AMERICAN CERAMIC SOCIETY was held January 29 at the Melbourne Hotel, St. Louis, Mo.

A five-reel motion picture film loaned through the courtesy of the Harbison-Walker Refractories Co. was presented by C. G. Eickmeyer. The film illustrates the various processes of manufacturing fire brick from the mining of the raw materials to the finished product.

California Section[2]

A meeting of the California Section of the AMERICAN CERAMIC SOCIETY was held at the Engineer's Club, Los Angeles, Monday, January 12. The officers elected for the year 1931 are as follows:

Ivan B. Branham, *Chairman*, Batchelder Wilson Co.
Gus Larson, *Vice-Chairman*, Los Angeles Brick Co.
Vernon R. Sullivan, *Vice-Chairman*, Stockton Fire Brick Co.

[1] Wallace Thoreson, *Secretary*.

[2] John S. Lathrop, *Secretary*.

John S. Lathrop, *Secretary*, Calco Tile Mfg. Co.
A. T. Wintersgill, *Treasurer*, Pacific Clay Products Co.
P. D. Burtt, *Member Executive Committee*, Illinois-Pacific Glass Co.
Max Compton, *Member Executive Committee*, Gladding, McBean & Co.

After the election of officers the following program was offered:

C. J. Simmons of Gladding, McBean & Co., gave a creditable paper on "Plant Control," explaining how the human element and the factor of chance are controlled in their factories by means of accurate control.

Robert T. Miller, of Lange & Miller, Management Councilors, delivered an enlightening paper on "Budget Control of Business," a paper which was well received and which created considerable discussion.

E. W. Morris of the Engineering Department of Westinghouse Electric and Manufacturing Co. gave an interesting illustrated talk on "The Care of Electric Motors," stressing the essential difference between sleeve bearings and roller bearings and the economic value of knowing where to use each kind for best service.

Cecil Jones of Claycraft Potteries proposed that a history of ceramics in California be compiled. This was taken under advisement by the chairman who will appoint a committee to perfect this history.

NEW MEMBERS RECEIVED IN JANUARY

CORPORATION

American Lava Corporation, Paul J. Kruesi (voter), Chattanooga, Tenn.
Colonial Insulator Co., R. W. Hemphill (voter), 973 Grant St., Akron, Ohio.

PERSONAL

Jay O. Achenbach, Philadelphia Electric Co., Philadelphia, Pa.
Bernard Thorpe Barkwell, Works Manager, Pickford, Holland & Co., Ltd., Moor Edge Silica Brick Works, Totley, Sheffield, England.
Henry Charles Biggs, Technologist, J. G. Stein & Co., Ltd., Bonnybridge, Scotland.
Freida Louise Hammers, Research Assistant in Ceramics, University of North Dakota, University Station, Grand Forks, N. D.
John J. Hazel, Chemical Engineer, Harbison-Walker Refractories Co., Vandalia, Mo.
Fred Hetu, Apt. 2, 368 Laurier Ave. West, Montreal, Quebec, Canada; General Manager, Quarry Products, Ltd.
Frank L. Marsh, Medicine Lodge, Kansas; Director of Research and Chief Chemist, Best Bros. Keene's Cement Co.
Howard D. Meincke, President, A. M. Meincke & Son, Inc., 7 S. Dearborn St., Chicago, Ill.
Robert Anderson Miller, Technical Sales Engineer, Pittsburgh Plate Glass Co., 2200 Grant Bldg., Pittsburgh, Pa.
John Blackburn Murgatroyd, 5 Waldeck Rd., London W. 13, England; Glass Technologist British Hartford-Fairmont Syndicate, Ltd.
Thomas Parker, 723 Elm St., Martins Ferry, Ohio; Ceramic Instructor, Wheeling High School, Wheeling, W. Va.
Fred W. Peterson, 1277 Bryden Rd., Columbus, Ohio; Assistant Ceramic Engineer, Claycraft Mining & Brick Co.
Harry J. Sigwart, 732 Beechurst Ave., Morgantown, W. Va.; Chemist, Seneca Glass Co.
R. J. Spence, Babcock & Wilcox Co., Candler Bldg., Atlanta, Ga.
John Anthony Sugden, 1 Claremont Terrace, Norton-on-Tees, Co. Durham, England; Ceramic Chemist, Imperial Chemical Industries, Ltd.
Homer Gordon Thomson, 1441 44th St., Milwaukee, Wis; A. O. Smith Corp.
Edward D. Turnbull, 500 Penn Ave., Scranton, Pa.; Chemical Engineer, Euston Lead Co.
Lance Turnbull, 5941 Rita Ave., Huntington Park, Calif.; Ceramic Engineer, Vitrefrax Corp., Los Angeles, Calif.

STUDENT

Adrian G. Allison, Ohio State University, Columbus, Ohio.
Robert S. Green, University of Missouri, Rolla, Mo.
Roy Edison Jordan, Jr., Rutgers University, New Brunswick, N. J.
Alfred A. Mitchell, University of Missouri, Rolla, Mo.
Andrew Leo Parana, Pennsylvania State College, State College, Pa.

Membership Workers' Record

CORPORATION		PERSONAL (*continued*)	
Office	2	C. F. Tefft	1
		W. E. S. Turner	2
PERSONAL		Office	5
J. E. Brinckerhoff	1	Total	18
W. E. Budge	1		
Paul E. Cox	1	STUDENT	
C. E. Fulton	1		
J. Holland	1	J. L. Carruthers	1
W. A. Hull	1	C. M. Dodd	1
G. M. Hutt	1	R. G. Mills	1
J. F. Hyslop	1	J. B. Shaw	1
J. S. McDowell	1	Office	1
R. T. Stull	1	Total	5
		Grand Total	25

ROSTER CHANGES IN JANUARY

CORPORATION*

Associated Tile Manufacturers, H. L. Gaardsmoe (voter), 420 Lexington Ave., New York, N. Y. (M. A. Illing (voter).)

PERSONAL*

Burr, Robert B., Columbus National Bank, Columbus, Ga. (183 Poplar Circle, Atlanta, Ga.)
Clemens, Eugene C., Cannelton Sewer Pipe Co., Cannelton, Ind. (204 Ceramic Bldg., Urbana, Ill.)
Douglas, Freeman S., Babcock & Wilcox Co., Box 923, Augusta, Ga. (Box 108, E. Liverpool, Ohio.)
Eatherton, Clarence Z., Buckeye Clay Pot Co., Toledo, Ohio. (Porcelain Products Inc., Parkersburg, W. Va.)
Fitzgerald, A. E., 118 Narberth Ave., Narberth, Pa. (106 S. 16th St., Philadelphia, Pa.)
Forman, L. P., 406 California Ave., Oakmont, Pa. (American Window Glass Co., Arnold, Pa.)
French, Gordon E., 173 Cameron St., Rochester, N. Y. (Box 381, Woodbridge, N. J.)
Gano, J. R., Hegeler Zinc Co., Danville, Ill. (Membership transferred from Robert A. Whitfield.)
Gotham, Thomas B., Darm's Hotel, San Fernando Blvd., Burbank, Calif.; Empire China Co. (San Mateo, Calif.)
Hemstegger, Samuel E., U. S. Gypsum Co., 300 W. Adams St., Chicago, Ill. (48 St. Marks Place, New Brighton, S. I., N. Y.)
Lampe, Chester E., 609 East Healy, Champaign, Ill. (728 South 8th St., Quincy, Ill.)
Lang, George F., Vice-President, Carr-Lowrey Glass Co., Baltimore, Md. (Membership changed from August F. Kammer, 606 Liggett Bldg., New York, N. Y.)

* Addresses within parentheses ( ) represent the old address.

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Lynn, Don C., Koppers Research Corp., Mellon Institute, Pittsburgh (13), Pa. (Smithton, Pa.)
Martz, Joseph A., 38 East 18th Ave., Columbus, Ohio. (P. O. Box 274, Newton Falls, Ohio.)
Miller, Robert V., 356 Concord, Greensburg, Pa. (821 Orchard Lane Ave., East Liverpool, Ohio.)
Murphy, Remington M., 509 W. Third St., Elmira, N. Y. (35 E. Pultney St., Corning, N. Y.)
Owens, J. B., 32 Snediker Ave., Brooklyn, N. Y. (509 W. 33rd St., New York, N. Y.)
Searle, A. B., Charlbury, Oxon, England. (440 Glossop Road, Sheffield, England.)
Svec, J. J., 5 N. Huron St., Wheeling, W. Va. (1304 Clinton Ave., Berwyn, Ill.)
Thomas, Robert R., Jr., 333 Page St. E., Flint, Mich. (3025 Forest Place, East St. Louis, Ill.)
Walsh, Edward R., Dickinson Fire & Pressed Brick Co., Dickinson, N. D. (594 Jefferson Ave., Elizabeth, N. J.)
Winburn, H. L., 1602 Swan Drive, Tulsa, Okla. (301 Center St., Little Rock, Ark.)

NOTES AND NEWS

CERAMIC SCHOOL NOTES

New York State School of Clay-Working and Ceramics

Plans for the new Ceramic Building are progressing. President Davis of the University, Dr. Binns of the Ceramic School, and Dr. Wilson of the State Education Department met in Corning with Dr. Sullivan of the Corning Glass Works to discuss suggestions for the glass laboratory which is to be a part of the new equipment. Through the efforts of Dr. Schmidt and Dr. Horner of the State Education Department the plans are being drawn up in the State Architect's office and it is hoped that bids will be let very soon so that excavation may begin early in the spring.

Early in December, a party of Senior engineers with Professor Amberg visited ceramic plants in the vicinity of Corning, New York. These included the Corning Terra Cotta Co., Corning and Steuben Glass Works, and the Hawkes Glass Company. At the Hawkes plant, the processes of engraving and etching were explained by Mr. Hawkes.

A group of films on manufactured abrasives was shown at the last meeting of the Student Branch of the AMERICAN CERAMIC SOCIETY. These were taken at the Carborundum plant and loaned through the courtesy of the Bureau of Mines.

Beta Pi Kappa, the honorary ceramic fraternity, is planning to carry through a survey of the manufacture of brick in the Hudson River Valley during the spring vacation. The plants will then be opened and it is expected that a pamphlet will be compiled from the data collected. Nothing of this sort has been done heretofore and the information will be of considerable value.

Meredith Barton, '32, gave an illustrated lecture on ceramics before a high school audience in Emporium, Pa., early in January. This is one of the first manifestations of a group of projects sponsored by Beta Pi Kappa.

Milton D. Burdick, '30, has recently accepted a position with the Cement Testing Laboratory of the Bureau of Standards in Washington, D. C.

Robert M. Campbell, '23, is now connected with the Trenton Potteries, Inc., of Trenton, N. J.

TABLE II

TOTAL PAGES IN JOURNAL, ABSTRACTS, AND BULLETIN, 1926–1930

Publication	1926	1927	1928[1]	1929[2]	1930[3]	Total
Journal (total pages)	896	1028	934	830	976	4,664
Total number of original papers	(93)	(102)	(95)	(96)	(104)	(486)
Ceramic Abstracts	494	718	1024	1124	1296	4,656
Bulletin	494	388	396	380	354	2,012
Totals	1884	2134	2354	2334	2626	11,332

[1] The entire *Journal* section in June, 1928, was given over to a Standards Report of 203 pages.

[2] The Enamel Bibliography was issued as Part II, May, 1929. This Bibliography contains 385 pages of 8-point type with complete Author and Subject Indexes.

[3] This does not include the Art Division Symposium, published as Part II of the May, 1930, issue. There were 8 original papers and 5 committee reports, a total of 68 pages.

TABLE III

TOTAL NUMBER OF ABSTRACTS PUBLISHED ACCORDING TO SUBJECT CLASSIFICATION (1927–1930)

	1927	1928	1929	1930
Abrasive	45	205	444	463
Art	222	295	495	477
Cement, etc.	349	309	269	462
Enamel	96	154	229	286
Glass	714	775	718	985
H. C. P.	208	264	281	430
Refractories	402	433	589	659
Terra Cotta	32	58	76	85
White Ware	177	258	300	270
Equipment, etc.	186	334	276	628
Kilns, etc.	243	447	365	680
Geology	133	167	231	328
Chemistry, etc.	422	486	505	560
General	330	362	506	767
Total Abstracts	3559	4547	5285	7080
Total No. of Pages	718	1024	1100	1296

TABLE IV

INDEX REFERENCES (AUTHOR AND SUBJECT) 1929–1930

	1929	1930
Journal (author)	121	143
" (subject)	1,447	2,711
Abstract (author)	4,262	5,432
" (subject)	13,105	13,599
Bulletin (author and subject)	518	488
Art Division Symposium		147
List of Ceramic Publications		787
	19,453	23,207

LOCAL SECTION NEWS

Pacific Northwest Section[1]

A joint meeting of the Pacific Northwest Section of the AMERICAN CERAMIC SOCIETY and the North Pacific Section of the American Institute of Mining Engineers was held February 17, at Seattle, Wash. This included a dinner at the University of Washington Commons and the following program at Guggenheim Hall:

[1] Hewitt Wilson, *Secretary*.

"Liquid Gas," by Charles R. Collins, Consulting Engineer.

"Manufactured Gas," by J. S. Holt, General Superintendent, Seattle Gas Co.

These two talks were followed by the five-reel motion picture, "The Manufacture of Refractories," of the Harbison-Walker Refractories Co. A. G. Suydam, Pacific Coast Sales Manager, answered questions and explained a number of interesting phases of the work.

