

Talent Hunt Tests On 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.

The acute shortage of scientists which prompted the Science Talent Search in the early days of World War II has not been eliminated. On the contrary, the intervening years have brought the greatest scientific developments ever known. This has caused the shortage of research scientists to continue in spite of ever-increasing numbers of talented students entering scientific disciplines.

The Science Talent Search, now in its 26th year, is testing over 25,000 high school seniors throughout the U.S. this month in an effort to identify those seniors with the greatest potential of filling these vital research positions in the future.

The test, designed to measure ability to think and reason along scientific lines, is given in public, private and parochial schools during a two-hour session. In addition to the test, the applicant must write a report of a scientific project on which he has been working, and a personal data blank must be filled in by the student and school officials. All materials must reach Science Service headquarters in Washington, D.C., by midnight, Dec. 27.

The Search has proven its ability to spot creative potential at the high school level, E. G. Sherburne Jr., director of Science Service, announced. Science Service conducts the Science Talent Search for the Westinghouse Science Scholarships and Awards. He said that about 10 percent of the students fulfilling all the entry requirements will be named to an honors group and will be recommended to colleges and universities for admission and scholarship grants. From the honors group, 40 top winners will be selected to come to Washington for the Science Talent Institute, March 1 through 6.

During the Institute, the 40 winners will be interviewed and their potential ability further evaluated by a board of judges to determine the distribution of \$34,250 in science scholarships and awards provided by the Westinghouse Educational Foundation of the Westinghouse Electric Corporation. The Science Talent Search is approved by the National Association of Secondary School Principals.

ASTRONOMY

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ABORTION AND THE LAW: 16mm, b&w, sound, 54 min. CBS Reports documentary focusing on the legal, moral, social and psychological aspects of abortion in the United States. Purchase \$250 or rental information from Carousel Films Inc., 1501 Broadway, New York, N.Y. 10036.

NEW DIRECTIONS IN MODERN RAILROADING: 16mm, color, sound, 27 min. Tells the story of technological advancement and modernization of railroad operations with particular attention to piggybacking, the auto-rack train, and the unit train. Audience: business and industry, schools, general. Free loan after January 1 from Modern Talking Service, 1212 Avenue of the Americas, New York, N.Y. 10036. (Produced for Association of American Railroads).

RADIOISOTOPE SCANNING IN MEDICINE: 16mm, color, sound, 16 min. Explains the methods of organ scanning, and shows examples such as scanning of thyroid and lung, chest, brain and liver. Audience: college and above. Purchase \$180 from Handel Film Corporation, 6926 Melrose Ave., Hollywood, Calif. 90038. Free loan from AEC regional film libraries or Audio-Visual Branch, Division of Public Information, Atomic Energy Commission, Washington, D.C. 20545.

RETURN TO BIKINI: 16mm color, sound 23½ min. Describes survey to determine the condition of Bikini and Eniwetok atolls since the last nuclear test detonations, and the rapid recovery from biological damage. Audience: high school and college. Purchase \$97.00 from Motion

Picture Service, Department of Agriculture, Washington, D.C. 20250. Free loan from AEC regional film libraries or Audio-Visual Branch, Division of Public Information, Atomic Energy Commission, Washington, D.C. 20545.

THE TIDAL ZONE: 16mm, color, sound, 14 min. Depicts interrelationships of the flora and fauna who live in the estuary where tidal movements induce a wide variation in the salinity of the water, and how the inhabitants of the tidal zone cope with their environment. Audience: high school, college. Purchase information from United World Films, 221 Park Ave, New York, N.Y. 10003.

TIME PULLS THE TRIGGER. 16mm, color, sound, 23 min. Shows how carbon monoxide, one of the poisons in tobacco smoke, affects red blood corpuscles, how nicotine causes smaller blood vessels to constrict, and how smoke irritates the cells in the walls of the air passages of the body. Audience: general. Purchased from American Temperance Society, 6840 Eastern Ave., NW, Washington, D.C. 20012. Free loan from Association Films Inc., 600 Grand Ave., Ridgefield, N.J. 07657 or other regional offices.

VOLCANOES OF MEXICO: 16mm, color, sound, 8 min. Shows the physical and geological factors that create volcanic eruptions, and the relationship of the people who return to live under the shadow of the volcano. Audience: intermediate grades, high school. Purchase information from United World Films, 221 Park Avenue South, New York, N.Y. 10003.

PEDIATRICS

Nature's Blanket Protects Baby

Babies never shiver and science has found the reason why.

A "thin sheet of brown adipose (fat) tissue between the shoulder blades," and small tissue deposits behind the breastbone and all the way down the spine have been identified by two British pediatricians.

Dr. David Hull and his recently deceased colleague Dr. Michael Dawkins showed in studies with rabbits that when the fatty layer is surgically removed from bunnies, they completely lose their ability to keep warm.

In baby rabbits, the fatty tissue accounts for up to six percent of the total body weight at birth.

Infant rabbits subjected to freezing conditions normally step up oxygen consumption three times. Without the brown, iron-rich fat tissue, no increase in oxygen consumption occurs. The advantageous increase in oxygen intake in tissue warms the bunny and the baby.

The adipose cells are also stuffed with fat globules, the doctors found. Fat is the most compact and efficient energy fuel there is, so such cells are ideal emergency heat suppliers.



With artificial satellites already launched and space travel almost a reality, astronomy has become today's fastest growing hobby. Exploring the skies with a telescope is a relaxing diversion for father and son alike. UNITRON's handbook contains full-page illustrated articles on astronomy, observing, telescopes and accessories. It is of interest to both beginners and advanced amateurs.

CONTENTS INCLUDE:

Observing the sun, moon, planets and wonders of the sky • Constellation map • Hints for observers • Glossary of telescope terms • How to choose a telescope • Astrophotography

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