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142/science news/vol. 96/august 23, 1969

films OF THE WEEK

Listing is for readers' information of new 16mm and 8mm films on science, engineering, medicine and agriculture for professional, student and general audiences. For further information on purchase, rental or free loan, write to distributor.

HEARTS AND CIRCULATORY SYSTEMS.

16mm, color or b&w, sound, 13½ min. Demonstrates the circulatory systems of higher and lower animals and the function and operation of the heart, from simplest forms to the complex human heart. Among the sequences in the film are: live specimens of the beating hearts of a fish, frog, mouse and lobster; microphotography of capillaries in a rabbit's ear; time-lapse photography tracing the course of a dye solution to show capillary distribution; and other nerves controlling the rate of a tortoise's heart beat. Also shows the function of the heart's pacemaker. Audience: senior high, college. Purchase color \$162.50 or b&w \$81.25 from Coronet Films, 65 E. South Water St., Chicago, Ill. 60601.

HERITAGE OF THE PLAINS.

16mm, color, sound, 19½ min. The story of how four families have used special U. S. Department of Agriculture help—through the Soil Conservation Service and in cooperation with the region's soil and water conservation districts—in making land and income more stable and their environment more livable. Audience: general. For purchase or loan information, contact Motion Picture Service, U. S. Department of Agriculture, Washington, D.C. 20250.

INTENSIVE RESPIRATORY CARE—M-1628-X.

16mm, color, sound, 30 min. Presents an overview of an intensive respiratory care unit, with emphasis on the roles of doctor, nurse and laboratory technician in the diagnosis and treatment. Story is presented in dramatic form through short sequences showing the various treatments of actual patients, with a two-minute animated segment showing lung pathology and physiology. Audience: restricted to physicians, nurses, medical and nursing students, paramedical personnel. Purchase DuArt Film Laboratories, 245 W. 55th St., New York, N.Y. 10019, or free loan from National Medical Audiovisual Center (Annex), Station K, Atlanta, Ga. 30324.

LEONARDO DA VINCI.

16mm, color, sound, 50 min. The main theme of this film is Leonardo's legacy to science. From his work, it is known that he was an engineer, botanist, anatomist, military technician and inventor, as well as a painter and prophet. How did nature do it? This was the question he always asked himself, a question that grew out of his art and developed into his science. The film was written and narrated by Dr. Jacob Bronowski of the Salk Institute. Audience: high school, college. Purchase \$600 or rental \$60 from Peter M. Roebeck and Co., 230 Park Ave., New York, N. Y. 10017.

MAGNETISM: AN INVISIBLE FORCE.

Standard 8mm or Super 8mm, color, silent. Seven cartridge-loading films for the Technicolor projector on "Can Magnets Attract Through Some Materials?," "Where Is a Magnet The Strongest?," "What Happens When a Magnet Is Suspended And Free To Turn?," "How Do the Poles Of Magnets Affect Each Other?," "How Do You Make A Temporary Magnet?," "How Do You Make A Permanent Magnet?" and "What Happens When A Magnet Is Broken In Half?" Audience: intermediate grades, junior high. Purchase Standard 8mm \$112 or Super 8mm \$126 from Rand McNally and Co., P. O. Box 7600, Chicago, Ill. 60680.

MOLECULAR BIOLOGY: AN INTRODUCTION.

16mm, color, sound, 15 min. Molecular biology has emerged to dominate the life sciences and open up the new frontiers of biophysics and biochemical research. To measure and document this exploration into the molecular and atomic levels of the cell, technology has developed more refined and sophisticated research tools: the improved resolution of the electron microscope, the isolation of cell parts by ultracentrifugation, the separation capabilities of chromatography, the localization of autoradiography, and the sensitivity of liquid scintillation counting. Audience: general. Purchase \$46.74 from Geo. W. Colburn Laboratory, 164 N. Wacker Dr., Chicago, Ill. 60606, or free loan from AEC field libraries or from Audio-Visual Branch, Department of Public Information, U. S. Atomic Energy Comm., Washington, D. C. 20545.

THE POND, PART III: DISTRIBUTION OF ENERGY IN THE POND.

16mm, color, sound, 24 min. Explains the ways in which energy is transferred through the food chain of a pond. The process is illustrated through a wide variety of plants and animals. Audience: senior high, college. Purchase \$325 or rental \$26 from McGraw-Hill Films, Dept. DF, 330 W. 42nd St., New York, N.Y. 10036.

books OF THE WEEK

Listing is an editorial service for readers' information. For convenient purchase of any book listed or any U.S. book in print, remit retail price (we pay postage) plus 25c handling charge to Book Order Service, Science News, 1719 N St., N.W., Washington, D.C. 20036. Prices subject to publishers' changes. Be sure to include zip code in your address.

ABUNDANT NUCLEAR ENERGY:

Proceedings of Symposium, 1968—W. W. Grigorieff, Ed.—USAEC (CFSTI, CONF-680810), 1969, 352 p., illus., paper, \$3. Background papers and discussion of the production of basic chemicals, electro-winning of metals and metal refining, and productive uses of process heat.

AIRBORNE CAMERA:

The World from the Air and Outer Space—Beaumont Newhall—Hastings House, 1969, 144 p., 100 photographs, \$10. Historical account of the growth and development of aerospace photography, from balloon views by daguerreotype, photographs taken by kites, rockets and p.geons, to aerial surveying, weather satellite and Gemini photographs.

THE AMERICANS:

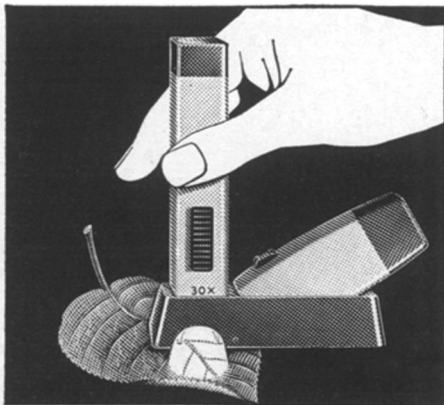
A Social History of the United States, 1587-1914—J. C. Furnas—Putnam, 1969, 1015 p., illus., \$12.95. A history without politics, concentrating on the people, their customs, attitudes and preferences, changes in homes, clothing, schooling and manners, the many details that went into the making of an American national character.

ARID LANDS IN PERSPECTIVE:

Including AAAS Papers on Water Importation into Arid Lands—William G. McGinnies and Bram J. Goldman, Eds.—Univ. of Ariz. Press, 1969, 421 p., illus., maps, \$18. Summarizes aspects of current research relevant for the inhabitants of the earth's warm arid and semi-arid areas.

AUDUBON CALENDAR 1970—

Introd. by Elvis J. Stahr—Ballantine Bks., 1969, 14 color plates, spiral-bound, \$3.95. Wall calendar promoting conservation of wilderness and the natural environment.



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