About 45 persons were present at this meeting.

NEW MEMBERS RECEIVED IN FEBRUARY

CORPORATION

Swindell-Dressler Corp., Ralph W. Porter (voter), P. O. Box 1753, Pittsburgh, Pa.

United Clay Mines Corp., Kenneth M. Smith (voter), Oakland and Prospect Sts., Trenton, N. J.

PERSONAL

Raphael F. Alcan, Superintendent, American Encaustic Tiling Co., Maurer, N. J.

J. Carlton Atherton, 2084 Neil Ave., Columbus, Ohio; Assistant Professor, Ceramic Art, Ohio State University.

R. S. Barlow, 23 LaSalle Ave., Trenton, N. J.; Roessler & Hasslacher Chemical Co.

E. J. Bernhard, Assistant Manager, Ceramic Dept., Roessler & Hasslacher Chemical Co., 10 E. 40th St., New York, N. Y.

Arthur John Campbell, Oulton, Stone, Staffs, England; Director, Mintons, Ltd.

Robert M. Curts, Engineer, Technical Division, American Potash & Chemical Corp., 233 Broadway, New York, N. Y.

Probert W. Dager, Champion Porcelain Co., Butler Ave. and Grand Trunk R. R., Detroit, Mich.

Redfield T. Dinwiddie, Manager, Refractories Division, M. W. Kellogg Co., 225 Broadway, New York, N. Y.

R. H. Dufault, Manager, Ceramic Dept., Roessler & Hasslacher Chemical Co., 10 E. 40th St., New York, N. Y.

Raymond W. Dwyer, Manager, Syracuse Pottery, Inc., Syracuse, N. Y.

Theodore Norbert Hubbuch, Engineer, American Potash and Chemical Corp., 233 Broadway, New York, N. Y.

G. W. Jarman, Jr., President, Separations Engineering Corp., 31 Nassau St., New York, N. Y.

George H. King, District Manager, General Refractories Co., 1210 Genesee Bldg., Buffalo, N. Y.

Albert W. Laubengayer, Assistant Professor, Department of Chemistry, Cornell University, Ithaca, N. Y.

Edgar Littlefield, 307 15th Ave., Columbus, Ohio; Assistant Instructor, Ceramic Art Dept., Ohio State University.

Eva C. Moore, 121 Summerhill Ave., Toronto, Ontario, Canada.

Walter Travis Priestley, 3 Pinder View, Lower Wortley, Leeds, Yorkshire, England; Assistant Works Chemist, Farnley Iron Co., Ltd.

John Ries, 512 Columbus Ave., Trenton, N. J.; Superintendent of Plant 5, Trenton Potteries Co., Trenton, N. J.

E. W. Rugh, 431 Winter Ave., New Castle, Pa.; Ceramic Engineer, New Castle Refractories Co.

H. M. Scott, 102 Buckingham Ave., Trenton, N. J.; W. H. Hughes & Co.

Guilio Ellsworth Sievert, 435 Highland, San Mateo, Calif.; Ceramic Engineer, West Coast Porcelain Mfrs.

Robert Wakefield Watkin, 416 College St., Alliance, Ohio; Ceramic Instructor, Sebring High School.

STUDENT

W. Stewart Kuttler, University of Illinois, Urbana, Ill.
Charles L. Lester, North Carolina State College, Raleigh, N. C.
Robert W. Slaughter, University of Illinois, Urbana, Ill.
Howard G. Wilcox, University of Washington, Seattle, Wash.

Membership Workers' Record

CORPORATION		PERSONAL	
R. W. Rowland	1	Arthur E. Baggs	2
Office	1	C. M. Dennis	2
		C. F. Geiger	1
Total	2	James Hamilton	1
		W. B. Kerr	1
		A. Malinovszky	1
		Bernard Moor	1
		G. D. Morris	1
STUDENT		F. H. Riddle	1
		H. Ries	1
A. F. Greaves-Walker	1	V. J. Roehm	1
C. L. Thompson	2	Walter Sheard	1
Hewitt Wilson	1	Geo. Simcoe	1
		Office	7
Total	4		
		Total	22
		Grand Total	28

ROSTER CHANGES IN FEBRUARY

PERSONAL*

Aubrey, Arthur J., Sterling Brick Co., Olean, N. Y. (462 Crandall Ave., Youngstown, Ohio.)
Bates, Charles E., Spotswood, N. J. (Old Bridge, N. J.)
Bennett, Dwight G., Mellon Institute, Pittsburgh, Pa. (Metal & Thermit Corp., Carteret, N. J.)
Blake, A. E., 1511 Dickinson Rd., West Brookline, Pa. (Detroit, Mich.)
Clark, Paul M., Georgia Kaolin Co., Dry Branch, Ga. (261 High St., Macon, Ga.)
Feichter, Harold R., P. O. Box 140, Magnolia, Ohio. (P. O. Box 66, E. Sparta, Ohio.)
Frank, Henry A., 4100 South Alameda St., Los Angeles, Calif.; Eljer Calif. Co. (616 W. 56th St., Los Angeles, Calif.)
Hagar, Donald, 1135 Brighton Blvd., Zanesville, Ohio. (Box 836, Cincinnati, Ohio.)
Hartman, M. L., Room 660, Subway Terminal Bldg., 417 South Hill St., Los Angeles, Calif. (253 S. Maple Drive, Beverly Hills, Calif.)
Hofstetter, Gerald W., Westinghouse Electric and Mfg. Co., Mansfield, Ohio. (1560 N. 4th St., Columbus, Ohio.)
Hutt, Gordon M., Department of Development, Canadian Pacific Railway, Room 40, C. P. R. Office Bldg., Winnipeg, Manitoba, Canada. (Montreal, Quebec.)
Kingloff, J. I., O. Hommel Co., Pittsburgh, Pa. (Chattanooga Stamping & Enameling Co., Chattanooga, Tenn.)

* Addresses within parentheses ( ) represent the old addresses.
The roster changes which are published each month may be checked against the complete Membership Roster which appeared in the July, 1929, issue of the *Bulletin*. Copies of this issue may be obtained from the Secretary's office, price $2.00.

Kirk, H. S., 305 Highland Ave., New Castle, Pa. (47 Berwyn St., Orange, N. J.)
Lawson, Geo. G., 1709 Livingston St., Evanston, Ill. (1218 Forest Ave., Wilmette, Ill.)
McBerty, R. K., 150 W. Frambes Ave., Columbus, Ohio. (Dallas Ave., Tarentum, Pa.)
Mansur, Howard H., Lincoln, Calif. (Taylor, Wash.)
Roessler, H. F., 1140 Martine Ave., Plainfield, N. J. (Perth Amboy, N. J.)
Salisbury, Frank W., N. E. Cor. 16th St. and Sherman Drive, Indianapolis, Ind. (Durant City, Pa.)
Seabright, Edward C., 249–7th St., Martins Ferry, Ohio. (Y. M. C. A., Hamilton, Ohio.)
Shaw, Myril C., Ohio State University Engineering Experiment Station, Roseville, Ohio. (5728 Darlington Rd., Pittsburgh, Pa.)
Simison, Allen L., Glass & Furnace Division, Owens-Illinois Glass Co., Toledo, Ohio. (Berney-Bond Glass Co., Columbus, Ohio.)
Smith, Dorothy James, 17 W. 12th, New York, N. Y. (Edgewood School, Greenwich, Conn.)
Whitmer, J. D., Cambridge Tile Co., P. O. Box 836, Cincinnati, Ohio. (Flint Faience Tile Co., Flint, Mich.)
Wong, Edwin, China General Edison Co., Inc., 140 Robison Rd., Shanghai, China. (2127 Central Ave., Cleveland, Ohio.)

NOTES AND NEWS

CERAMIC SCHOOL NOTES

University of Toronto[1]

A ceramic scholarship has been announced which will amount to $50 per year for 10 years and will be awarded to the ceramic student obtaining the highest scholastic standing in the third year. The first award will be in 1932. This scholarship is donated by the Canadian National Clay Products Association which was influential in having the Ceramic Department started at the University five years ago.

This Association also made arrangements to pay the railway fare of any of the ceramic students attending the Annual Meeting of the AMERICAN CERAMIC SOCIETY in Cleveland. The value of the meeting is recognized and the Association feels that the young men going into the local plants should have the opportunity to attend.

CALENDAR OF MEETINGS

Organization	Date	Place
American Assn. for the Advancement of Science	December 28, 1931 to January 2, 1932	New Orleans, La.
AMERICAN CERAMIC SOCIETY	February 7–13, 1932	Washington, D. C.
American Chemical Society	March 30 to April 3	Indianapolis, Ind.
American Concrete Institute	February 22, 1932	Washington, D. C.
American Electrochemical Society	April 23–25	Birmingham, Ala.
American Foundrymen's Assn.	May 4–7	Chicago, Ill.
American Gas Assn.	October 12–18	Atlantic City, N. J.
American Glassware Mfrs.	July	Atlantic City, N. J.
American Institute of Chemical Engineers	June	Swampscott, Mass.
American Iron and Steel Institute	May 22	New York, N. Y.

[1] R. J. Montgomery.

In addition to these nominations, the following members of the Division placed the name of Sandford S. Cole in nomination for Chairman: Robert F. Ferguson, Don C. Lynn, Robert H. H. Pierce, Norman Stolte, Stephen M. Swain, and George J. Bair.

The Chairman appointed M. E. Holmes and J. Spotts McDowell to be tellers, who reported the following officers elected by ballot for the year 1931, in accordance with the provision for Election of Officers in the By-Laws of the Refractories Division.

Chairman, A. E. R. Westman
Vice-Chairman, R. B. Gilmore
Secretary-Treasurer, Dorothy A. Texter
Nominating Committee {C. F. Geiger, L. J. Trostel

SUPPLEMENTAL REPORT OF COMMITTEE ON GEOLOGICAL SURVEYS[1]

The Committee on Geological Surveys had charge of the general meeting at the Cleveland Meeting Monday afternoon, February 23, 1931.

Five papers of a geological character were scheduled and presented as follows:

"Ceramic Shales of Georgia," by R. W. Smith, Asst. State Geologist of Georgia, presented by A. V. Henry.

"Petrographic and Mineralogical Study of the Underclays of Illinois Coal," by Victor T. Allen, St. Louis University.

"Some Ceramic Resources of Virginia," by Arthur Bevan, State Geologist of Virginia (read by title only).

"Adhesion, Tension, and Effect of Electrolytes on Clays," by George Whitlock, Dept. of Geology, University of Indiana (read by title only).

"Geology of Some Oklahoma Clays," by Leonard Sheerar, Agricultural and Mechanical College, Stillwater, Okla. (read by title only).

Donald Ross, Findlay Clay Products Co., Washington, Pa., suggested that a tabulation of the geological formations in which refractory clays are found in different parts of the country would be of much assistance to the ceramist, especially for preparation of papers on any particular operation.

The Chairman explained the aims and work of the Committee as interpreted by the Committee members, as collecting information about the work that the State and Federal Surveys are doing of particular interest to the ceramic industry and lending encouragement and help whenever possible to these agencies. The advantage to be gained by making use of the state surveys when searching for new sources of ceramic materials was also pointed out.

Committee on Geological Surveys,
W. M. WEIGEL, *Chairman*

NEW MEMBERS RECEIVED IN MARCH

CORPORATION

Benjamin Electric, Ltd., Brantwood Works, Tariff Rd., Tottenham, N. 17, England.

PERSONAL

William Eitel, Faradayweg 16, Berlin-Dahlem, Germany; Director, Silikate Institute of the Kaiser Wilhelm Gesellschaft.

[1] For Report of Committee on Geological Surveys for 1930 see *Bull. Amer. Ceram. Soc.*, 10 [2], 35 (1931).

Arthur L. Koch, Box 573 K, R. R. 1, Rivera, Calif.; Chemist, Pacific Clay Products.
Frank W. Preston, Standard Mfg. Co., Butler, Pa.
Herbert F. Royal, 1047 Madison Ave., Birmingham, Mich.; Chief Chemist, Champion Porcelain Co.
W. C. Rueckel, Ohio State Univ., Engineering Experiment Station, Roseville, Ohio.
John Salt, Villa Ludwig, Hemixem-lez-Anvers, Antwerp, Belgium; General Manager, Manufactures Céramiques d'Hemixem.

STUDENT

Franz Görner, Fr. Wiesner, Eisenstein (Bohemia), Czechoslovakia.

Membership Workers' Record

CORPORATION		PERSONAL	
Office	1	F. A. McCann	1
		C. W. Parmelee	1
STUDENT		F. H. Riddle	1
Office	1	Office	3
		Total	6
		Grand Total	8

ROSTER CHANGES IN MARCH

CORPORATION*

Moore & Munger, Melville Marks (voter), 33 Rector St., New York, N. Y. (5 Broadway.)

