

Films of Interest to Ceramists

The following is a revised list of films pertaining to ceramics and related fields. This is a continuing project of the Missouri Chapter of Keramos. Every few years the old list is renewed and published in the *Bulletin of the American Ceramic Society*.

All of the following films are free, except for transportation charges in many cases. The number following each film corresponds to one at the end of the report which indicates the distributor of the film. The demand for these films is such that all orders should be placed three weeks before their intended use.

The committee wishes to acknowledge the cooperation of these distributors in making this public service possible. If there is any error or omission in this list, please contact the committee.

Glenn Hollenberg
Committee Chairman

Abrasives

"Precision with Norton Abrasives"; 15min, 16mm, sound, color. The many precision instruments now in use for accurate measurements are featured: precision gage blocks, electronic gages, dial indicators, optimeters, comparison microscope, and epimicroscope. (1)

"Adventures in Abrasives"; 25 min, 16mm, sound, color. This film shows the manufacturing of grinding wheels: from the mining of bauxite to the finished product. (1)

"Romance of Industry"; 40 min, 16mm, sound, b/w. Shows the discovery of carborundum (SiC), development of the abrasive industry, and manufacturing and uses of abrasives today. (2)

"Prescription for Grinding Progress"; 28 min, 16mm, color, sound. Latest developments achieved by Bay State in processing and manufacturing techniques. (3)

"Tomorrow's Abrasive Tools Today"; 22 min, 16mm, color, sound. Shows the production of several types of abrasives along with actual operation shots in industry. (3)

Cement

"Future in Concrete"; 14 min, 16mm, sound, color. Details of the addition, which doubled the capacity at a New Mexico plant. (4)

Chemistry and Physics

"Exploration with the High Temperature Microscope"; 22 min, 16mm, sound, color. Story of the development of a high temperature microscope. Shows crystals forming at temperatures up to 4700°F. (2)

"Heat—the Science and Economics of Its Control"; 26 min, 16mm, sound, color. Explains and illustrates the problems of heat transfer, as well as solutions based on modern insulation research. (5)

"The Ultimate Structure"; 26 min, 16mm, sound, b/w. Story of what X-ray diffraction and X-ray spectrography can do for American industry. (6)

Electronics

"Electrical Quality Control of Raw Mica Used in Capacitors"; 9 min, 16mm, silent, color. (7)

Glass

"Glass and You"; 28 min, 16mm, sound, color. The story of glass, from its beginning 75,000 years ago to its tremendous contribution to art, the sciences, and industry today. (8)

"Magic Fiber"; 14 min, 16mm, sound, color. The manufacturing of fiberglass reinforced plastic. (9)

"Old to New in Glass"; 22 min, 16mm, sound, color. Illustrates the glass industry from beginning to today's products. (9)

"Success Story"; 28 min, 16mm, sound, b/w. Shows facilities and production at Owens-Corning Fiberglas. (9)

"To Greater Vision"; 28 min, 16mm, sound, b/w. The story of the manufacturing of glass used in optical instruments and eyewear. (10)

"Sealed in Glass"; 27 min, 16mm, sound, b/w. An award winning film which traces the history of glass containers. (13)

"Space Building for Man"; 25 min, 16mm, sound, color.

The installation of thermopane in new buildings. (14)

"Engineering with Glass"; 28 min, 16mm. (15)

"The Nature of Glass"; 37 min, 16mm, sound, color. The unique fundamental structure of glass is shown. Major types of glasses are described and their characteristics pictured. Special types of glasses are illustrated; like the glass used in atomic reactor "hot cell" windows and the glass used in electrical components for computers and missile systems. (15)

"Reaching for the Stars"; 10y₂ min, 16mm, sound, color. Story of scientific achievement—the role glass has played in man's conquest of the unknown. (15)

Refractories

"Asbestos. . . a Matter of Time"; 23 min, 16mm, sound, color. The story of how asbestos fibers came into use and shows today's modern mining and milling methods. (5)

"Celite, the Story of the Diatom"; 33 min, 16mm, sound, color. Describes the mining operations and the processing of diatomaceous silica. (5)

"The Making, Shaping, and Treating of Steel"; 50 min, 16mm, sound, color. A series of 6 films which cover the important steel making processes. (11)

"Vacuum Pouring for Better Forging"; 13 min, 16mm, sound, color. Illustrates the use of a vacuum chamber to remove hydrogen and oxygen from steel. (12)

"Progress in Modern Basic Refractories"; 35 min, 16mm, sound. Story of the production of basic refractories. (16)

"Refractories — Nucleus of Industry"; 29 min, 16mm, sound, color. A general story of refractories and their use, with an emphasis on the manufacture of basic refractories and research. (17)

"The Wayward BTU"; 10 min, 16mm, sound, color. Properties of thermal insulation. (9)

Structural Clay Products

"Brick — How They Are Made and Used in Great Britain"; 40 min, 16mm, sound, color. Illustrates the manufacturing processes, color and texture produced in England. (18)

"Building Dreams"; 25 min, 16mm, sound, color. Tells story of man's use of clay from ancient times to today. Shows manufacturing and use of structural clay products. (18)

"Man and Masonry"; 20 min, 16mm, sound, b/w. A striking story of the aesthetic elements of brick and tile design. (18)

"Manufacturing of Brick"; 25 min, 16mm, sound, color. Production of brick by General Clay Products Co. (19)

Whitewares

"Everything Under Control"; 30 min, 35mm, sound, color. Manufacturing of porcelain enamel and glaze frit in a large commercial frit plant. (20)

