

Films of The Week

Listing 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.

CRACKING THE CODE OF LIFE. 16mm, color, sound, 22 min. Up-to-date presentation on the biological phenomena of the beginning, development and growth of the human body, with particular emphasis on the roles of DNA (deoxyribonucleic acid) and RNA. Audience: high school students and teachers, college students. Free loan from local units of the American Cancer Society.

ANTS: BACKYARD SCIENCE. 16mm, color, sound, 11 min. Shows, in extreme closeups, the anatomy of the ant, and how an ant colony lives. Audience: upper elementary, junior and senior high. Purchase \$125 from Film Associates, 11559 Santa Monica Blvd., Los Angeles, Calif. 90025.

The following series of films was produced by the American Meteorology Society. Audience: high school and college. Purchase at prices indicated from United World Films, 221 Park Avenue South, New York, N.Y. 10003.

ABOVE THE HORIZON. 16mm, color, sound, 21 min. Gives a birdseye view of the field of meteorology including status reports on current research on general circulation, numerical forecasting, hurricane reconnaissance, satellite meteorology, and weather modification. Aimed at stimulating interest and attracting potential students. Purchase \$165.

CONDENSATION NUCLEI. 8mm, color, silent, 4 min. Single concept film to show that water-droplet clouds, similar to those of the natural variety, may be formed if sufficient numbers of small liquid or solid particles, normally present in large quantities in the atmosphere as a result of such processes as combustion or the evaporation of salt spray, act as centers or nuclei on which water vapor can condense and thus permit the natural condensation process which gives rise to fog and cloud. Purchase \$16.

FORMATION OF RAINDROPS. 16mm, color, sound, 26 min. Beginning with the condensation of water vapor on water soluble nuclei in the atmosphere to form cloud droplets, film describes the two mechanisms known to be responsible for the growth of cloud droplets to the size of raindrops: coalescence and glaciation. Purchase \$165.

HOMOGENEOUS NUCLEATION AND THE DIELECTRIC NATURE OF ICE CRYSTALS. 8mm, b&w, silent, 4 min. Shows that the rapid cooling produced by the rupture and subsequent expansion of air from a small plastic bubble is sufficient to produce a cloud of ice crystals in the path of the escaping air, and that the change in the orientation of ice crystals that can be produced by an electric field. Purchase \$8.50.

NUCLEATION OF SUPERCOOLED CLOUDS. 8mm, b&w, silent, 4 min. Illustrates the process by which supercooled fog or cloud droplets can be transformed to ice crystals by seeding or nucleating the fog with particles of dry ice. Purchase \$8.50.

SEA SURFACE METEOROLOGY. 16mm, b&w, sound, 24 min. Discusses the role played by the oceans in the formation of rain and in particular with the transfer of large condensation nuclei and electrical charges from the sea surface to the atmosphere. Purchase \$105.

SOLAR RADIATION I: SUN AND EARTH. 16mm, color, sound, 18 min. Concerned with the concept that the energy radiated away to space by the earth must balance the energy received from the sun. Simplified explanations are given of the role played by the rotation of the earth in showing diurnal variations, and the tilt of the earth's axis of rotation with respect to the plane of its orbit in causing seasons. Purchase \$165.

New Ideas and Gadgets

New Ideas and Gadgets is an editorial service to readers; more information on items can be secured from the manufacturers.

Tree Identification Kit

This nature study aid, for home, school or camp, helps children from elementary school up learn to recognize various trees in their neighborhood and elsewhere by observing the leaf structure of the trees and coding their characteristics. The set includes code charts, 17 by 22 inches in size, with large easy-to-read lettering and illustrations of the various types and structures of leaves.

Nature Study Aids, Inc., 411 Dakota St.,
Red Wing, Minn. 55066



Radio-Light Survival Pack

Used in all Mercury and Gemini capsules, the components of this survival pack are now available in a portable unit small enough to fit in a flight jacket. The set combines a radio transmitter with a brilliant flashing strobe light. Its wavelength, a standard emergency frequency, is monitored by ships, the Coast Guard and commercial aircraft.

Scot Air Inc., 6451 Main St.,
Morton Grove, Ill. 60053

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Jack Trent, Marketing Manager, Sun-X
International Inc., 4125 Richmond Ave.,
Houston, Texas 77027

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BOOKS

MUSHROOMS AND FUNGI. Comprehensive list free. LEW's, 2510 Van Ness Avenue, San Francisco, California 94109.

WORKING WITH THE OSCILLOSCOPE AND SEMI-CONDUCTOR DEVICES, 48 pages—8 1/2" by 11"—Profusely illustrated—\$1.50. Electronic Publishing Co., Box 306 Astor Station, Boston, Mass. 02123

CAMPS

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MICRO ADS

FAIRCHILD SEQUENCE CAMERA \$75.00. Cost government \$650.00. Send 25¢ for our surplus optics-electronics 82 page catalog. Meshna, Nahant, Mass. 01908.

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