Films of Interest to Ceramists

"T"HE FOLLOWING is a revised list of films pertaining to ceramics and related fields. This is a continuing project of the Missouri Chapter of Keramos.

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 3 weeks before its 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.

Sincerely,
Israel Denlow
Committee Chairman

Note: All films are believed to be 16mm, sound, and B&W unless marked otherwise.

Abrasives

"Adventures in Abrasives"; 25 min., color. Describes the manufacturing of grinding wheels: from the mining of bauxite to the finished product. (1)

Electronics

"Ceramics and Electronics"; 22 min. color. The importance of ceramic materials and processes in oscilloscope development and manufacture is described in this film. (2)

"Building a Ceramic Cathode-Ray Tube"; *32y₂* min., color. The film explains the advantages and the problems of using ceramic, then shows, step-by-step, the complete manufacturing process. (2)

"The Transistor"; 10 min. Story about the transistor's discovery and development (good for general audience) (3)

"Crystal Clear"; 10 min., color. Shows how tiny chemical seeds grow to provide a substitute even better than the hard-to-get natural quartz. (3)

"Krystallos"; 11 min., color. Explores the interesting background of quartz. It shows how Bell engineers and scientists discovered a way to make synthetic quartz better than Mother Nature. (3)

"Brattain on Semiconductor"; 30 min. Dr. Walter H. Brattain, awarded a Nobel Laureate in Physics, presents an introductory lecture on semiconductors for college level students. (3)

"Zone Melting"; 35mm. 45 min. Gives an introduction to zone melting, suggested for college level students. (3)

"Domains and Hysteresis in Ferromagnetic Materials"; 38 min. Develops theories fundamental to understanding hysteresis in magnetically soft and magnetically hard materials. (3)

"Glass-K, Miniature Capacitors"; 15 min. color. Shows the production and use of Glass-K capacitors with its characteristics. (4)

Glass and Fiber Glass

"The Open World of Glass"; 31 min. color. A survey of the manufacture and many uses of different types of glass from window panes to electro-luminescent glass. (5)

"Engineering with Glass"; 28 min. color. An extensive study of the physical and chemical properties of glass showing its industrial uses. (6)

"The Nature of Glass"; 37 min. color. Covers the fundamental structure of glass, major types of glass and their properties. Suggested for college level or above. (6)

"Reaching for the Stars"; 13^ min. color. Tells the role glass has played in astronomical and space research. (6)

"Ancient Art—Modern Magic"; 10 min., color. Shows the development of the glassmaking art from the earliest times. (7)

"Sealed in Glass"; 27 min. Traces the history of glass containers from the ancient art of glassblowing to today's modern glass plant. (7)

"The Story Behind the Bottle"; 20 min., color. Describes how glass is made in modern glass plants. (7)

"From Glass to Fiberglas"; 13 min., color. General film which shows the historical as well as modern multiple usages of Fiberglas materials. (8)

"A Moment in History"; 10 min., color. Shows how Fiberglas was used in the Apollo 11 mission. (8)

"This is Fiber Glass"; 13*y₂* min., color. See the intricate processes that bring about this incredible material and its great variety of uses. (9)

Refractories & Structural Clay

"Steel by Stopwatch"; 24 min., color. Shows steelmaking by oxygen blast furnaces which are capable of producing more steel in less time than conventional methods. (9)

"The Belden Brick Plant"; shows kilns, furnaces, fuels, structural clay, ceramic equipment. (10)

"Automation at Globe Refractories"; Shows kilns, furnaces, fuels, refractories, and ceramic equipment. (10).

"The Milliken Brick Plant"; shows kilns, furnaces, fuels, structural clay, and ceramic equipment. (10)

"Ceramic Fuel Fabrication Development for PRTR"; 26*4 min., color. This film gives a detailed technical explanation of three processes developed by Hanford Laboratories for the fabrication of UO_2 fuel elements. (11)

"Refractories — Nucleus of Industry"; 29 min., color. A general story of refractories and their use with an emphasis on the manufacture of basic refractories and research. (12)

"Building Dreams"; 25 min., color. Tells story of man's use of clay from ancient times to today. Shows manufacturing and use of structural clay products. (14)

Porcelain Enameling

"Everything Under Control"; 30 min., 35 mm., color. Manufacturing of porcelain enamel and glaze frit in a large commercial frit plant. (15).

"Porcelain Enamel: Versatile Sheath for Metal"; 15 min. color. Illustrates the design potential and problem-solving capabilities of porcelain enamel. (16)

Others of Interest

"Returning From the Moon"; 2*Sy₂* min. Explores the problem of getting the Apollo command module safely back through the atmosphere to earth. Explains the problems of guidance and heating and the manufacturing process for the ablative heat shield. (17)

"Ceramics in Space"; *19y₂* min., color. Using ceramics as a typical field of scientific study the film shows how a graduate student develops the academic discipline needed to conduct original research. (17)

"Heat and Its Control"; 20 min. The film traces the history

of heat and its utilization. The film also covers the varied uses of insulating materials. (18)

"Asbestos ... A Matter of Time"; 20 min., color. By clever animation and effective photography, this film covers the geological formation, modern production methods and the varied uses for this unusual mineral fiber. (18)

"Lasers Unlimited"; 10 min., color. Shows uses of lasers in the fields of science, industry and medicine. (3)

Distributors

Films listed here are to be ordered from the following sources:

(1) Norton Company; Advertising and P.R. Dept.; Audio-Visual Services; Worcester, Mass. 01606.

