

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.

BUILD A BETTER MOUSETRAP. 16mm, color, sound, 24 min. Tells of the vital role American inventors have played in the progressive evolution of today's technologically complex world, and of the contributions some of America's greatest inventors such as Cyrus McCormick and Thomas Edison have played. Audience: general. Purchase \$300 from Text-Film Division, McGraw-Hill Book Company, 327 West 41st St., New York, N.Y. 10036.

HORIZONS UNLIMITED. 16mm, color, sound, 24 min. Designed to interest young men and women in dietetic careers, and to acquaint the general public with the role of the dietician. Audience: youth group meetings, high schools, colleges, general. Free loan from many local gas companies, or through American Gas Association, 803 Third Ave., New York, N.Y. 10016.

VERBAL IMPAIRMENT ASSOCIATED WITH BRAIN DAMAGE-M-1112. Shows adult brain damaged patients during testing, emphasizing the need for a systematic replicable method for identifying and sorting out symptoms in research and treatment of verbal impairments secondary to brain damage. Audience: speech pathologists, medical and allied professions. Purchase from DuArt Film Laboratories, 245 West 55th St., New York, N.Y. 10019. Free loan from Public Health Audiovisual Facility, Atlanta, Ga. 30333.

WHAT IS AUTOMATION? 16mm, color and b&w, sound, 14 min. Shows an automated factory where a few skilled workers supervise machines, and discusses how as production becomes more automated, the demand for workers skills to supervise automated factories will greatly increase. Audience: upper elementary, junior-senior high. Purchase color \$155 and b&w \$80 from Film Associates, 11559 Santa Monica Boulevard, Los Angeles, California 90025.

Note: the following films are a part of THE POPULATION PROBLEM series produced for National Educational Television. Purchase price, \$200 for color prints, \$125 for b&w. Rental, \$7.65 for color prints, \$5.40 for b&w. From NET Film Service, Indiana University, Audio-Visual Center, Bloomington, Ind. 47401.

ANSWER IN THE ORIENT. 16mm, color and b&w, sound, 30 min. Traces history of the population growth of Japan, and tells how population has been controlled by a variety of means. Audience: general.

BRAZIL: THE GATHERING MILLIONS. 16mm, b&w, sound, 30 min. Documents the penalties which a people must pay when population grows at a faster rate than the means of sustaining life. Audience: general.

THE EUROPEAN EXPERIENCE. 16mm, b&w, sound, 30 min. Shows the history and influence on family size in Europe, and how moderate population growth has been one of the factors contributing to prosperity in that continent. Audience: general.

THE GIFT OF CHOICE. 16mm, b&w, sound, 30 min. Discusses some of the deficiencies of methods presently available for limiting fertility, and describes research now being conducted on the mysteries of the reproductive process. Audience: general.

INDIA: WRITINGS IN THE SAND. 16mm, color and b&w, sound, 30 min. Explains how the burgeoning population of India has complicated the country's capacity to grow enough food to feed its people, and what is being done to educate the public to accept family planning. Audience: general.

USA: SEEDS OF CHANGE. 16mm, b&w, sound, 30 min. Analyzes the population trend in the United States from Colonial times to the present, and the many problems affected by these trends. Audience: general.

MICROBIOLOGY

Anaerobic Chamber For Bug Studies

For years men have known about a breed of bacteria that lives without oxygen, but these anaerobic bugs have eluded scientists' attempts to isolate and examine them in very great detail by dying almost immediately in the presence of oxygen.

So scientists have now built an oxygen-free biological research chamber in which men can work and anaerobes can live and be studied by simple microbiological techniques. Within the next few weeks investigation will begin in Dr. Earl Stadtman's laboratory at the National Heart Institute, Bethesda, Md., where the quarter-million dollar chamber is ready for operation. It is the world's first and only such laboratory for biological research, its designers believe, and is fully equipped with refrigerators, microscopes and other necessary gear. It is not a vacuum, but is filled with nitrogen in which the bacteria can live.

Michael Poston and others who will work with him in the lethal nitrogen atmosphere are spending their time these days just acting out their parts in the prized steel and glass apartment. Only two men can be inside at any one time and they have to learn how to maneuver through the chamber's small rooms while trailing behind them the long, sinuous umbilical cords of their life support systems. "It's like learning the minuet," Mr. Poston says. A third man must monitor from outside the chamber.

Anaerobic bacteria are as prevalent and important to biological activity as aerobes or oxygen breathing bugs, Mr. Poston points out, but little is known of the way they go about getting energy. He expects that because there is a certain unity of function in nature, anaerobes will be useful models for studying energy metabolism in other living systems. It is possible, too, he says, that science may turn up more anaerobes than are currently known. Anaerobes have been isolated from as diverse environments as mud, soil and intestinal tracts.

Studies of these bugs that die when oxygen is around may give clues to the nature of a number of compounds that decompose when exposed to air. They are also of interest in relation to enzymatic activity. Oxygen is known to inhibit the functioning of certain enzymes, including those derived from pyruvate which is a fundamental link in protein and carbohydrate metabolism in cells.



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Chicago Man Reveals How to Make Money -writing short paragraphs



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