

Movie Films for Ceramists

The Missouri School of Mines chapter of Keramos has again compiled a list of moving picture films of interest to ceramists. A number in parentheses following each listing indicates the distributor from whom the film can be obtained.

Most of the pictures can be obtained on loan, the only cost being for transportation.

Similar compilations of films on ceramic subjects have been compiled by the Keramos chapter of the Missouri School of Mines in past years, the most recent appearing in the June, 1952, issue of the CERAMIC BULLETIN on page 203.

T. J. Planje, chairman of the Department of Ceramic Engineering, said that this compilation has been a project of the entire chapter of Keramos, with Delbert E. Day organizing and expediting the work.

Abrasives

First Principles in Grinding; 16 mm, sound, B & W., 44 min, loan. Shows how abrasives are manufactured and how they are used. (3)

Manufactured Abrasives; 16 mm, sound, B/W, 24 min, loan. Various methods of manufacturing abrasives. (12)

Romance of Industry; 16 mm, sound, B/W, 40 min, loan. The invention of "Carborundum" silicon carbide, the development of the abrasive industry, how abrasives are manufactured and their many applications. (3) (5)

Art

Clay in Action; 16 mm, sound, B/W, 12 min, rental. Illustrates the steps in sculpturing a portrait. (15)

Colour in Clay; 16 mm, sound, color 12 min, rental. Portrays modern commercial pottery manufacture. (15)

Pottery Making; 16 mm, sound, B/W, 11 minutes, rental. Describes each step in the making of pottery by four different methods. (15)

The World of Mosaic; 16 mm, sound, color, 28 min, loan. Documentary film presenting the evolution of the art of mosaics in architecture. (1)

Cement

The Drama of Portland Cement; 16 mm, sound, color, 30 min, loan. The starring roles are played by giant machines, huge furnaces, and construction equipment. (13)

Chemistry & Physics

Colloids; 16 mm, sound, B/W, 11 min, rental. Clarifies the concepts of the colloidal state and portrays examples of different types of colloids. (15)

Decision for Chemistry; 16 mm, sound, B/W, 35 min, loan. Relates intriguing stories of discoveries in chemistry. (13)

Exploration With the High Temperature Microscope; 16 mm, sound, color, 22 min., loan. Story of the development of a high-temperature microscope. Shows crystals forming at temperatures up to 4700PF. (3)

Eye to the Unknown; 16 mm, sound, color, 33 min, loan. How the electronic marvel mass spectrometry solves problems in minutes for science and industry. (13)

Heat and Its Control; 16 mm, sound, B/W, 20 min, loan. Description of methods of heat transfer and various means of insulating. (12)

Molecular Theory of Matter; 16 mm, sound, B/W, 11 min, rental. Develops the theory that all matter consists of molecules in motion. (15)

This is Color; 16 mm, sound, color, 27 min, loan. The physics of color, explaining refraction, reflection, transparency, opacity, subtractive and additive mixtures. (13)

What is Electricity; 16 mm, sound, B/W, 20 min, loan. Presents fundamentals of electrical theory. (16)

Electronics

Applications of R. F. Induction Heating; 16 mm, sound, color, 15 min, loan. Shows advantages and success of R. F. heating. (16)

Crystal Clear; 16 mm, sound, color, 10 min, loan. The story of man made quartz crystals so vital in the telephone industry. (5)

The Transistor; 16 mm, sound, 10 min, loan. Shows how the transistor has taken the place of the old vacuum tube and its future uses. (5)

Voice Sentinel; 16 and 35 mm, sound, 16 min, loan. Describes how the quartz crystal serves as the controlling heart of the vast telephone and radio networks. (6)

Geology

Asbestos—A Matter of Time; 16 mm, sound, color 23 min, loan. (7)

Celite—The Story of the Diatom; 16 mm, sound, color, 33 min, loan. (7)

In the Beginning; 16 mm, sound, color, 28 min, loan. The Grand Canyon and what it tells us about the geological history of the world, with spectacular recreations of nature's three billion year drama. (13)

The Petrified River—The Story of Uranium; 16 mm, sound, color, 28 min, loan. Shows the mining and uses of uranium. (12)

Glass

Foam Glass—The Foremost Insulation; 16 mm, sound, color, 29 min, loan. Manufacture and application of cellular glass insulation. (11)

From the Old to the New in Glass Through Research; 16 mm, sound, color, 20 min, loan. Displays research and manufacturing scenes from almost every phase of the glass industry. (2)

Glass and You; 16 mm, sound, color, 20 min, loan. The story of glass from its beginning. (5)

Glass, Science and People; 16 mm, sound, color, 20 min, loan. The story of volumetric glass ware. (2)

In Glass Town U.S.A.; 16 mm, sound, color, 26 min, loan. A complete tour of the composite Owens-Illinois plant showing container, closure and carton manufacturing operations and Duraglas center packaging, research, and customer service facilities. (2)

Operation Installation; 16 mm, sound, color, 25 min, loan. Installation of glass blocks in building construction. (11)

Pyroceram; 16 mm, sound, color, 5 min, loan. (5)

Sand and Flame; 35 mm, sound, B/W, 20min, rental. The production of all kinds of glass. (4)

The Glass Center of Corning; 16 mm, sound, color, 29 min., loan. (5)

The Nature of Glass; 16 mm, sound, color, 30 min, loan. Available after June 1958. (5)

Raw Materials

Moving Mountains; 16 mm, sound, color, 27 min, loan. The fascinating story of materials handling from the methods of Antiquity to the fabulous mountain moving machines of the 20th century. (13)

Ohio and Its Mineral Resources; 16 mm, sound, color, 30 min, loan. Describes mineral deposits in Ohio. (12)