(2) Tektronix, Inc.; P.O. Box 500, Beaverton, Ore. 97005.

(3) Southwestern Bell Telephone Co.; Room 1141; 100 N. 12th Blvd.; St. Louis, Mo. 63101.

(4) Electronic Products Div.; Corning Glass Works; Raleigh, N. C. 27602.

(5) Association Films, Inc.; 561 Hillgrove Ave.; La Grange, Ill. 60525.

(6) Public Relations Dept.; Corning Glass Works; Corning, N. Y. 14830.

(7) Armstrong Cork Company; Lancaster, Pa. 17604.

(8) Owens-Corning Fiberglas Corp.; Merchandising Department; One Levis Square; Toledo, Ohio 43601.

(9) Modern Talking Picture Service; 1212 Ave. of the Americas; New York, N. Y. 10036.

(10) Swindell-Dressier Co.; 441 Smithfield St.; Pittsburgh, Pa. 15222.

(11) Ruth Jones; Information Office; U. S. Atomic Energy Commission; Chicago Operations Office; 9800 South Cass Ave.; Argonne, Ill. 60439.

(12) Harbison-Walker Refractories Co., Two Gateway Center; Pittsburgh, Pa. 15222.

(13) Kaiser Refractories Div., Kaiser Aluminum & Chemical Corp.; 300 Lakeside Dr.; Oakland, Calif. 94604.

(14) Clay Products Institute; 1750 Old Meadow Rd.; McLean, Va. 22101.

(15) Pemco Ceramics Group, Glidden-Durkee Div.; SCM Corp.; 5601 Eastern Ave.; Baltimore, Md. 21224.

(16) Porcelain Enamel Institute Inc.; 1900 L Street, N.W.; Washington, D.C. 20036.

(17) NASA, Code FAD, Public Relations Dept.; Washington, D.C. 20546.

(18) Motion Pictures; Bureau of Mines; 4800 Forbes Ave.; Pittsburgh, Pa. 15213.

Nuclear Division Committees, 1970-71

J. Lambert Bates of Battelle/Northwest, chairman of the Nuclear Division, has announced committee appointments for the current year as follows:

Papers and Program: W. Richard Jacoby, chairman, Westinghouse Electric Corp.: Robert J. Beals, Chas. Taylor Sons Co.; Phillip L. Farnsworth, Battelle Memorial Institute; and T. Gordon Godfrey, Jr., Oak Ridge National Laboratory.

Membership: Danton L. Paulson, U.S. Bureau ofMines.

Rules: Cameron N. Craig, General Electric Co.

Classification, Nomenclature and Standards: John M. Kerr, Babcock & Wilcox Co.

Nominating: Joseph Handwerk, Beckwith CarbonCorp.

Research: Alexis I. Kaznoff, General Electric Co.; A. N. Holden, Westinghouse Electric Corp., Astronuclear Lab.: William M. Pardue, Battelle Memorial Institute; and E. Thomas Weber, Battelle/Northwest.

SLIDE OPERATOR

Slide Operator — The fellow, who, after the speaker has told him how he wants his slides mixed up, proceeds to mix them up in his own way.

Structural Clay Products Division Committees Appointed

Sherwood E. Patek, chairman of the Structural Clay Products Division, has appointed committees for the current year. Mr. Patek, of Midland Brick & Tile Co., became Division chairman at the 72nd Annual Meeting. The committees:

Nominating: Emmett A. Lawless, Jr., American Olean Tile Co., chairman; Edward C. Saleeby of J. C. Steele & Sons Co.; Harold D. Emrich of Denver Brick & Pipe Co.

Rules: Robert R. Richards of Richards Brick Co., chairman; Llewellyn Wood of Chattahoochee Brick Co.

Membership: Walter A. Detamore of Chemical Products Corp., chairman; John H. Van Ravestein of J. C. Steele & Sons; William U. Milliken of Bowerston Shale Co.

Research: J. O. Everhart of Ohio State University,chairman.

Publications: Wayne E. Brownell of State University of New York, College of Ceramics at Alfred University, chairman.

Programs: Roger C. Stoen, Can-Tex Industries, Div. of Harsco Corp., chairman.

Basic Science Division Committees, 1970-71

Committee appointments for the Basic Science Division have been made by Ralph E. Carter of General Electric Research & Development Center, chairman of the Division.

Program Chairman: P. J. Jorgensen, Stanford Research Institute.

Rules: Lloyd Berrin, chairman, Bell Telephone Labs., Inc.; R. S. Gordon, University of Utah; and Raymond J. Bratton, Westinghouse Eelectric Corp.

1971 Ceramographic Exhibit: D. Lynn Johnson, Northwestern University.

Traveling Ceramographic Exhibit: Roland B. Snow, United States Steel Corp.

Editorial Advisory Board Representative: Robert J. Stokes (1972), Honeywell, Inc.

Research: Albert E. Paladino, chairman, Raytheon Co.; J. H. Westbrook, General Electric Research & Development Center; and Robert Ruh, Air Force Materials Lab.