

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.

THE COMMUNICATIONS EXPLOSION. 16mm, color, sound, 30 min. Reviews the new technologies that can turn the world of the 21st century into a "global village": communications satellites, microminiaturized circuits, and lasers. Audience: general. Free loan from Modern Talking Picture Service, 1212 Avenue of the Americas, New York, N. Y. 10036. (Produced by CBS-TV).

FROM BALLOON GONDOLA TO MANNED SPACECRAFT. 16mm, color, sound, 27 min. Historical record of balloon flights emphasizes the early development and testing of environmental control systems, with newsreel film coverages describing these events. Audience: general. Free loan from NASA Manned Spacecraft Center, Public Affairs Office, AP 2, Houston, Texas 77058.

THE GRAND CANYON. 16mm, color, sound, 26 min. Shows that a living river is vital to keeping the Canyon alive, and that the two proposed Grand Canyon dams would destroy much of what people love about it. Audience: general. Purchase \$285 from Sierra Clubs Films, c/o Association Films, 25358 Cypress Avenue, Hayward, Calif. 94544.

SANDIA SPINOFF. 16mm, color, sound, 15 min. Demonstrates how high reliability requirements for the U. S. nuclear weapons program have resulted in scientific developments which have peaceful "spinoff" applications. Examples shown include: laminar air flow which creates ultra-clean environments, ion plating to create extremely tight bonds between previously incompatible metals, and a means of using computers to prepare printed circuit layouts. Audience: general. Free loan from Atomic Energy Commission field libraries or Audio-Visual Branch, Division of Public Information, Atomic Energy Commission, Washington, D. C. 20545.



Are you the type to fill an interesting job as a Red Cross volunteer? Call your local chapter. See whether it is shorthanded.
HELP US HELP 

GREENLAND

Catastrophic climate

Fluctuations in climate interact drastically on Greenland's animal life, with effects that often have been catastrophic for the islanders.

Greenland's history is a tale of periods of well-being alternating with periods of starvation. Whole cultures have died out as the animals on which they depended either died out themselves or migrated.

It is not increasing cold, but warmth that has caused the trouble, says Dr. Christian Vibe, Danish head of Zoological research in Greenland. When temperature rises the ice in Baffin Bay and the Greenland Sea breaks up, drifts south and melts. When this happens the sea is left open, the climate becomes damp and resultant heavy falls of snow mean that the musk ox, reindeer, hares and other animals can no longer find the mosses on which they live. Melting ice also causes pockets of fresh water which drive away seals, while the whales which during the cold periods were forced to make their way along the coasts became free to swim in open waters where the Greenlanders can not catch them.

In the past cold has always meant stability, and the Greenlanders could rely on their meat supplies. Warmth meant instability and hunger. The last stable cold period was 1810 to 1860. From then until 1910 the ice in Baffin Bay and the Greenland Sea broke up every year. Since then Greenland waters have been relatively warm, but the Greenlanders have nevertheless prospered because cod came to Greenland waters.

The indications are now, however, that a new cold period is on the way. But not the traditional well-being that used to go with it.

On the presumption that the fish would stay in Greenland waters, Denmark has invested large sums of money in Greenland in an effort to make the population of 37,000 economically self-supporting by 1980 on the basis of a modern fishing industry. But if the cold returns the fish will vanish—and the modern Greenlanders, who now live for the most part in urban industrial townships instead of in tiny hunting settlements as before, cannot live off hunting as their ancestors did.

Since the introduction of the cod-based economy, Greenlanders have had to learn the uses of money; their chief crop is now for export rather than for covering all the needs of subsistence as the animals, particularly the seals, once did. Whether they could resume the old ways is, largely, an open question.

H. J. Barnes

TWO CONTRIBUTIONS to scientific thought

from Notre Dame Press

A HISTORY OF VECTOR ANALYSIS

The Evolution of the Idea of a Vectorial System

Michael J. Crowe

Today, vector analysis is one of the most important mathematical techniques used in physical science. In this book, which is the first large scale study of the history of vector analysis, Professor Crowe provides a detailed account of the intricate evolution of the modern system of vector analysis.

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PHILOSOPHY and CYBERNETICS

Edited by Frederick J. Crosson and Kenneth M. Sayre

A study of the future impact of artificial intelligence on the human mind. The essay in Philosophy and Cybernetics measures the capacities of man and machines as well as the increasingly close working relationship between the computer and the human mind.

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