PERSONAL*

Berkman, A. S., Nevski Prospect 21, c/o Soiuzsteklofarfor, Leningrad, U. S. S. R. (5 Park Place, New York, N. Y.)
Brebner, F. D., Leonard Refrigerator Co., Grand Rapids, Mich. (Membership transferred from A. D. McCaughna.)
Davis, H. S., c/o Laclede-Christy Co., Box 202, Rochester, Pa. (5078 Washington Ave., St. Louis, Mo.)
Hughes, Tom E., Ambassador Apts., Pittsburgh, Pa. (1251 Commonwealth Ave., Boston, Mass.)
Kovacs, John, Mountainside Art Pottery, Mountain Ave., Mountainside, N. J. (21 Russell St., Vauxhall, N. J.)
Lee, P. William, American Terra Cotta & Ceramic Co., Crystal Lake, Ill. (6966 Hilldale Ave., Chicago, Ill.)
Meyer, Herbert T., c/o L. J. Meyer, 247 N. Indiana Ave., Kankakee, Ill. (Porcelain Enamel & Mfg. Co., Baltimore, Md.)
Reinecker, F. O., Wolff Co., 2057 West Fulton St., Chicago, Ill. (Membership transferred from W. T. Mahoney.)
Slaven, S. J., 590 Rogers Ave., Brooklyn, N. Y. (The Abrasive Co., Philadelphia, Pa.)
Stevens, Frank J., 414 Prospect St., Nutley, N. J. (1606 Avery St., Parkersburg, W. Va.)
Tefft, T. D., Claycraft Mining & Brick Co., Columbus, Ohio. (813 N. Chicago Ave., South Milwaukee, Wis.)
Waltman, William D., 601 Edison Bldg., 5th at Grand, Los Angeles, Calif. (551 Fifth Ave., New York, N. Y.)
Wassman, John R., 511 North Pearl St., Joplin, Mo. (4608 Dover St., Chicago, Ill.)
Windsor, B. R., Colchester, Ill. (Old Virginia Brick Co., Salem, Va.)
Zehm, Robert C., The Stevenson Co., Wellsville, Ohio. (45 W. Dunedin Rd., Columbus, Ohio.)

* Addresses within the parentheses ( ) represent the old address.

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willing to be continued as members on a deferred payment account. The increase from $10 to $12.50 personal dues was made before the Board knew of the possibility of a business depression, but this raise in dues has caused neither loss of members nor increase in amount of money received from personal dues.

If the SOCIETY continues its activities on the 1930 scale, it will have to either use $8693.43 of its reserve or borrow this sum of money from the next year's prepaid dues and subscriptions. We have for several years now been encroaching upon the next year's income until in 1930 we used $8321.23 of the 1931 money. In this way we have kept intact the reserve, amounting to $10,719.84.

If we cannot find a Carnegie or a Dr. Ambrose Swasey who will give us $8321.23 to repay the 1931 money which was used in 1930, we will have to go strongly after corporation members. Even this would give a deficit if we continued this year at the same scale on which we operated last year.

There is no reason for that loss of $6000 in advertising income except such as is chargeable to lack of business on the part of materials and equipment suppliers. The SOCIETY would be far better off if it did not have to depend on advertising income to finance its publications partially. The personal and corporation membership dues will either have to be gradually increased, the number of members will have to be greatly increased, or an endowment of about $400,000 provided if we are to cease our efforts to secure advertising. Our advertising could be increased if we engaged in the same sort of personal solicitation as is practised by the privately-owned trade papers, or if our members would assume this as one of their own responsibilities.

Now as to the arguments as to why corporations should pay larger dues than personal members, I would say that in general, ceramic manufacturing in clay, glass, and vitreous enamels would be far more backward, far less able to meet competition of substitute products, and far less able to meet the foreign competition, if it had not been for the AMERICAN CERAMIC SOCIETY. The AMERICAN CERAMIC SOCIETY is directly responsible for the creation of the ceramic departments in the federal bureaus, and is directly responsible for the spread of ceramic education in the universities.

If you would compare the privately-owned trade papers of today with those of thirty years ago, you would see reflected in them a great advance in science and technology.

In spite of the struggle for existence on the part of the structural clay products producers and of the potters, they are more than holding their own, and are the beneficiaries of a greatly increased amount of indirect publicity from featured articles in all sorts of national magazines. This widespread interest in ceramic products as reflected in the national magazines, as compared with thirty years ago, indicates a beneficial influence of the activities of the trade associations and of this SOCIETY, the benefits of which accrue directly to the manufacturing corporations.

It would hardly seem necessary in these days to attempt to persuade a business executive that research, technical manufacturing control, studies of process economies, etc., are of vital importance to the manufacturing group as a whole, and to each individual corporation in particular.

It would seem asinine to make the effort to convince business executives that there is value in exchange of research experiences and results, such as this SOCIETY has through its meetings and publications, and that there are benefits accruing to each manufacturing concern from the abstracts of the world's literature which this SOCIETY is making. It would seem that we would not have to present the claim that through our abstracts a manufacturer can keep in touch and abreast with the progress made in all of the industrial nations in fundamental sciences and in the applications of these sciences to his particular ceramic problem.

This is a letter, and I have already written much more than is allowable in a letter, but I believe I have given you leads which should set your productive mind to formulating arguments and benefits which accrue from corporations subscribing to the support of this SOCIETY in excess of personal dues.

Yours very cordially,
ROSS C. PURDY, *General Secretary*

IV. Circular Letters on Membership

Mr. F. C. Flint,
Washington, Pa.
My dear Francis:

Yours May 2

This was the way the SOCIETY was built up to its present strength, and it is the way every organization must proceed if it is to obtain a more universal support.

We must get over or around the argument that companies having personal representatives should not pay corporation membership dues. I tried to argue this with S. S. Cole, a copy of which went to you.

It was the conviction several years ago, and I see no reason for a change, that ceramic corporations should underwrite this SOCIETY. The first and foremost reason is that it is to the corporation's benefit that this SOCIETY shall serve just as largely and as effectively as is possible in the reporting of original investigations and observations, and in abstracting the world's ceramic literature, the only limit being the amount of original research and observations and the extent of the literature available for abstracting.

In 1918 both of these were lower in amount and, on the average, lower in quality than that which the SOCIETY has available for publication in 1931. The personal membership support has not grown in proportion to the growth of the research reports submitted and the ceramic abstracts available. If the corporations are to receive benefits increasing in proportion to the increasing research and abstracts, there must be a larger number of corporation members, and corporations must support the SOCIETY as corporation members and at the same time allow their employees to continue as personal members.

The second reason for corporations paying $25.00 annually was, and still is, that it is to their interest, as well as to the interest of the individual members, that the burden on the personal members shall be as light as possible so that the individuals, most of whom are accumulating competency as well as families, can invest a reasonably proportionate share in the many other activities in which they must have interest if they are to be well-rounded, useful citizens and employees. The young fellows must have something else than a meager salary and a growing family; they must take their place in social, community, and political affairs.

To permit this SOCIETY to function for the ceramic corporations, as well as for the ceramic individuals, to the fullest capacity, we should have 1000 corporation members, even though we should have as personal members every ceramic person that could or should be a member.

Yours very cordially,
ROSS C. PURDY, *General Secretary*

Letter Sent to Unpaid Members

HARD TIMES?

You bet they are; but they could be harder!

Would you be better off if you had chosen an industrial career other than ceramics? You know reasonably well that you would not.

You know that the increasingly rapid industrial progress of the past decades has been due to science discoveries and their industrial applications, and that the acceleration in knowledge application has most largely been the result of technical societies like our own.

How much harder would be the times for you if our SOCIETY's members were not collaborating in gathering, publishing, and abstracting ceramic information? You can very well guess.

Can you afford to let down on this job? Reason this out for yourself, and then insure your future. The 1931 premium duebill for this insurance is attached.

We are holding your Journals awaiting your order.

Yours very cordially,
ROSS C. PURDY, *General Secretary*

P. S. How about your getting more personal and corporation members? This will pay you in terms of more ceramic information made available.

NEW MEMBERS RECEIVED IN APRIL

CORPORATION

Moore Enameling & Mfg. Co., Walter B. Moore (voter), W. Lafayette, Ohio.

PERSONAL

Charles W. Bowden, Director of Sales, Pennsylvania Salt Mfg. Co., Widener Bldg., Philadelphia, Pa.

George S. Eaton, Secretary-Treasurer, American Face Brick Assn., 130 N. Wells St., Chicago, Ill.
David H. Goodwillie, Vice-President in charge of Manufacturing and Engineering, Libbey-Owens-Ford Glass Co., Nicholas Bldg., Toledo, Ohio.
Carl F. Kneisel, General Manager, Sheridan Press Brick & Tile Co., P. O. Box 732, Sheridan, Wyoming.
John Henry Lumley, Ceramic Engineer, Northwestern Terra Cotta Co., Denver, Colo.
Walter B. Moore, President and General Manager, Moore Enameling & Mfg. Co., W. Lafayette, Ohio.

STUDENT

Ben K. Miller, Missouri School of Mines and Metallurgy, Rolla, Mo.
Allen J. Reid, Missouri School of Mines and Metallurgy, Rolla, Mo.

Membership Workers' Record

CORPORATION		PERSONAL	
Royal W. Taylor	1	Geo. P. Fackt	1
STUDENT		J. E. Hutchinson	1
C. M. Dodd	1	Royal W. Taylor	1
M. E. Holmes	1	Office	3
Total	2	Total	6
		Grand Total	9

MEMBERS ATTENTION!

(1) You are drafted for duty:
- (*a*) To search this list of members whose addresses are unknown for the purpose of telling the SOCIETY's executive office the present addresses of those whom you know.
- (*b*) To get members.
- (*c*) To study the financial status of your SOCIETY as given on pp. 161–163.
- (*d*) To ask those from whom you make purchases to advertise in your *Journal*.

Unknown Addresses of Members

Abney, Charles L., Doctors Inlet, Florida.
Anderson, M. E., Wellsville Fire Brick Co., Wellsville, Mo.
Andrews, B. S., 1103 W. Illinois St., Urbana, Ill.
Arthur, Edwin P., 2074 Santa Rosa Ave., Pasadena, Calif.

Baranowski, William G., 2721 N. Mason Ave., Chicago, Ill.
Bidleman, W. J., Chicago Fire Brick Co., 1321 Conway Bldg., Chicago, Ill.
Blakeslee, H. G., 16 Woodcrest Ave., Atlanta, Ga.
Bloor, Colin A., 110½ E. Main St., Peru, Ind.
Boving, Paul C., Hynes, Calif.
Boyd, James M., 16 Melbourne Rd., Norwalk, Conn.
Brauer, Hildegard, 13915 Kinsman Rd., Cleveland, Ohio.
Busbey, Robert R., The Robinson Clay Products Co., Canton, Ohio.
Butler, E. L., 111 W. Washington St., Chicago, Ill.

Callaghan, J. P., Teaque Hotel, Montgomery, Ala.
Cambridge Sanitary Mfg. Co., Attn. J. W. Whittaker, Cambridge, Ohio.
Cameron, Walter F., Delavan, Ill.
Carpenter, Cranston H., 403 W. 4th St., Mansfield, Ohio.
Central Refractory Trust, Most 18, Kusnetzky, Moscow, U.S.S.R.
Coats, G. Roger, 610 Wesley Bldg., Philadelphia, Pa.
Coffin, Leon B., P. O. Box 920, Pittsfield, Mass.
Corty, Charles J., 507 East A St., Belleville, Ill.
Cushing, Ellen W., 138 Marlboro St., Boston, Mass.

Dallons, Oscar W., 943½ W. 80th St., Los Angeles, Calif.
Davison, Thomas R., Minerva, Ohio.

Decker, Lewis T., 816 Carteret Ave., Trenton, N. J.
Di Dio, Anthony, 727 23rd St., Richmond, Calif.
Dolley, Charles S., Keramoid Mfg. Co., Fort Madison, Iowa.
Doughty, I. N., 223 Kentucky Ave., Danville, Ill.
Drever, Horace, 1015 Chestnut, Room 705, Philadelphia, Pa.
Drummond, Finlay M., Jonathan Club, Los Angeles, Calif.

Eack, Ernest G., 1421 Arch St., Room 524, Philadelphia, Pa.

Fitzpatrick, John, 572 Terrace Ave., Clixton, Cincinnati, Ohio.
Francais, P. P., Karr Range Co., Belleville, Ill.
Froeberg, Alexis, Glassworks Drushnaya Gorka, Leningrad, U.S.S.R.

Gallagher, Hugh S., 307 Wabash Bldg., Pittsburgh, Pa.
Glocker, Gustave, National Tile & Porcelain Co., Greensburg, Pa.
Goodman, A. H., Box 915, Pittsburgh, Pa.
Gould, Jack U., 1444 Lincoln Place, Brooklyn, N. Y.
Greenwood, John L., Lehigh Sewer Pipe & Tile Co., Lehigh, Iowa.

Hahn, Carl A., Parker-Russel Mining & Mfg. Co., St. Louis, Mo.
Hall, Edwin J., 212 N. 2nd St., Jeanette, Pa.
Hamilton, W. S., Celite Products Co., Lompoc, Calif.
Hanson, Edward S., 200 N. 7th St., Newark, N. J.
Harvey, George R., 448 Barton St., Hamilton, Ont., Canada.
Harvey, Ives L., New Hope Brick Co., New Hope, Pa.
Hashimoto, Yuzo, c/o M. Shofu, Far East Trading Co., 32 Union Square, New York, N. Y.
Hernandeth, E. M., 4419 Victorine St., Los Angeles, Calif.
Hersey, George F., American Resistor Corp., Milwaukee, Wis.
Humpel, *Frank*, 34 E. 39th St., *Bayonne, N. J.*

Irish, William E., Erie City Iron Works, Erie, Pa.