"Progress Through Research"; 14 min, 16mm, sound, color. How research helps to provide required spark plugs for today's and tomorrow's engines. (21)

"The Second 50 Million"; 27 min, 16mm, sound, color. Describes in detail the manufacturing and testing of ceramic suspension insulators for power transmission lines. (22)

"The Story of the Modern Spark Plug"; 27 min, 16mm, sound, color. Electronics and raw materials processing equipment. (21)

"What's the Difference"; 28 min, 16mm, sound, color. How vitrified hotel and restaurant china is made at Buffalo China Inc. factory. (23)

Distributors

- (1) Norton Company, Worcester 6, Mass.
- (2) The Carborundum Co., Public Relations Branch, Niagara Falls, N. Y.
- (3) AVCO, Bay State Abrasives Div., Westboro, Mass.
- (4) Ideal Cement Company, Public Relations Dept., 707 Denver National Building, 821 17th St., Denver 2, Colo.
- (5) Johns-Manville Sales Corp., 22 East 45th St., New York, N. Y.
- (6) Phillips Electronics Instruments, 750 S. Fulton Ave., Mount Vernon, N. Y.
- (7) Film Library, If 108, Bell Telephone Laboratories, Inc., Murray Hill, N. J.
- (8) Associate Films Inc., 79 E. Adams St., Chicago, 111.
- (9) Owens-Corning Fiberglas Corp., National Bank Building, Toledo 1, Ohio
- (10) Bausch and Lomb, Inc., 635 St. Paul St., Rochester 2, N. Y.
- (11) United States Steel Corp., Chicago Film Distribution Center, 208 S. La Salle St., Chicago, 111.
- (12) Bethlehem Steel Corp., Advertising Div., Bethlehem, Pa.
- (13) Armstrong Cork Co., Advertising and Production Dept., Lancaster, Pa.
- (14) Libbey-Owens-Ford Glass Co., 811 Madison Ave., Toledo, Ohio
- (15) Corning Glass Works, Publication Dept., Corning, N. Y.
- (16) Kaiser Refractories Div., Kaiser Aluminum & Chemical Corp., 300 Lakeside Dr., Oakland, Calif.
- (17) Harbison-Walker Refractories Co., 2 Gateway Center, Pittsburgh, Pa.
- (18) Structural Clay Products Institute, 228 N. La Salle St., Chicago 1, 111.
- (19) General Clay Products Co., 1445 W. Goodale Blvd., Columbus, Ohio
- (20) Pemco Div., Glidden Co., 5601 Eastern Ave., Baltimore 24, Md.
- (21) Champion Spark Plug Co., Toledo 1, Ohio
- (22) Ohio Brass Co., 380 N. Main St., Mansfield, Ohio
- (23) Buffalo China, Inc., New York 10, N. Y.

Nuclear Division Announces Plans for Us First Fall Meeting

First fall meeting of the recently established Nuclear Division of the Society has four topics tentatively outlined for its technical sessions. Stephen C. Carniglia, chairman of the program committee, lists these topics:

a. Instrumental techniques for investigating irradiated ceramic fuels or "hot" isotopes.

b. Fission and environmental effects in characterized ceramic nuclear fuels (oxides, carbides, nitrides, and mixtures): mechanisms, effects on composition, properties, structures, etc.

c. Very high temperature energy source materials: radio-isotope sources, thermionic or propulsion reactor fuels, cermets: behavior, properties, structure, interactions, radiation effects, etc.

d. Radiation and environmental effects in nuclear graphites and carbons: behavior, properties, structure, mechanisms; influence of initial structure, etc.

"Papers of general interest in nuclear ceramics are also being scheduled," added Dr. Carniglia, although it is the general plan to defer papers dealing primarily with processing and fabrication until the 1967 Annual Meeting of the Society.

The Nuclear Division's meeting will be held October 26-28 as concurrent with the 19th Pacific Coast Regional Meeting. Both will be in the Sheraton Motor Inn, Portland, Ore. The Oregon Section of the Society will be host.

Structural Clay Products Division to Visit Mapleton Development Plant

Two plant tours of unusual interest and technical sessions for presentation of a dozen or more papers are on the program for the fall meeting of the Structural Clay Products Division. Headquarters for the September 21-24 meeting will be the Hotel Onesto, Canton, Ohio.

H. Howard Lund of Pomona Pipe Products, chairman-elect and program chairman, promises an entertaining as well as instructive meeting.

Registration is to open the afternoon of Wednesday, September 21, with an informal visiting session that evening.

Thursday has been set aside for tours of the Belden Brick Company at Canton, and Mapleton Development, Inc., south of Minerva, Ohio. The Mapleton plant produces SCR veri-lite, the lightweight clay aggregate, as described in the May 1964 issue of the *Ceramic Bulletin*.

An informal barbeque is planned for the evening, with the ladies to be included.

Technical sessions will be Friday and Saturday mornings. Friday afternoon will have a golf tournament, followed by a cocktail party and banquet with a speaker.

Richard R. Robinson of Alliance Clay Product Co. is working on local arrangements and entertainment features of the meeting.

National Beryllia Promotes Styhr

Karsten H. Styhr has been named manager for research and development by National Beryllia Corp. Formerly associated with National Lead Co. research laboratories and Sperry Gyroscope, he joined National Beryllia in 1962 as head of ceramic research. He became manager of development engineering in 1965.

Mr. Styhr's new responsibilities include research and development engineering functions, and technical procedures and facilities for quality control laboratories.

A 1952 graduate of Alfred University, Mr. Styhr joined the American Ceramic Society in 1950 and is a member of the Basic Science Division.