

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 listed.

AGE MINUS 60 DAYS. 16mm, color, sound, 16 minutes. Follows 3¼ pound baby from birth to going home; includes abnormalities and best care. Audience: Hospitals, medical students, nurses. Purchase for \$110 from Flagg Films, 6345 Fountain Ave., Hollywood 28, Calif.

THE BEGINNING. 16mm, color, sound, 16½ min. Follows a young woman through her first pregnancy. Audience: high school and up. Purchase for \$115 from Flagg Films, 6345 Fountain Ave., Hollywood 28, Calif.

CHOLERA TODAY—M-1012. 16mm, color, sound 8½ min. Documents cases of cholera at the Pakistan-SEATO Cholera Research Laboratory, illustrating symptoms and physiological reactions to treatment, and stressing need for immediate restoration and maintenance of an adequate circulation. Audience: physicians and allied personnel in medical schools, armed services, and public health. Free loan from Public Health Audiovisual Facility, Atlanta, Ga. 30333. Purchase from DuArt Film Laboratories, 245 W. 55th St., New York, N.Y. 10019.

DOING THE WORLD'S WORK. 16mm, color, sound, 17 min. Shows the contribution made by Caterpillar earthmoving and material-handling equipment around the world. Audience: general. Free loan from Caterpillar Tractor Co., Advertising Division, Peoria, Ill. 61611.

MAMMOGRAPHY TECHNIQUE—K-1162. 16mm (kinescope film), b&w, sound, 26½ min. Designed to teach radiologists the technical aspects of mammography—an important diagnostic aid in control and detection of breast cancer. Audience: restricted to individuals listed in the Directory of the American College of Radiology. Free loan (subject to restrictions noted above) from Public Health Service Audiovisual Facility, Atlanta, Ga. 30333.

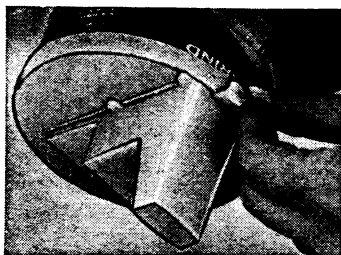
SILENT WORLD. MUFFLED WORLD. 16mm, color, sound, 28 min. Describes problems of speech, education, and living for the deafened, and various hearing impairments. Audience: civic, educational, voluntary and professional health groups. Free loan from Public Health Audiovisual Facility, Atlanta, Ga. 30333. Purchase from DuArt Film Laboratories, Inc., 245 W. 55th St., New York, N.Y. 10019. (Produced for Deafness Research Foundation and American Academy of Ophthalmology and Otolaryngology.)

VERBAL IMPAIRMENT ASSOCIATED WITH BRAIN DAMAGE—M-1112. Demonstrates how three syndromes of verbal impairment—aphasia, verbal apraxia, and dysarthria—can be differentiated by a careful analysis based on linguistic description. Audience: speech pathologists, medical and allied professions. Free loan from Public Health Service Audiovisual Facility, Atlanta, Ga. 30333. Purchase from Du Art Film Laboratories, 245 W. 55th St., New York, N.Y. 10019.

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OCEANOGRAPHY

First Civilian Vessel Navigates by Satellite

➤ A MAN-MADE satellite has replaced the celestial stars for modern-day sailors finding their way on the deep blue seas.

A three-masted oceanographic schooner, the Vema, has installed a satellite navigation system that accurately calculates the ship's position at all times at sea. Scientists aboard the Columbia University's research ship find the system is more precise than other navigational tools, including most land-based electronic signals and the sun and stars, according to Dr. Maurice Ewing, director of Columbia's Lamont Geological Observatory, Palisades, N.Y., which operates the Vema.

The system measures the Doppler frequency shift of the satellite's signals to indicate the satellite's position in orbit.

With the use of a computer aboard ship, the data are printed out for use in calculating an accurate navigation fix.

If the satellite system makes an error in location, it is measured in yards—not in miles, as with conventional navigation.

Ocean scientists have never been able to use celestial navigation with the precision and frequency necessary for their measurements, Dr. Ewing said.

Much oceanographic work is done far from shore, beyond the range of land-based electronic navigation systems.

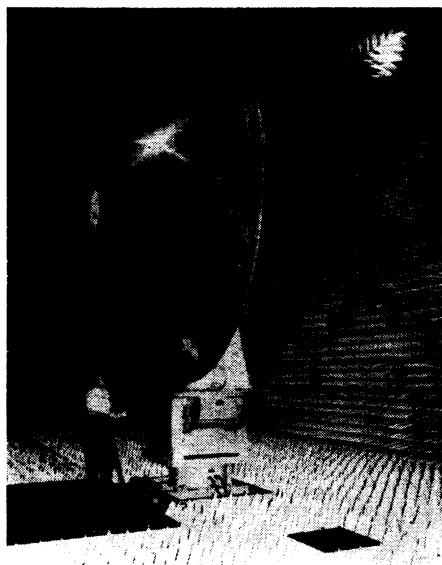
Bad weather and poor visibility hinder accurate navigation fixes.

The installation of the system on the Vema marks the first permanent use of satellite navigation on a civilian vessel.

Former experimental equipment, on loan from the U.S. Navy, was used as a model for the Vema's installation.

"I believe that the advent of the satellite navigation system marks the beginning of a new era in oceanography and in marine geophysics," said Dr. Ewing. "It has particular value in our gravity program, for in these studies inaccuracies of navigation have limited the accuracy of measurements."

Columbia scientists aboard the ship are now engaged in about 30 projects in the North Atlantic, making sediment thickness and gravity measurements, studying cores from the ocean bottom and performing other research work.



NASA

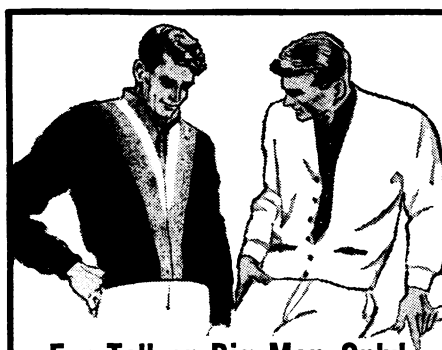
GIANT CONE—Disk-shaped capsule, built by the National Aeronautics and Space Administration's Langley Research Center, has its radar and recovery beacons checked out in special test chamber. The capsule containing a packaged test parachute will be carried by balloon to 130,000 feet, released and rocketed in the thin upper atmosphere.

MILITARY SCIENCE

Shillelagh Missile Given Army's Grade A

➤ THE U.S. ARMY'S potent Shillelagh guided missile has been designated Grade A. And just as with eggs, the just-awarded rating means that it is the best of its kind.

Designed to be used by tanks and other armored vehicles, the Shillelagh has been classified by the Army Materiel Command Technical Committee as "the most advanced and satisfactory for a specific requirement."



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