Jacopson, W. S., Trust Chimougol, Charkow Rimarskaia 22, U.S.S.R.
Jones, Edward J., 519 Lyons St., Hammond, Ind.

Kiger, H. G., Kiger Supply Co., 298 E. Grand Blvd., Detroit, Mich.
King, Frank A., Vitrolite Co., Parkersburg, W. Va.
Kiwgillo, Paul E., Miasnitzkaia 8, Moscow, U.S.S.R.
Korbanovsky, Rostislav S., 32 Piatakov St., Kiev, U.S.S.R.
Kramar, Alex J., Ukrainian Silicate Trust, Poltawskaya 8, Kharkoff, Ukrainia, U.S.S.R.
Krassnikoff, N. F., Miasnitzkaia 8, Moscow, U.S.S.R.

Landers, William H., St. Louis Lithopone Co., Collinsville, Ill.
Larkins, Samuel B., National China Co., Salineville, Ohio.
Lindsey, Gordon S., Abendroth Bros., Port Chester, N. Y.
Longenecker, Levi S., 409 Bessemer Bldg., Pittsburgh, Pa.

McCool, Daisy D., Stillwater, Okla.
MacGee, Alfred E., 308 Russmer Ave., Charleston, W. Va.
McGrath, Leigh J., 1540 S. Walnut St., Casper, Wyo.
Marek, Jaroslav J., 2440 S. 50th Ave., Cicero, Ill.
Martin, Ralph H., 7135 S. Seville St., Huntington Park, Calif.
Mellott, Willis C., 7102 Mt. Vernon St., Pittsburgh, Pa.
Monks, Rubert, 128 Fraley St., Kane, Pa.

Oettinger, Frank E., Box 672, Lompoc, Calif.
Owen, C. E., Box 108, E. Liverpool, Ohio.
Owens, Francis T., 504 Curten St., Osceola Mills, Pa.

Palmer, Willard E., 1927 Waldeck Ave., Columbus, Ohio.
Paulsen, John A., Thos. Moulding Brick Co., 151–169 W. Wacker Drive, Chicago, Ill.
Pearson, J. Donald, 325 N. Washington, Ottumwa, Iowa.
Pelletier, W. H., Ferro Enameling Co., 4150 E. 56th St., Cleveland, Ohio.

LOCAL SECTION NEWS

Baltimore-Washington Section[1]

The Baltimore-Washington Section held a monthly meeting on Friday, May 8, 1931, at 6:30 P.M. at the Tilden Gardens Club Building, Washington, D. C.

The speakers and their subjects were:

(1) "Liquid Immiscibility as Exemplified by Borate and Silicate Melts," by Louis Navias, General Electric Co., Schenectady, N. Y.
(2) "Use of X-Ray in Studying Ceramic Materials," by Herbert Insley, Bureau of Standards, Washington, D. C.

These subjects were of interest to the members, as they dealt with rather recent developments in the ceramic field and will be used more extensively in the future.

The effects of immiscibility are more extensive than is ordinarily realized and Dr. Navias has spent much time in the study of this phase of ceramics.

We have all heard of the many fields in which the X-ray has been used and what it has helped to accomplish, but very little use has been made of it in the ceramic field. Dr. Insley has been doing work along this line.

These subjects are not merely dry abstracts, but are interesting and have a direct bearing on the study and proper understanding of ceramic materials. Those who have heard them discussed recommend them very highly.

Pittsburgh Section[2]

About sixty members of the Pittsburgh Section of the AMERICAN CERAMIC SOCIETY were guests on May 7 of the East Liverpool Ceramic Engineer's club. The guests were taken on a tour of inspection of the Hall China and the Patterson Foundry & Machine Companies' plants.

Following the tour of the plants, the guests were entertained at dinner at the Travelers' hotel, where addresses were made by Attorney Walter B. Hill, Ross C. Purdy, general secretary of the AMERICAN CERAMIC SOCIETY, and A. V. Bleininger, research engineer of the Homer Laughlin China Co. L. G. Tait, instructor of the local ceramic school, was toastmaster and H. B. DuBois was chairman of the committee.

Early History of Pottery in East Liverpool

Walter B. Hill, dealing with the subject "Why Pottery in East Liverpool?" traced briefly the early history of the ceramic city, recalling the familiar names of Kuntz, Baggott, Bloor, Brunt, Smith, and Bennett, pioneer families in the development of the pottery industry. He related many amusing incidents particularly in the life of James Bennett and his associates.

Business Outlook for 1933

Ross C. Purdy, the second speaker, referred in humorous and serious vein to the early history of East Liverpool and its pottery development with which he is quite familiar.

Covering his subject "Chicago in 1933," Mr. Purdy said that the condition of the ceramic industry in this country is such that it is difficult to secure the needed capital to depict properly the progress of the industry during the last century, and it is of prime importance that this be done as other countries of the world will carry out such a program, and, if America is to advance in this important work, as it no doubt will, this is a necessary step in its progress. He expressed faith in the return to normal business conditions in 1933, the year of the World's Fair in Chicago, and emphasized among other things the importance of bringing to the attention of the American people the fact that ceramic products made in this country are as good and in many instances better than the foreign products. He also urged better marketing of American ware.

[1] Edwin B. Filbert, *Secretary-Treasurer.*
[2] *Potters' Herald*, May 14, 1931.

Importance of Vision in Industry

Dr. A. V. Bleininger, citing the necessity of vision in industry, said that change is ever present. We cannot remain stationary, either we advance or recede. Civilization is constantly changing and it is the business of industry to see in which direction we are headed. He pointed out that changes are coming at an alarming rate through the introduction of new methods and they are presenting a complicated mathematical equation which we must solve. "The thinking," said the speaker, "is being done by a comparatively small group."

He also stated that industry is engaged in a great conflict in which there is corporation against corporation and county against county in an effort to reduce cost and secure the markets.

Dr. Bleininger traced briefly the evolution of the glass, enamel, and pottery industries showing how competition in each is calling for their best effort in order to survive in this conflict and to meet the arch enemy, foreign competition. He also touched upon the brick, terra cotta, and various other competing industries.

He closed with a personal talk to the technical group emphasizing very strongly the importance of each of the following topics: Study of Raw Materials, Fuel Economy, Control of Heat, Close Coöperation with Plant Executives, Application of Applied Art, Hard and Constant Research, Control of Quality Products, Carrying on of Fundamental Research, Informal Information for Executives, and Development of all Possible Vision and a Spirit of Philosophy.

Each guest was presented with a souvenir ash tray made of native clay in various colored mat glazes by the students in the local ceramic school. Besides the club members and Pittsburgh visitors, there were present representatives of the National Brotherhood of Operative Potters and plant executives from East Liverpool and surrounding towns.

NEW MEMBERS RECEIVED IN MAY

CORPORATION

Amsler-Morton Co., Inc., P. L. Geer (voter), 720 Fulton Bldg., Pittsburgh, Pa.
Cambria Clay Products Co., S. P. Reitz (voter), Blackfork, Ohio.
North State Feldspar Corp., W. F. Deneen (voter), Micaville, N. C.

PERSONAL

Wilfrid George Ball, "Meadowcroft," Weston Coyney, Stoke-on-Trent, England. Research Chemist, Blythe Colour Works.
George Delangre, 48 Boulevard Froissart, Valenciennes, Nord, France.
Arthur E. Eaton, President, Mineral Wells Clay Products Co., Box 92, Mineral Wells, Texas.
N. J. Haley, Tata Iron & Steel Co., Ltd., Jamshedpur, India.
Sidney C. Horn, Sales Manager, Wilson-Maculen Co., Inc., 383 Concord Ave., New York, N. Y.
J. A. Murray, Chief Chemist, Warner Company, 1616 Walnut St., Philadelphia, Pa.
J. M. Powell, President, Indiana Drain Tile Co., Brooklyn, Ind.

STUDENT

James H. Ammerman, Pennsylvania State College, State College, Pa.
Glenn G. Bernard, Ohio State Univ., Columbus, Ohio.
Stanley J. Tompach, Missouri School of Mines and Metallurgy, Rolla, Mo.

Membership Workers' Record

Corporation		Personal	
F. C. Flint	1	Louis Douin	1
Office	2	Office	6
Total	3	Total	7
		Grand Total	13

Student	
G. J. Bair	1
C. M. Dodd	1
Office	1
Total	3

ROSTER CHANGES IN MAY

Personal*

Burchfiel, B. M., Gladding, McBean & Co., Alberhill, Calif. (2901 Los Feliz Blvd., Los Angeles, Calif.)

Burr, Robert B., 15920 Clifton Blvd., Lakewood, Cleveland, Ohio. (Columbus National Bank, Columbus, Ga.)

Butler, Matthew W., 692 East 115th St., Cleveland, Ohio. (740 Oak St., Cincinnati, Ohio.)

Christensen, John B., Jr., 345 West 90th St., Los Angeles, Calif. (228 South J. St., Lompoc, Calif.)

Cohn, Willi M., The Ambassador, 1737 Cambridge St., Cambridge, Mass.; Arthur D. Little, Inc. (Berlin-Charlottenburg 2, Germany.)

De Solorzano, Tomas O., Calle de Alberto Bosch No. 9, Madrid, Spain. (Apartado de Correos No. 78, Gijon, Spain.)

Eddy, Allerton, 514 S. Main St., Middletown, Ohio. (33 W. Washington St., Newman, Ga.)

Ellis-Anwyl, Robert H., 22 W. Falls St., New Castle, Pa. (Box 67, East Canton, Ohio.)

Emley, William S., III, Farrell Arms Plaza, Washington, N. J. (103 S. Cornwall Ave., Ventnor City, N. J.)

Geller, R. F., 306 W. Thornapple, Chevy Chase, Md. (5425 Connecticut Ave., Washington, D. C.)

Greene, Charles F., 102 Wood St. West, Flint, Mich. (2006 Warlick Place N. E., Kirkwood, Atlanta, Ga.

Greene, Kenneth F., Gordon Art Tile Co., Bordentown, N. J. (Triteleon Lodge, 502 George St., New Brunswick, N. J.)

Hardy, R. G., 133 Maple Heights, New Lexington, Ohio. (204 Ceramics Bldg., Urbana, Ill.)

Helser, Perry D., General Ceramics Co., 71 West 35th St., New York, N. Y. (Eljer Co., Ford City, Pa.)

Herron, Henry R., Harbison-Walker Refractories Co., Vandalia, Mo. (K. A. Fraternity House, Rolla, Mo.)

Hofstetter, Gerald W., Seeger Refrigerator Co., St. Paul, Minn. (Westinghouse Electric & Mfg. Co., Mansfield, Ohio.)

Howell, Harriet, 2452 Charny Road, University Heights, South Euclid, Ohio. (3551 Winchell Rd., Shaker Heights, Cleveland, Ohio.)

Krieg, William H., 1219 W. Bancroft, Toledo, Ohio. (530 Riverside Drive, Kohler, Wis.)

Kuechler, A. H., Cloverport, Ky. (Wellsville, Mo.)

Long, R. N., 108 Moull St., Newark, Ohio. (Red Wing Union Stoneware Co., Red Wing, Minn.)

* Addresses within the parentheses ( ) represent the old address.

These roster changes which appear each month may be checked against the complete Membership Roster which was published in the July, 1929, issue of the *Bulletin*. Copies of this issue may be obtained from the Secretary's office, price $2.00.

Luks, Dan, 12 Carroll St., Trenton, N. J. (Membership transferred from Herbert Sinclair.)

Matthews, Samuel, Dominion Fire Brick and Clay Products, Ltd., Claybank, Saskatchewan, Canada. (Univ. of Saskatchewan, Saskatchewan, Canada.)

Moore, H. W., 326 Chestnut St., Moorestown, N. J. (4229 Decatur St., Holmesburg, Philadelphia, Pa.)

Nagle, J. A., 30 Acton Rd., Columbus, Ohio. (Carling Tile Co., Macon, Ga.)

Oesterle, Albert, 4635 E. 52nd Drive, Los Angeles, Calif. (Maywood, Calif.)

Ogden, Ellsworth P., Freyn Engineering Co., c/o Kuznetskstroy, Kuznetsk, Siberia, U.S.S.R. (1957 Chelsea Road, Columbus, Ohio.)

Peters, Bernard C., Danbury, Iowa. (157 Hyland Ave., Ames, Iowa.)

Richardson, Gordon B., Box 999, Livermore, Calif; W. S. Dickey Clay Mfg. Co. (Gladding, McBean & Co., Alberhill, Calif.)

Roth, H. A., 3305 W. Forest Home Ave., Milwaukee, Wis.; Rundle Mfg. Co. (38th and River Rd., Camden, N. J.)

Schaeffer, J. A., Eagle-Picher Lead Co., Jopkin, Mo. (305 St. Clair Ave., E. St. Louis, Ill.)

Tucker, Gus M., Indianapolis Terra Cotta Co., Olney and Roosevelt Sts., Indianapolis, Ind. (P. O. Box 155, Jackson Heights, N. Y.)

Watts, H. L., 27 Holton Ave., S., Hamilton, Canada. (111 Spadina Rd., Toronto 5, Canada.)

Williams, George A., 450 Westminster Ave., Elizabeth, N. J. (Piffard, N. Y.)

Wyer, Neal, 339 W. 9th Ave., Columbus, Ohio. (329 Edgewood St., North Canton, Ohio.)

Zoller, M. M., Eagle-Picher Lead Co., Temple Bar Bldg., Cincinnati, Ohio. (241 Church Road, Winnetka, Ill.)

