

films OF THE WEEK

CONTINENTS ADRIPT, A STUDY OF THE SCIENTIFIC METHOD. 16mm, color, sound, 15 min. Follows the theory of continental drift to what is now worldwide acceptance. It begins in 1912 with Alfred Wegener's hypothesis that at one time, all the continents were one: Pangaea. The film examines paleomagnetism and sea-floor spreading. It studies the first attempt in 1970 to precisely portray the breakup of the continents. Audience: high school, college. Purchase \$200 or rental \$20 from American Educational Films, Dept. SN, 331 N. Maple Dr., Beverly Hills, Calif. 90210.

DISCOVERING ELECTRONIC MUSIC. 16mm, color, sound, 23 min. Illustrates the physical basis of music and how it can be created and altered by electronic means. Shows the sound synthesizer and how it can create, envelope and filter sounds. Also shows the synthesizer imitating musical instruments, altering the sounds of a jazz group, and being used as a musical instrument itself. Computer-controlled music is explained, and a composition being created through a computer is shown. Audience: high school, college, adult. Purchase \$295 or rental \$15 from BFA Educational Media, Dept. SN, 2211 Michigan Ave., Santa Monica, Calif. 90404.

THE GARBAGE EXPLOSION. 16mm, color or b&w, sound, 16 min. A rapidly growing economy is producing equally rapid environmental pollution, with the vast increase in waste materials. This film investigates the nature, volume and composition of solid wastes, which include a growing proportion of less destructible paper, metals, plastic and glass. It presents advantages and disadvantages of our current disposal methods and shows possible long-range solutions. Audience: elementary, secondary, general. Purchase color \$200 or b&w \$102.50 from Encyclopedia Britannica Educational Corp., Dept. SN, 425 N. Michigan Ave., Chicago, Ill. 60611.

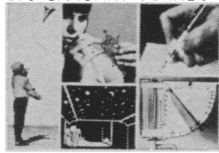
THE NATURE OF SOUND (second edition). 16mm, color or b&w, sound, 13 min. Illustrates the sources of sound, the path of sound waves, and sound as a form of wave energy. High-speed photography, demonstrations and original experiments show vibrating sound sources, sound moving through powder, air, metal and water. Transfer of sound energy from molecule to molecule is demonstrated with magnets, and sound wave form with an oscilloscope. The film pictures sound waves in terms of amplitude and frequency, which determines loudness and pitch; and quality which is determined by the shape of the wave. It also shows the Doppler effect, and how knowing the speeds at which sound travels through various media helps geologists and oceanographers measure great depths on earth and in the sea. Audience: junior, senior high school. Purchase color \$170 or b&w \$85 from Coronet Films, Dept. SN, 65 E. South Water St., Chicago, Ill. 60601.

WAVE MOTION: DIFFRACTION. 16mm, b&w, sound, 8 min. Demonstrates the phenomenon of optical diffraction by viewing an illuminated slit and altering its aperture; then examines in a ripple tank the nature of diffraction and the resulting interference fringes. Provides a basis for the qualitative study of diffraction and is a useful preliminary to the quantitative and theoretical development in advanced studies. Demonstrations prepared and conducted by L. Llowarch, Institute of Education, London University. Audience: high school, college. Purchase \$55 or rental \$5 from International Film Bureau, Dept. SN, 332 S. Michigan Ave., Chicago, Ill. 60604.

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.

KEEP PACE WITH SPACE AGE! SEE MOON SHOTS—LANDINGS, SPACE FLIGHTS, CLOSE-UP! AMAZING SCIENCE BUYS for FUN, STUDY or PROFIT

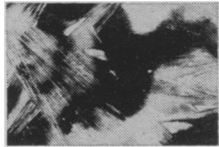
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Stock No. 41,086Q \$2.00 Ppd.

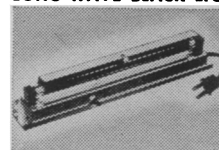
HELIUM BALLOONS MAKE A "BALL"



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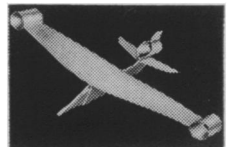
Stock No. P-41,260Q \$6.00 Ppd.

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