Oklahoma and Its Mineral Resources; 16 mm, sound, color, 29 min, loan. Describes mineral deposits. (12)

Refractories

Master of Fire—Servant of Industry; 16 mm, sound, color, 36 mm, loan. Modern manufacturing of fire brick. (10)

The GRA FCO Story—(The History of Refractories); 16 mm, sound, color, 27 min, loan. (9)

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White wares

Art of Keramos; 16 mm, sound color, 22 min, loan. The making of fine Franciscan dinnerware and the story of Ceramics. (1) (3)

Progress Through Research; 35 mm, sound, color, 14 min, loan. (8)

Story of a Spark Plug; 16 mm, sound, B/W, 22 min, loan. Forming, firing, glazing, and uses of spark plugs. (8)

The Making of Fine China; 16 mm, sound, color, 20 min, loan. Illustrates the methods of decorating and manufacturing fine table ware. (14)

The Story of the Modern Spark Plug; 16 mm, sound, color, 27 min, loan. (8)

Addresses of Distributors

(1) Modern Talking Picture Service, 4754 Woodward Ave., Detroit 1, Mich.

(2) Owens-Illinois Glass Co., 1700 N. Westwood Ave., Toledo 7, Ohio.

(3) The Carborundum Co., Public Relations Department, Niagara Falls, N. Y.

(4) General Motors Corp., Film Section, 3044 W. Grand Blvd., Detroit 2, Mich.

(5) Association Films Inc.

(a) Broad at Elm, Ridgefield, N. J.

(b) 1799 Stevenson Street, San Francisco 3, Calif.

(c) 561 Hillgrove Avenue, La Grange, 111.

(d) 1108 Jackson Street, Dallas, Tex.

(6) Western Electric Co., 195 Broadway, New York 5, N. Y.

(7) Johns-Manville Sales Corp., 7912 Bohomme Ave., Clayton, St. Louis, Mo.

(8) Champion Spark Plug Co., Toledo 1, Ohio.

(9) L. S. Koppel, 1520 Locust St., Philadelphia, Pa.

(10) A. P. Green, Fire Brick Co., Mexico, Mo.

(11) Pittsburgh Corning Corp., Research and Development Div., Port Allegany, Pa.

(12) U. S. Bureau of Mines, 4800 Forbes Street, Pittsburgh 12, Pa. (General Office)

(13) Modern Talking Picture Service, 3 East 54th St., New York 22, N. Y.

(14) United World Free Film Service, 542 South Dearborn St., Chicago 5, 111.

(15) Encyclopedia Britannica Films, Inc., 1150 Wilmette Ave., Wilmette, 111.

(16) Motion Picture Department, Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.

Pergamon Institute Organized

Announcement has been made of the formation of Pergamon Institute in Washington, D. C., and London. A non-profit foundation, it seeks to make available in English, the results of scientific research and development in the Soviet Union and other countries in the Soviet orbit. I. R. Maxwell is executive director. New York offices of the Institute are at 122 East 55th St.

Among the aims and purposes of the Institute are: to establish a translation panel of highly qualified translators; to encourage the teaching of Russian at higher institutions of learning; to translate and disseminate scientific literature printed in Russian and other Slavonic languages; to publish a series of monographs in English reviewing progress in broad areas of Soviet scientific activity; to publish a journal devoted to reporting translation work done anywhere in the world from Russian and other Slavonic languages into English; to compile and publish specialized dictionaries from and into Russian and the principal Slavonic languages for subjects where such dictionaries are lacking; to sponsor research into the organization of scientific information, mechanical systems for storing and retrieving information, and mechanical translation.

Indexes to Russian Publications

The Library of Congress has announced that the names of two of its monthly publications have been changed. The *Monthly List of Russian Accessions*, which is entering its 11th year of publication, becomes the *Monthly Index of Russian Accessions*. The *East European Accessions List*, published since 1951, becomes the *East European Accessions Index*.

This does not indicate a change in the editorial content of either bibliography. Each index gives in English a monthly account of new material in a variety of subject fields received by the Library of Congress and by other American research libraries. Subject as well as title guides are included.

Surface Coating for Glass Tubing

A new surface treatment for glass tubing has been developed by Kimble Glass Co., subsidiary of Owens-Illinois. The coating is invisible and increases resistance to breakage by reducing scratches and scuffs during manufacture and handling. Known as 15-101 surface lubricant, it does not affect the properties of the tubing. It is non-toxic and is readily soluble in water. It volatilizes without residue at temperatures in the range of 450°F. The new surface coating can be applied to tubing manufactured from KG-33 borosilicate glass, Kimble's new hard glass, as well as other standard glasses.

Pyroceram in Production Tank

A progress report on the new material, Pyroceram, indicates it is finding numerous applications and that many others are under investigation. Corning Glass Works, which a year ago announced the discovery of the new crystalline material, has published a leaflet to describe its properties, methods of fabrication, and to outline suggested uses.

One formula is now being produced in a continuous melting tank to manufacture tubing, rod, and sheet, as well as pressed and blown ware in numerous shapes. In a statement of policy the company has announced:

"In view of the critical heat cycles involved in the last stage of manufacturing Pyroceram, all heat-treating will be done by Corning.

"Pyroceram in its glassy or untreated state will not be sold, either as an end product or as a component."

Development work has formed Pyroceram into ball bearings, kitchen ware, laboratory equipment, pistons, aircraft structural parts, nose cones for missiles, architectural curtain walls, and numerous other applications.

"Our production of this material indicates it can be formed by any high speed glass manufacturing method," said William C. Decker, president of Corning Glass Works.

Tubing of Pyroceram, in various diameters and lengths up to ten feet, is being tested in heat exchangers, its thermal shock qualities permitting high temperature differentials.