NOTES AND NEWS

DR. CHARLES FERGUS BINNS

Dr. Binns has reached that age on the attainment of which the New York State laws require that teachers shall retire. Dr. Binns has earned his retirement on pension, and continuance in the academic life at Alfred University in an emeritus relation.

Dr. Binns is not aged; his mind is alert and his interests are broad. Through the many years of continuous teaching at Alfred and of co-laboring with his fellow ceramists nationally Dr. Binns has been increasing in productiveness. His leadership and helpful influence will continue.

It has been his good fortune to break ground for the three ceramic buildings on the Alfred University campus. He lifted the first spade of dirt this June for the foundation of a building larger and more suitable for Alfred's growing school of ceramics.

In honor of Dr. Binns, the American Ceramic Society delegated Edward Orton, B. E. Salisbury, Karl Langenbeck, Albert V. Bleininger, and William Cannon to attend the Alfred commencement convocation.

MORE HONORS TO EDWARD ORTON, JR.

Doctor of Laws, L.L.D., was conferred on General Orton by New York State College of Ceramics, Alfred University. This was in recognition of his accomplishments in metallurgy, in geology, in ceramics, in military, in civic government, in charities, and in literature. He received the honorary degree of Doctor of Science from Rutgers University a few years ago.

As founder of the world's first college of ceramic engineering; as the one delegated to organize the American Ceramic Society; as the secretary of this Society for the first twenty years; as an effective army officer (D.S.M.); as a practical geologist, our Edward Orton is the recipient of fellow memberships, honorary memberships, degrees, and

1st Vice-President: W. J. Westphalen, Vice-President and General Manager, Laclede-Christy Clay Products Co., St. Louis, Mo.
2nd Vice-President: A. P. Taylor, President, The Chas. Taylor Sons Co., Cincinnati, Ohio
Treasurer: C. C. Edmunds, Treasurer, McLain Fire Brick Co., Pittsburgh, Pa.
Secretary: Dorothy A. Texter, 2218 Oliver Bldg., Pittsburgh, Pa.

DIRECTORS

Geo. A. Balz, President, Seaboard Refractories Co., Perth Amboy, N. J.
J. E. Lewis, President, Harbison-Walker Refractories Co., Pittsburgh, Pa.
John R. Sproul, President, General Refractories Co., Philadelphia, Pa.
A. P. Green, President, A. P. Green Fire Brick Co., Mexico, Mo.
J. D. Ramsay, President, North American Refractories Co., Cleveland, Ohio
H. L. Tredennick, President, Haws Refractories Co., Johnstown, Pa.
J. H. Cavender, Vice-President and Sales Manager, North American Refractories Co., Cleveland, Ohio
A. P. Taylor, President, The Chas. Taylor Sons Co., Cincinnati, Ohio
S. M. Kier, Vice-President, General Refractories Co., Salina, Pa.

LOCAL SECTION NEWS

California Section[1]

On Monday evening, June 8, the California Section of the AMERICAN CERAMIC SOCIETY held a barbecue at the rustic lodge of L. H. Wilson of the Batchelder-Wilson Co. The staff of the Batchelder-Wilson Co. acted as hosts for the evening.

NECROLOGY

Rufus H. King

Word has been received of the sudden death of Rufus H. King of New York City on April 1, 1931. His death was the result of injuries received when he was struck by an automobile.

Mr. King had been associated with the Robeson Process Corporation of New York City since 1912. He was a graduate of Yale University and served in both the Spanish-American and the World wars.

Mr. King became a member of the AMERICAN CERAMIC SOCIETY in 1926 and his death will be keenly felt by his many friends in the SOCIETY.

William Angus McIntyre

The death of Captain W. A. McIntyre occurred on May 21, 1931, in England, after a brief illness. Captain McIntyre, who was 43 years of age at the time of his death, was graduated at the Royal College of Science with the degrees of B.Sc. and A.R.C.Sc. in 1915.

He was known to many in the clay industries and made noteworthy contributions to the investigation of clay products, combining a sound scientific knowledge with full realization of the practical aspects of the problems with which he was called upon to deal. He was a frequent contributor to the English ceramic journals and trade press.

[1] John S. Lathrop, *Secretary*.

Otto Metzner

The death of Otto Metzner, superintendent of Rookwood Pottery for twenty-six years, occurred on June 24, 1931. He was born in Indianapolis, Ind., in 1866. Both Mr. Metzner and his father, Adolph Metzner, were pioneers in the pottery and ceramic industries of this country and became associated at Hamilton, Ohio, in what was known as the Hamilton Tile Works. In 1895, this business was converted into a pottery, where Mr. Metzner held a position as ceramist and superintendent until 1899. He then spent six years at Roseville, Ohio, where he held the same position with McCoy Pottery.



OTTO METZNER

Twenty-six years ago Mr. Metzner became superintendent of Rookwood Pottery, Cincinnati, Ohio, and held this position until his death. His influence is reflected in everything connected with Rookwood; his many years of practical experience, blended with a keen mind and a wonderful personality, made him capable and loved by all who knew him. He often accomplished the seemingly impossible with almost startling ease and quickness. His death is a great loss to the pottery and facience industries, but he built well and the influence of his work will aid those who carry on.

Mr. Metzner had been a member of the AMERICAN CERAMIC SOCIETY since 1906, and was a quiet but faithful worker, always interested in the development of the SOCIETY and its promotion of ceramic interests.

NEW MEMBERS FOR JUNE

PERSONAL

Kende Eleőd, Chateau Verthamont, Par Isle, Hte. Vienne, France.
Joseph O'Connell, Melbourne, Australia.
Kohei Ohishi, Nippon Sheet Glass Co., Ltd., Sumitomo Bldg., Kitahama, Osaka, Japan.
Francisco Sangra, 35 Carretera de Port, Barcelona, Spain.

Membership Workers' Record

The Membership Workers' Record for June is as follows: Office, 4.

ROSTER CHANGES FOR JUNE

PERSONAL*

Alexander, H. W., 215 Salem Ave., Apartment 19, Dayton, Ohio. (204 Ceramics Bldg., Urbana, Ill.)
Atkins, Kenith D., Martinsville, Ill. (502 E. John St., Champaign, Ill.)
Dunn, F. B., Monroe St., Conneaut, Ohio. (Empire Bldg., Pittsburgh, Pa.)

* Addresses within the parentheses ( ) represent the old address.

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Edwards, F. Moorland, Robinson Clay Products Co., Mogadore, Ohio. (37 W. Lane Ave., Columbus, Ohio)
Ellis-Anwyl, Robert H., 580 E. Town St., Columbus, Ohio. (22 W. Falls St., New Castle, Pa.)
Fulcher, Gordon S., Administration Bldg., World's Fair, Chicago, Ill. (Corning Glass Works, Corning, N. Y.)
Holz, H. Paul, Philadelphia Electric Co., Philadelphia, Pa. (Membership transferred from Jay O. Achenbach)
Jacobs, W. M., 550 N. McKean Ave., Kittanning, Pa. (Charleroi, Pa.)
Johnson, Gerald L., Sioux City, Iowa. (142 Gray Ave., Ames, Iowa)
Keller, W. D., North Kansas City, Mo. (604 S. Clark St., Mexico, Mo.)
Lyon, Kenneth C., La Harpe, Ill. (408 E. John St., Champaign, Ill.)
MacDougall, Robert, National Enameling & Stamping Co., Granite City, Ill. (Coonley Mfg. Co., Cicero, Ill.)
McBerty, R. K., 1213 Dallas Ave., Tarentum, Pa. (150 Frambes Ave., Columbus, Ohio)
Moncrieff, James W., P. O. Box 93, East Liverpool, Ohio. (328 W. 9th Ave., Columbus, Ohio)
Pearson, J. Donald, Chicago Vitreous Enamel Product Co., Cicero, Ill. (325 N. Washington, Ottumwa, Iowa)
Rapp, Carl H., R. F. D. 4, Box 60, Milford, Ill. (708 S. 4th St., Champaign, Ill.)
Rudd, Richard D., 144 East Bluff St., Marseilles, Ill. (26 Weldon Ave., Apt. B, Phoenix, Ariz.)
Soler, Gilbert, Republic Research Corp., Massillon, Ohio. (52 W. Northwood Ave., Columbus, Ohio)
Thomas, J. H., Jr., 2 West 3rd St., Alton, Ill. (410 E. John St., Champaign, Ill.)
Tucker, Gus M., American Terra Cotta Co., Room 1603, 228 N. La Salle St., Chicago, Ill. (Indianapolis Terra Cotta Co., Indianapolis, Ind.)
Walker, Thomas, 1234 S. Orange St., Glendale, Calif. (Box 33, Lincoln, Calif.)
Walsh, Edward R., 605 E. Chestnut St., Louisville, Ky. (Dickinson Fire & Pressed Brick Co., Dickinson, N. D.)
Watts, Orlando S., Standard Enameling Sign & Supply Works, P. O. Box 56, Station J., New York, N. Y. (629 Walnut St., Camden, N. J.)

NOTES AND NEWS

The Ohio State University
Columbus, Ohio
July 3, 1931

General Education Board,
Division of Industrial Art,
New York City, N. Y.

THE GENERAL EDUCATION BOARD RESEARCH IN TABLEWARE DESIGN AT OHIO STATE UNIVERSITY

Gentlemen:

One year ago the fund granted by the General Education Board for the creation of a scholarship at the Ohio State University in ceramic design applied to tableware became available.

At this time we are presenting a brief report of the administration of this grant during its first year. As parts of this report we are sending you the following documents:

(1) A reprint from the *Journal of the American Ceramic Society* for June, 1931, entitled "Tableware Design Research at Ohio State University." This published report of progress states briefly what has been done and outlines the general program which was formulated at the AMERICAN CERAMIC SOCIETY Meeting in Cleveland last February.

(2) A set of blue prints of the typical shapes of a dinner service (round shape) which are drawn to union specifications. A set of these prints has been sent to all tableware manufacturers. A similar set of drawings of square dinnerware shapes conforming to union specifications has been prepared. Blue prints of these will be sent out during the coming month. These two sets of drawings supply fundamental reference material which the factories have not had in definite form. They should be of real value to designers and business executives in the tableware plants as an aid in the discussion and planning of new shapes.

(3) A statement of expenditures to July 1, 1931. It will be noted that the entire amount of $4000 has not been used this year. We have purposely conserved all that we could with the object of having funds available for a more efficient attack on certain problems which we plan to work out next year involving the employment of expensive skilled labor. There is also a part of the work done this year which is still to be published and distributed to manufacturers and will use up a certain amount of the present surplus.

Manufacturers have shown much interest in the study that we are carrying on. We have been particularly fortunate in obtaining the advice and close coöperation of Mr. Frederick H. Rhead, art director of the Homer Laughlin China Company of Newell, W. Va. Mr. Rhead has given a great deal of thought to our project and his counsel and constructive criticism have been invaluable to Mr. Bogatay. The manufacturers have been most willing to help by giving us the freedom of their plants for study of table-ware problems. Fortunately, for the success of our undertaking, the holder of the fellowship, Mr. Bogatay, is well liked by the factory men with whom he comes in contact. This is an important factor in getting the interested coöperation without which a project such as ours would be sadly handicapped.

We believe that a good foundation has been laid upon which there will be built up, during the remaining year of the study, a valuable contribution to the industry. This will comprise not only fundamental reference material such as the blue prints of round shapes (published) and square shapes (completed but not yet published), but also we plan next year to do considerable development work on specific design problems and decorative methods. Mr. Bogatay has already made promising beginnings in work of this sort, both in the development of simple embossed patterns and in decalcomania and underglaze print patterns, several of which are being proofed.

The undertaking is well under way. Paul Bogatay in his nine months of service has shown himself to be an able, intelligent designer, thoroughly interested in his work. He has acquired a good fundamental knowledge of his field of effort. A program has been approved and is being worked out. Expert guidance from Mr. Rhead and others is helping to steer the activity in practical channels. The industry is interested. We have confidence that the complete results of the study will justify the faith and support which the General Education Board has given to the project.

Respectfully submitted,

ARTHUR E. BAGGS,
Professor of Ceramic Art

(7) Printing Contract Communication from the Mack Printing Company dated July 6, copy of which has been sent to the Board and the Publications Committee, was read. Quotations submitted by McGee Brothers of Piqua, the Waverly Press, Baltimore, and Kable Brothers of Mt. Morris were also shown.

Statement was made of the progress in negotiations with the Evangelical Printing Company of Cleveland. Mr. McKinley told of the facilities and of the work of the Evangelical Press, and of the fact that they were doing all of the printing for the American Society for Steel Treating, and that they appeared to be capable of handling the printing of the SOCIETY.

As soon as the Evangelical Press has submitted its bids, they will be presented to the Board and to the Committee on Publications.

(8) Registration Fee at Annual Meeting This was discussed and an informal expression given that because of the registration fee of $2.00 to be charged at the Washington Meeting, delegates should be admitted without charge to the dance.

(9) Annual Banquet The question of an annual banquet was brought up and it was recommended, without formal motion, that the Local Committee and the Division officers try to work out a scheme whereby the Division dinners would be given in a single room, to be followed by such business as each should desire, or such general social affair as the Local Committee will arrange.

(10) Invited Guests at Annual Meeting It was moved by General Orton, seconded by Mr. Kleymeyer, that the Secretary be empowered to work up a list of distinguished guests to whom invitations should be sent, inviting them to attend the Meeting without payment of the registration fee.

(11) Glass Division Summer Meeting The program for the Glass Division Summer Meeting was read. The Glass Division will leave Baltimore by boat on September 11, arriving at Old Point Comfort on September 12, and will return by boat on September 13.

It was moved by General Orton and seconded by Mr. McKinley that Miss Emily C. Van Schoick should attend this meeting of the Glass Division with the Secretary of the SOCIETY and Mrs. Lois Purdy Turner, who is Secretary of the Glass Division.

(12) Century of Progress The status of these plans was reported by the Secretary. A meeting was held in Chicago on July 23, report of which was not at hand for the Trustees' executive meeting on July 24. It has since been learned that the committee which met in Chicago on the 23rd was divided on the question of attempting to secure from the ceramic industries a sufficient sum to finance the surrounding of the portion of the general exhibits hall assigned to ceramics with ceramic material. Led by the face brick interests this proposition is to be pushed to a conclusion satisfactory to all parties interested, but Mr. J. L. Murphy reports that it seems certain that there will be no attempt to have any outside portion of the general exhibit hall built with ceramic materials.

The question then came up on the financing of the general Century of Progress ceramic exhibit for which a space 18 by 60 feet square has been allotted by the Chicago Fair. Mr. Murphy reports that this proposition and also the assistance to the Fair in securing sale of the 100 booths in the ceramic section of the exhibit hall will have to be under the auspices of the AMERICAN CERAMIC SOCIETY. Mr. Murphy is willing to continue to serve as general chairman of this project, and he has asked for recommendations of suitable personnel for the several committees which will be necessary to carry out the Century of Progress exhibit in ceramics and also the ceramic portion of the science exhibit and the ceramic participation in the books which are to be compiled and issued under joint auspices of the Chicago Fair management and the industries.

The question of an International Ceramic Congress to be held in Chicago during the summer of 1933 has not yet been considered, but should be taken up at once.

It is recommended that this Century of Progress project be made a matter of immediate and earnest consideration.

(13) Certificate of Honorary Membership It was moved by Mr. Kleymeyer and seconded by Mr. McKinley that General Orton and the Secretary be empowered to prepare suitable certificates of Honorary Memberships for Dr. Mellor, Dr. Schott, Dr. Day, and for the others who are Honorary Members of the SOCIETY.

(14) A.S.T.M. Committee on Fuel Oils A communication from Harry F. Tapp, Secretary, American Oil Burner Association, 342 Madison Avenue, New York City, requesting the SOCIETY to appoint a representative on the Committee on Fuel Oil Specifications was considered. The Secretary was asked to determine who should be delegated as representative of the SOCIETY.

(15) Revolving Fund Criticisms of Messrs. Silverman and Henderson were considered. The method and purposes of the revolving fund were studied. It was demonstrated that the revolving fund credits and debits were handled in a businesslike way, much as would be petty cash of a business organization, with the exception that in this SOCIETY the Assistant Secretary uses checks on the Northern Savings Bank. The Secretary will work out a scheme for paying out fewer items from the revolving fund and withholding as many as possible of the midmonth payments for the monthly issuance of vouchers on the SOCIETY's principal bank deposit, which at present is with the First Citizens Trust Company.

NEW MEMBERS RECEIVED IN JULY

PERSONAL

Charles Owen Fairchild, C. J. Tagliabue Mfg. Co., 540 Park Ave., Brooklyn, N. Y.
Nicholas Planz, A. O. Smith Corp., Milwaukee, Wis.
Frederick Wegmann, A. O. Smith Corp., Milwaukee, Wis.

Membership Workers' Record

PERSONAL

H. G. Thomson 2	Office 1	Total 3

ROSTER CHANGES IN JULY

CORPORATION*

General Ceramics Co., Lewis Albrecht (voter), 71 W. 35th St., New York, N. Y. (225 Broadway.)
Northwestern Terra Cotta Co., B. Purcell (voter), 4417 Oleatha Ave., St. Louis, Mo. (5739 Manchester.)
Plibrico Jointless Firebrick Co., W. A. Schaefer (voter), 1800 Kingsbury Block, Chicago, Ill. (1130 Clay St.)

PERSONAL*

Baker, Donald R., Metropolitan Paving Brick Co., Canton, Ohio. (35 E. Lane Ave. Columbus, Ohio.)

* Addresses within the parentheses ( ) represent the old addresses.

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Bassett, Leon B., Alfred, N. Y. (Milton, Wis.)
Borland, H. R., R. R. No. 8, Peoria, Ill. (1208 Oak St., Danville, Ill.)
Dietrich, W. F., 782 40th Ave., San Francisco, Calif. (683 Alvarado Row, Stanford University, Calif.)
Fitzpatrick, John, 139 79th St., Niagara Falls, N. Y.; Carborundum Co. (572 Terrace Ave., Clifton, Cincinnati, Ohio.)
Gallup, John, Box 33, Rutgers University, New Brunswick, N. J. (Alfred, N. Y.)
Given, Conrad W., Michigan Steel Corp., Ecorse, Mich. (Ferro Enamel Corp., Cleveland, Ohio.)
Gotham, Thomas B., Whiting & Mead, Los Angeles, Calif. (Darm's Hotel, Burbank, Calif.)
Greaves-Walker, A. M., Libbey-Owens-Ford Glass Co., Toledo, Ohio. (317 W. 10th Ave., Columbus, Ohio.)
Hayes, Walter, Davidson Enamel Co., Connersville, Ind. (1989 Iuka Ave., Columbus, Ohio.)
Holscher, H. H., 1821 South 13th St., Maywood, Ill. (Bureau of Standards, Lord Hall, O. S. U., Columbus, Ohio.)
Kauffman, John R., Dept. of Ceramics, Rutgers University, New Brunswick, N. J. (211 East Pearl St., Miamisburg, Ohio.)
Lees, Arch A., 411 Avon Drive, Mt. Lebanon, Pittsburgh, Pa. (1110 Franklin Ave., Wilkinsburg, Pa.)
Little, James S., Georgetown Porcelain Co., Georgetown, Ontario, Canada. (126 St. George St., Toronto, Canada.)
Lynn, Don C., Smithton, Pa. (Mellon Institute, Pittsburgh, Pa.)
McNerney, Edward A., Hanley Co., Lewis Run, Pa. (624 S. Main St., DuBois, Pa.)
Moncrieff, James W., P. O. Box 327, Newell, W. Va. (Box 93, East Liverpool, Ohio.)
Navratiel, Hans, Fritschestr. 41 I, Berlin-Charlottenburg, Germany. (Paralell Str., 6, Beuthen Oberschlesien, Germany.)
Page, George A., Stockton Fire Brick Co., Pittsburgh, Calif. (University of Washington, Seattle, Wash.)
Peters, Bernard C., 152 Columbia Ave., Seward, Neb.; Seward Brick Co. (Danbury, Iowa.)
Powell, C. G., P. O. Box 246, La Junta, Colorado. (512 Maurry St., Alcoa, Tenn.)
Schaefer, Earl F., 342 Berkley Road, Indianapolis, Ind. (1224 Clawson St., Alton, Ill.)
Schwartzwalder, Karl, A C Spark Plug Co., Flint, Mich. (912 Oakwood Ave., Columbus, Ohio.)
Shands, Everett H., Porcelain Enamel & Mfg. Co., Baltimore, Md. (Box 5626 College Sta., Raleigh, N. C.)
Slaven, S. J., Mullite Refractories Co., Seymour, Conn. (590 Rogers Ave., Brooklyn, N. Y.)
Thiemecke, Harry W., Westinghouse Electric & Mfg. Co., Derry, Pa. (116 W. Norwich Ave., Columbus, Ohio.)
Wilcox, Howard G., Box 330, Willamina, Oregon. (College of Mines, University of Washington, Seattle, Wash.)

NECROLOGY

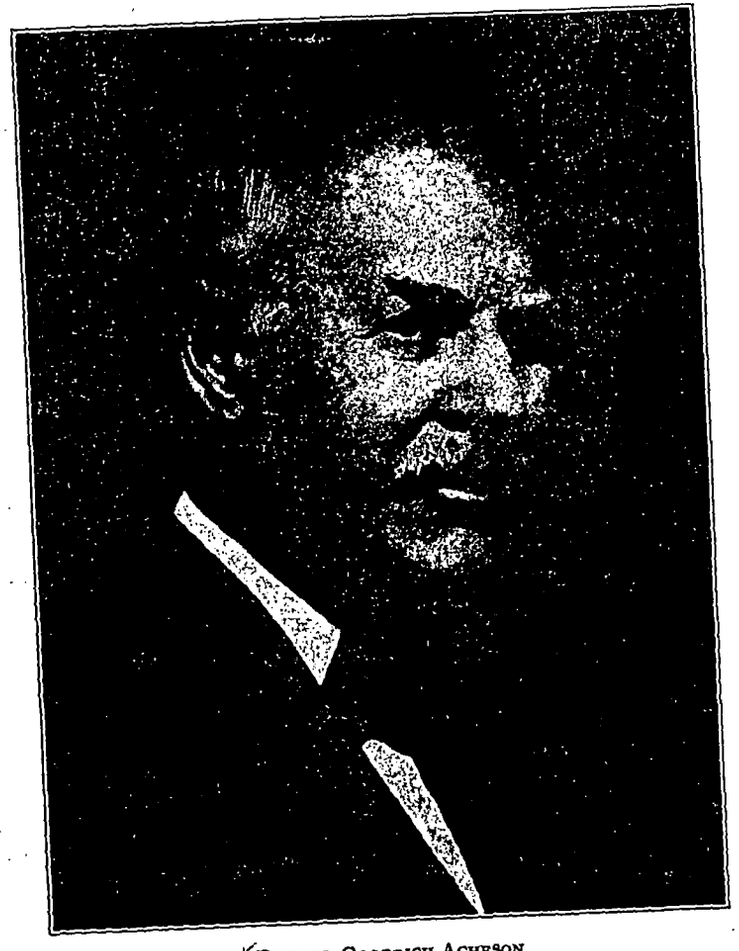
Edward G. Acheson

The death of Edward Goodrich Acheson occurred in New York on July 6, 1931, after a short illness. Dr. Acheson was born at Washington, Pa., March 9, 1856. He attended school at North Sewickley, Pa., for a year and later went to a school at Bellefonte, Pa.

In 1880, Dr. Acheson went to work for Thomas Edison and in 1881 he went to Europe to exhibit Edison's inventions at the International Electrical Exposition in Paris. After the exposition he built lamp factories and installed Europe's first artificial lighting plants in France, Italy, Belgium, Holland, and other countries.

In 1891, Dr. Acheson discovered carborundum and formed the Carborundum Company.

Dr. Acheson was charter member and past president of the American Electrochemical Society, charter member and vice-president of the American Institute of Chemical Engineers, fellow of the American Assn. for the Advancement of Science, member of the American Institute of Electrical Engineers, the American Chemical



EDWARD GOODRICH ACHESON

Society, and the Franklin Institute. He had been a member of the AMERICAN CERAMIC SOCIETY since 1920.

While Dr. Acheson's fame as a scientist is well known among abrasive engineers he will always be remembered as the discoverer of silicon carbide, the man who actually discovered a new cutting agent, the value of which is impossible to estimate in industrial lines.

Afternoon Session, 1:30 P.M.

(4) "Notes on Firing of Refractories," by S. M. Kier, Vice-President, General Refractories Co.

(5) "Permeability of Refractories to Gas at High Temperatures," by Stuart M. Phelps, Director, Refractories Fellowship, Mellon Institute of Industrial Research.

(6) Open session and discussion on Firing of Refractories, Causes of Kiln Marking, and Secondary Expansion.

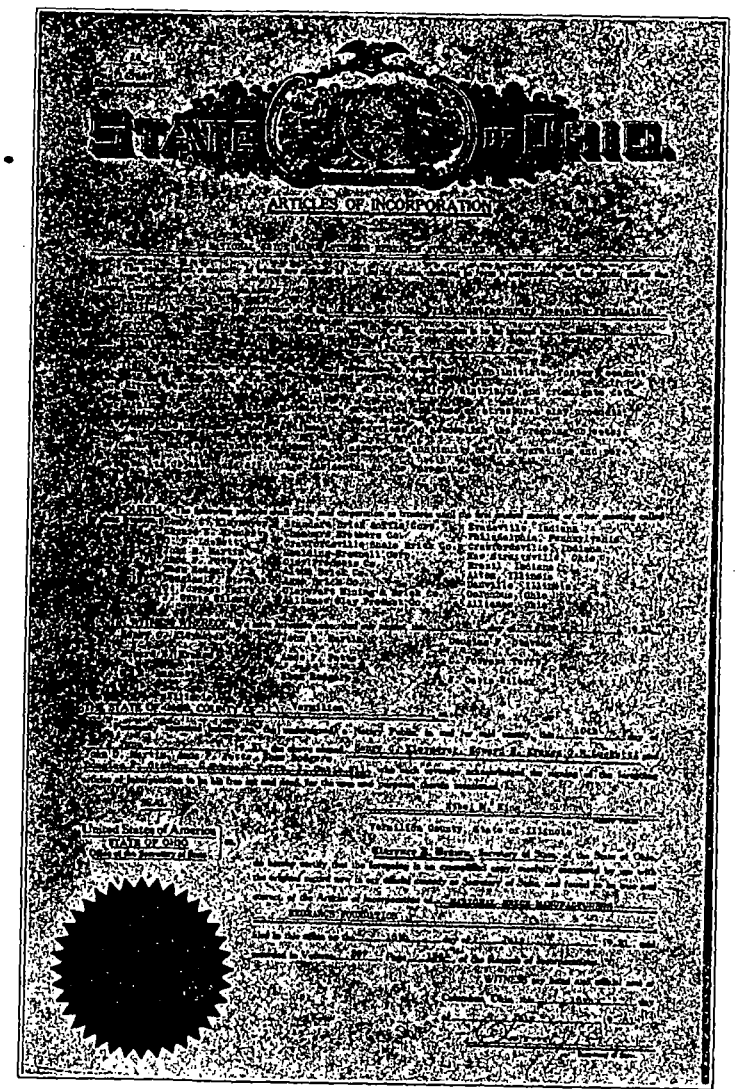


FIG. 1.—Articles of Incorporation of National Brick Manufacturers Research Foundation.

NEW MEMBERS RECEIVED IN AUGUST

CORPORATION

Alabama Clay Products Co., A. J. Holberg (voter), 833–37 Martin Bldg., Birmingham, Ala.

Western Brick Co., F. M. Butterworth (voter), Danville, Ill.

PERSONAL

Felix Edgar Wormser, Secretary-Treasurer, Lead Industries Assn., Graybar Bldg., New York, N. Y.

Membership Workers' Record

CORPORATION: Office 2. PERSONAL: C. H. Peddrick, Jr. 1.

ROSTER CHANGES IN AUGUST

CORPORATION*

Republic Steel Corp., F. M. Portz (voter), Massillon, Ohio. (Name changed from Central Alloy Steel Corp.)

PERSONAL*

Brannon, W. F., Brooks Field, San Antonio, Texas. (Leeds & Northrup Co., Philadelphia, Pa.)

Burr, Marion K., Chas. Taylor Sons Co., Taylor, Ky. (McCall, Ky.)

Butler, Matthew W., 221 East Sheridan Ave., New Castle, Pa.; Westmoreland Products Co. (692 East 115th St., Cleveland, Ohio.)

Given, Conrad W., Michigan Steel Corp., Detroit, Mich. (Ecorse, Mich.)

Haldeman, Virgil K., 330 Whittley Ave., Avalon, Catalina Island, Calif. (Hollydale, Calif.)

Harvey, Edwin T., Goldfield, Iowa. (Y. M. C. A., Joliet, Ill.)

Hunt, M. H., Porcelain Products, Inc., Parkersburg, W. Va. (Westinghouse Electric & Mfg. Co., Derry, Pa.)

Husain, Tajamul, 170 Chittenden Ave., Columbus, Ohio. (Roseville, Ohio.)

Kempf, W. C., 888 De Graw Ave., Newark, N. J. (66 College Ave., New Brunswick, N. J.)

Kennaday, Clinton R., 557 Maple Ave., Woodbridge, N. J. (32 Graham Ave., Metuchen, N. J.)

Kirk, Leander R., Governor Dummer Academy, South Byfield, Mass. (Universal Sanitary Mfg. Co., New Castle, Pa.)

Kirkpatrick, F. A., Apt. 301R, 6234 Chestnut St., Philadelphia, Pa. (Unionville, Mich.)

Kleerup, N. O. Alex, 21 South Park St., Western Asbestos Magnesia Co., San Francisco, Calif. (2708 Channing Way, Berkeley, Calif.)

Krieg, William H., 530 W. Riverside Drive, Kohler, Wis. (This is a correction on the change of address on page 260 of the July *Bulletin*.)

Luks, Daniel W., Frenchtown, N. J. (12 Carroll St., Trenton, N. J.)

Lumley, John H., Northwestern Terra Cotta Co., 2525 Clybourn Ave., Chicago, Ill. (Denver, Colo.)

Messimer, LaVerne A., Cement Reference Laboratory, Bureau of Standards, Washington, D. C. (15 Howard St., Manchester, N. Y.)

Mitchell, Lane, 157 Baker St. N.W., Atlanta, Ga. (111 Ceramics Bldg., University of Illinois, Urbana, Ill.)

Moncrieff, James W., 310 W. Broad St., Columbus, Ohio; Harrop Ceramic Service Co. (Newell, W. Va.)

Oravec, Joseph A., 4726 North Kenton Ave., Chicago, Ill. (237 N. Dithridge St., Pittsburgh, Pa.)

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Petrie, Earl C., 925 Clarissa St., Pittsburgh, Pa. (Cheswick, Pa.)
Richardson, Gordon B., W. S. Dickey Clay Mfg. Co., 116 New Montgomery St., San Francisco, Calif. (Livermore, Calif.)
Ruprecht, Bertram C., 546 Miffin Ave., Wilkinsburg, Pa. (122 Whitfield St., Pittsburgh, Pa.)
Spurrier, H., c/o Wm. Carruthers, Lathrup Townsite, Birmingham, Mich. (4512 Malden Ave., Chicago, Ill.)
Taylor, Chas. H., Chas. Taylor Sons Co., Taylor, Kentucky. (McCall, Ky.)
Thornton, Paul E., 47 Hubbard Ave., Mt. Clemens, Mich. (428 Argyle St., Waterloo, Iowa.)
Turner, Drury D., 2704 4th St., N.W., Canton, Ohio. (2801 Preble Ave., Pittsburgh, Pa.)
Walker, Thomas, Lalux Clay Co., Alamogordo, New Mexico. (1234 S. Orange St., Glendale, Calif.)
Watters, C. R., 1101 Elm Rd., N.E., Warren, Ohio. (20 Linden Rd., Mansfield, Ohio.)
Weis, J. H., United Feldspar Corp., 10 E. 40th St., New York, N. Y. (Northville, N. Y.)
Westmont, O. B., 1060 Park Ave., Schenectady, N. Y. (Lompoc, Calif.)
Wheeler, D. D., 314 West 5th, Erie, Pa. (2141 University Ave., Morgantown, W. Va.)
Wilde, John F., Catalina Clay Products, Avalon, Catalina, Calif. (635 N. Main St., Pomona, Calif.

NECROLOGY

W. E. Wells

Mr. W. E. Wells, Chairman of the Board of Directors of the Homer Laughlin China Company, Newell, W. Va., died suddenly Friday, September 18, 1931.

An outline of Mr. Wells' active career is given as follows:

(1) Born in 1863 in Brooke County, W. Va., a farmer boy.

(2) Educated in the Steubenville public schools.

(3) Answered advertisement for bookkeeper at Homer Laughlin in 1889.

(4) Was made manager of the Homer Laughlin China Company in 1896 when the Laughlin interests were purchased by the Aaron Brothers of Pittsburgh.

(5) Built the plant capacity up to twenty-five times that which the Company had when he became manager.

(6) Resigned as Secretary and General Manager in 1930 and was made Chairman of the Board of Directors.

(7) At the time of his death, Mr. Wells was President of the Potters' National Bank and director in six business corporations other than the Homer Laughlin China Company.

(8) Was a leader in many civic enterprises, member of the Board of Education, a generous contributor to hospitals, schools, and religious institutions, and a leader in community activities during the war.

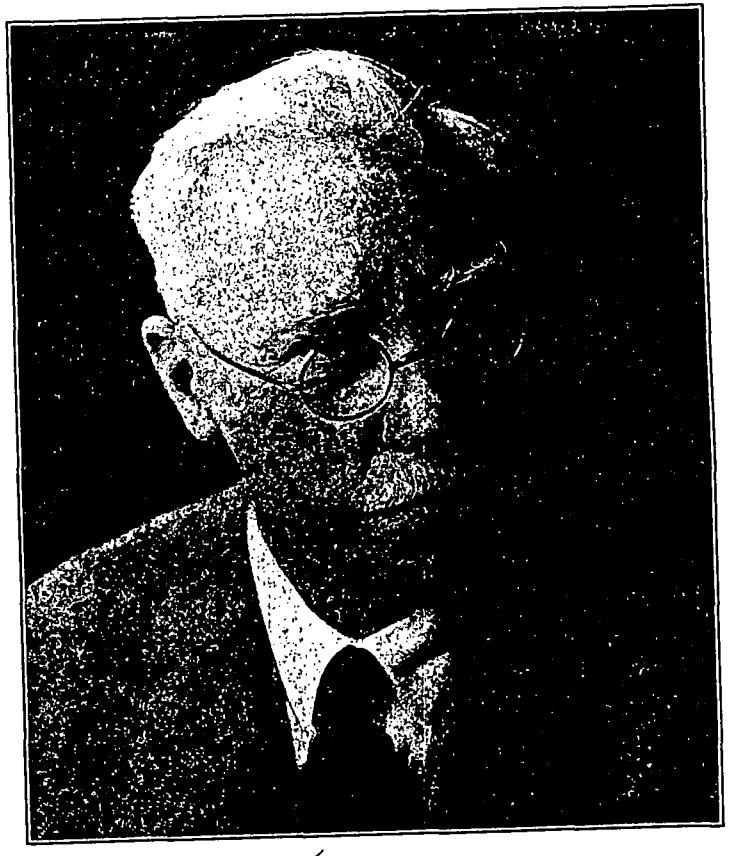
(9) Served as president of the U. S. Potters' Association and for several years as chairman of the wage and tariff committees of that Association.

(10) A self-taught scholar, learned in literature, an excellent orator, a humanistic philanthropist, a booster for such coöperative enterprises as the AMERICAN CERAMIC SOCIETY, Mr. Wells naturally found many ways for leadership in civic, national, industrial, educational, and religious affairs. He did not live alone to himself and for himself but gave generously of his talents and of his substance.

(11) The building of the world's largest pottery, marked achievements in local and national affairs, a director in varied human affairs are only indicative marks of his business genius and unusual keenness in organized affairs. These material achievements

do not reveal the cultured man whose leadership was not by might but by love and appreciative interest in the welfare of those with whom he came into contact, the rich and the poor, the lowly and the favored, the young and the aged.

The true greatness of Mr. Wells was reflected in the large number of people of all



W. E. WELLS

walks and stations in life who lined the streets in respectful attention as the cortège passed from his home to the cemetery. These people were indeed impressive symbols of sympathy and respect for this man who had been their generous leader in so many affairs that concerned their well being, both individually and in the community in which they live.

The AMERICAN CERAMIC SOCIETY lost a valuable, staunch, and inspiring member

ACTIVITIES OF THE SOCIETY

ANNUAL MEETING OF THE AMERICAN CERAMIC SOCIETY WASHINGTON, D. C.

Program for Baltimore Day

February 11, 1932

Leave Washington, Union Station, 9:10 A.M. via special cars over B. & O. R.R.

Arrive Baltimore 10 A.M. Buses will take the party through the center of the city to City Pier and aboard the "Steamer Latrobe" as the guest of the Mayor, Hon. Howard W. Jackson, for a view of the harbor and a number of historical points of interest. Loud speakers will be used, and a member of the Association of Commerce will give a lecture en route. A splendid view of the Chesapeake Bay. A stop will be made at the historic Fort McHenry.

The party will lunch at the Emerson Hotel.

After lunch the party will visit the famous ceramic collection at the Walters Art Gallery. This is a private gallery, one of the world's finest.

Dinner at the Emerson Hotel at 5:30 P. M.

At 7 P. M. the party will be the guest of Frank H. Reagan, President of the Locke Insulator Corporation, to view an electrical demonstration at the high-voltage laboratory: Man-made lightning, 3 million volts, and the action on high-tension insulators; a miniature city will be destroyed by lightning; a number of interesting tests by high voltages; also a collection of early electrical porcelains showing the development over forty-five years. The plant will be open to view the tunnel kiln.

Art Exhibit at Washington

The exhibition of the Art Division held in Cleveland was very successful. The one to be held in Washington next February should be still better. It is planned that the exhibition will be shown in a Washington gallery under professional conditions.

The Exhibition Committee, composed of Myrtle M. French, Marion L. Fosdick, and William E. Ross, is suggesting five main groups to be considered by those planning entries. They are as follows:

(1) Experimental processes in any field of ceramics which might be useful to a manufacturer or craftsman carrying on mass production.
(2) Pieces so designed that they would be practical for mass production.
(3) Well-rendered designs which may be accompanied by an executed portion of the design or well-rendered designs using standard ceramic products.
(4) Ceramic models of objects too large to exhibit.
(5) Individual pieces.

Hitherto, the exhibition has been made up mostly of the last group. This year the craftsmen are urged to contribute also toward the other four groups.

Each person, by paying an entry fee may exhibit eight pieces in group five. Those also interested in helping solve the problems of design for mass production will be allowed to exhibit free, eight pieces classified under groups one to four, inclusive.

Except in the case of schools, no group of potters shall exhibit under a group name, but a group working together may exhibit as individuals. It is hoped that work accepted at the Sloane Exhibition and left unsold will be kept to be shown in this exhibition.

Definite details of the exhibition will be sent later when all of the arrangements have been made. Every member of the Art Division is urged to contribute to the exhibition.

NOMINATIONS OF THE STRUCTURAL CLAY PRODUCTS DIVISION

In accordance with Section 2, Article V of the By-Laws of the Structural Clay Products Division, the Nominating Committee has submitted to me the following nominations for officers of the Division:

Chairman: Amos P. Potts, Brazil, Ind.
Vice-Chairman: H. R. Straight, Redfield, Iowa.
Secretary: Marion Blair, Terre Haute, Ind.

Additional nominations may be made as provided in Section 3, (*a*) and (*b*), Article V, as published in the *Bulletin*, April, 1931. HOWELLS FRÉCHETTE, *Chairman*, Structural Clay Products Division.

NEW MEMBERS RECEIVED IN SEPTEMBER

CORPORATION

A C Spark Plug Co., Taine G. McDougal (voter), Flint, Mich.
Ceramic Color and Chemical Mfg. Co., W. F. Wenning (voter), P. O. Box 81, New Brighton, Pa.
Lee Clay Products Co., Inc., M. S. Bowne (voter), Clearfield, Ky.
J. C. Steele & Sons, H. O. Steele (voter), Statesville, N. C.

PERSONAL

B. K. Bhaduri, 5-1-A, Gopal Nagar Rd., Calcutta, India; *Bengal Potteries, Ltd.*
Willard K. Carter, 1259 S. High St., Columbus, Ohio; National Aluminate Corp.
Victor Joseph Duplin, Jr., 10 College Ave., Medford, Mass.; Industrial Research Fellow, Massachusetts Institute of Technology.
M. M. Leighton, 305 Ceramics Bldg., University of Illinois, Urbana, Ill.
S. H. Renton, 12426 Mendota, Detroit, Mich.; J. B. Ford Co., Wyandotte, Mich.

STUDENT

Jack A. Cunliffe, University of Washington, Seattle, Wash.

Membership Workers' Record

PERSONAL		CORPORATION	
F. C. Flint	1	Office	4
R. M. King	1		
F. H. Norton	1	STUDENT	
E. P. Poste	1	Hewitt Wilson	1
Office	1		—
Total	5	Grand Total	10

ROSTER CHANGES IN SEPTEMBER

PERSONAL*

Anderson, L. S., R. F. D. No. 1, Crystal Lake, Ill. (Terra Cotta, Ill.)
Arnold, Howard C., 119 Summit Ave., Jenkintown, Pa. (1131 Foulkrod St., Philadelphia, Pa.)
Burchfiel, B. M., Gladding, McBean & Co., 2901 Los Feliz Blvd., Los Angeles, Calif. (Alberhill, Calif.)
Devol, James C., Louisville Products Co., 1414 South 13th St., Louisville, Ky. (A. B. Stove Co., Battle Creek, Mich.).
Eatherton, Clarence Z., Botfield Refractories Co., Swanson and Clymer Sts., Philadelphia, Pa. (Buckeye Clay Pot Co., Toledo, Ohio.)
Hermann, Max, 338 Burnett St., New Brunswick, N. J. (735 N. Sixth St., Allentown, Pa.)
Hotchkiss, C. A., Lilly Chapel, Ohio. (211 Newton Ave., S. W., Canton, Ohio.)
Humphrey, Ingraham, 41 Jewel St., Rochester, N. Y. (Canisteo, N. Y.)
Kempf, W. C., Box 72, Metuchen, N. J. (888 De Graw Ave., Newark, N. J.)
Longenecker, H. L., 204 W. Morgan St., Raleigh, N. C. (P. O. Box 1457, Wilson, N.C.)
McHose, M. M., 144 Rockview Ave., Plainfield, N. J. (181 Amboy Ave., Metuchen, N. J.)
Pole, Gordon R., Pittsburgh Plate Glass Co., Creighton, Pa. (Bureau of Standards, Washington, D. C.)
Riley, R. J., R. F. D. No. 1, Crystal Lake, Ill. (Terra Cotta, Ill.)
Rudd, Richard D., 905 N. Fifth St., Phoenix, Arizona. (144 E. Bluff, Marseilles, Ill.)
Scholes, S. R., 1565 Lincoln Rd., Columbus, Ohio. (Fostoria Glass Co., Moundsville, W. Va.)
Sheerer, Mary G., 2122 Auburn Ave., Apt. 10, Cincinnati, Ohio. (H. S. Newcomb College, New Orleans, La.)
Shoemaker, George W., Ar-Ke-Tex Corp., 17 N. Meridan St., Indianapolis, Ind. (Clay Products Co., Brazil, Ind.)
Soler, Gilbert, 52 W. Northwood Ave., Columbus, Ohio. (Republic Research Corp., Massillon, Ohio.)
Thomas, John H., Y. M. C. A., 5th and Vine Sts., Evansville, Ind. (2 W. Third St., Alton, Ill.)
Woodhouse, Charles D., Mocalno, Mono County, Calif. (Laws, Inyo Co., Calif.)

NOTES AND NEWS

CERAMIC SCHOOL NOTES

University of Illinois Short Course[1]

Plans are under way for the next Short Course to be held by the Department of Ceramic Engineering at the University of Illinois in January.

The practice of holding a Short Course dates from 1912 and it has always been looked forward to with a great deal of interest by many men from the industry who have been glad to take advantage of the opportunities for attending the lectures which are given on topics relating to the practical operations of the ceramic industry. The courses are designed especially for the benefit of the managers, superintendents, foremen, engineers, and plant men, and they are presented in such a way as to be easily understood by the hearers. A technical education is not necessary.

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[1] C. W. Parmelee, Head of the Department of Ceramic Engineering, University of Illinois.

UNIVERSITY OF ALABAMA[1]

The School of Chemistry, Metallurgy, and Ceramics of the University of Alabama was organized in September, 1929, with Dr. Stewart J. Lloyd as Dean. This arrangement was adopted to obtain a better coördination of the three subjects and students registered in the School are required to take fundamental courses in all of them. In the senior year there are a number of options which permit specialization. At the present time over 50 students are registered in the different ceramic courses and it is expected that there will be a larger number next year due to a marked increase in the enrollment of sophomores.

The ceramic laboratories occupy more than 5000 square feet of floor space, to which is added a well-equipped chemical laboratory. The principal items of equipment are a large gas-fired test kiln capable of reaching cone 20, fusion furnace of the Mellon Institute design, frit furnace, Mueller roll press, tile press, ball mill rack with six pebble mills, six bucket blungers, electric drier, large gas-fired drier, jaw crusher, disk pulverizer, and a good sized air compressor. The laboratory is equipped with control instruments such as a draft gage, psychrometer, Orsat apparatus, portable potentiometer, three-point automatic temperature recorder, and standard testing sieves.

A new spray booth, small electric muffle furnace and silicon carbide muffles have been purchased as it is planned to do some work on vitreous enameling. The laboratory work has so far consisted of clay testing, ceramic bodies, glazes, and special refractories.

In addition to teaching, the department has done considerable commercial research and assists the Department of Fine Arts with the firing and glazing of art pottery. Research work is being done at the present time on the use of soluble silicates in glazes and also on raw lead crystalline glazes. Some work will be started in the near future on a study of the particle size of ceramic materials.

[1] T. N. McVay, Professor of Ceramics, University of Alabama.

COLLECTIVE ORGANIZATION OF INDIVIDUAL INTEGERS

The following communication from Karl T. Compton, Chairman of the Governing Board of the American Institute of Physics, has recently been sent to the members and Fellows of the American Physical Society, the Optical Society of America, the Acoustical Society of America, and the Society of Rheology.

By action of the Councils of your several societies, the American Institute of Physics has now been established under a managing board, composed of three representatives elected by the council of each of the four coöperating societies. The Institute of Physics is to be an agency for studying the common problems of the organizations representing physics in America and for undertaking thereafter such functions as the coöperating societies may assign to it. The subjects that the Institute has already been commissioned to study are briefly the problems of publications in physics, their better correlation and adaptation and means of better financial support; the questions of helpful contacts and closer relations among all the organizations and groups, local or extended, interested in physics; and the subject of the relations of physics and physicists with the public, which resolves itself on the one hand into interesting and informing the public by use of effective channels of publicity and on the other hand to seeking more support for physics from the public.

An essential part of the plan of the Institute was securing a competent full time Executive Secretary or Director to lead its work. The Governing Board takes pleasure in announcing the appointment as Director of the Institute of Physics Henry A. Barton, formerly Research Engineer with the American Telephone and Telegraph Co., Ph.D.

NEW MEMBERS RECEIVED IN OCTOBER

PERSONAL

Ross M. Evans, 1179 Orr Ave., Kittanning, Pa.; Chief Ceramist, The Continental Clay Products Corp.
Gordon S. Reblin, 660 Main St., Woburn, Mass.; Superintendent, R. Guastavino Co.

STUDENT

Ohio State University, Columbus, Ohio

Kenneth William Balsizer
H. Clay Ellinger
A. Josephine Gitter
William O. Hug
Lewis Gray Minton
John T. Russ

Pennsylvania State College, State College, Pa.

Ronald E. Griffiths
Donald Victor Oesterling

Membership Workers' Record

PERSONAL		STUDENT	
G. R. Truman	1	J. B. Shaw	2
Malcolm Blodgett	1	Office	6
Total	2	Total	8
		Grand Total	10

ROSTER CHANGES IN OCTOBER

PERSONAL*

Fear, H. E., % N. J. Markley, Warsaw, Ohio. (1228 W. 112th St., Lakewood, Ohio)
Grout, J. R., Jr., B. Mifflin Hood Co., Norwood, N. C. (Daisy, Tenn.)
Keller, W. D., 13 Conant Hall, Cambridge, Mass. (North Kansas City, Mo.)
Kenagy, William L., 44 Woodruff Place, Perth Amboy, N. J. (5145 Charles St., Philadelphia, Pa.)
Mayfield, Chester C., Brockway Clay Co., Brockway, Pa. (612 Ray Ave., New Philadelphia, Ohio)
Moody, H. Leslie, 695 Eppley Ave., Zanesville, Ohio. (1912 N. High St., Columbus, Ohio)
Owens, J. B., Route 2, Box 223A, Kome Ave., Homestead, Florida. (32 Snediker Ave., Brooklyn, N. Y.)
Roemer, Orland A., 268 W. 1st St., Spencer, Iowa. (Sherburn, Minn.)
Shaw, Myril C., 66 W. Tenth Ave., Columbus, Ohio. (Roseville, Ohio)
Spurrier, Harry, 9600 Dexter Blvd., Detroit, Mich. (Birmingham, Mich.)

NOTES AND NEWS

CONFERENCE ON FIRING

A conference on firing will be held at the Roseville Experimental Plant of the Ohio State University, December 17, 18, and 19. The sessions will begin at 1:00 P.M. Thursday, December 17, and will end at noon on Saturday, December 19. The following program has been outlined:

(1) Fuels, by H. E. Nold and E. V. O'Rourke
(2) Combustion, by D. J. Demorest
(3) Flue-Gas Analysis, by W. E. Rice and C. A. Austin
(4) Kiln Draft and Heat Distribution, by J. L. Carruthers
(5) Pyrometry, by T. A. Klinefelter and G. A. Bole
(6) Kiln Firing, by C. B. Harrop and F. M. Hartford
(7) Research in Kiln Firing, by W. E. Rice and C. A. Austin

The course is planned to be of greatest benefit to plant operators. This work leads up to a report on the research work which has been carried on for two years by the Engineering Experiment Station in coöperation with the Federal Bureau of Mines, Fuels Division.

The lectures will in each case be followed by laboratory and plant demonstrations.

An elaborate equipment for kiln tests has been set up at Roseville, in which coal is fired in two types of stokers and on dead bottom and horizontal grates in hand-fired furnaces. The gas firing of periodic kilns will also be demonstrated.

This will be a fine opportunity for plant men to get needed fundamental information in regard to fuels, combustion, methods of firing, and the control problems involved in the firing of ceramic ware. A discussion will follow each lecture period. The course is planned to interest those firing any type of fuel in any type of kiln, whether the ware be fine ware or structural clay ware. Visits will be made to plants firing structural clay ware, tile, stoneware, and tableware and the firing systems will be explained in the light of the information given during the lecture and laboratory period.

All are invited and no charge will be made for the conference. Further information and reservations may be obtained from G. A. Bole, Lord Hall, Ohio State University, Columbus, Ohio.

GLASS INDUSTRY EXHIBITION

An exhibition illustrating the more important developments of recent researches in glass technology was opened at the Science Museum, London, England, by Sir Richard Gregory on October 21 and will remain open until December 31. The exhibition is intended to show the many technical advances and the numerous improvements in the physical and chemical properties which have resulted from the scientific work carried out on many types of glass during the past fifteen years. The procedure of the research worker is illustrated by specimens, descriptions, diagrams, and apparatus. Other features of the exhibition are a series of films showing glassmaking processes, popular lectures on various subjects, and demonstrations.

CALENDAR OF MEETINGS

Organization	Date	Place
American Assn. for the Advancement of Science	December 28, 1931–January 2, 1932	New Orleans, La.
AMERICAN CERAMIC SOCIETY	February 7–13, 1932	Washington, D. C.
American Chemical Society	March 14–18, 1932	New Orleans, La.
American Engineering Council	January 14–16, 1932	Washington, D. C.
American Foundrymen's Assn.	May 2–6, 1932	Philadelphia, Pa.
American Gas Assn.	October 10–16, 1932	Atlantic City, N. J.
American Institute of Chemical Engineers	December 9–11	Atlantic City, N. J.

* Addresses within the parentheses represent the old addresses.

These roster changes which appear each month may be checked against the complete Membership Roster which was published in the July, 1929, issue of the *Bulletin*. Copies of this issue may be obtained from the Secretary's office, price $2.00.