

films OF THE WEEK

THE ACTIVE SUN. 16mm, color, sound, 27 min. Provides evidence that the sun is still a source of mysteries as well as a source of limitless energy, and shows, through photographs and animation, how the features of the sun change as it becomes more or less "active." The importance and characteristics of sunspots are discussed, and we see how solar radiations and activity are directly associated with the location, size and number of sunspots. We also see how man is beginning to obtain enough reliable data about the sun so that he can propound theories which are worth further investigation. Audience: elementary school, high school, adult.

Circle No. 121 on Reader Service Card

THE LITTLE PUSHER. 16mm, color, sound, 25 min. An actual NBC-TV "Dragnet" program, the film dramatizes the serious problem of drug abuse in schools. Story is about the plight of a 12-year-old boy, Tim, who smoked marijuana and took amphetamines and barbiturates. In addition, he sold drugs to his classmates. Despite this, the principal of the school and teachers believed that there was no problem of drug abuse in the school. As the film suggests, the first step is to know what the problems are. At that point, corrective action can be taken at the local level. Film alerts viewers to the gravity of the potential or actual problem, and points out ways of combating what may otherwise become a national contagion. Audience: school staffs, parents, students.

Circle No. 122 on Reader Service Card

TURBULENCE. 16mm, color, sound, 28 min. Illustrates many of the important aspects of turbulence: effects of Reynolds number on inception, increased pressure drop in pipe-flow, efficient mixing, turbulent transport of momentum and scalar properties, Reynolds stress, influence of Reynolds number on fully developed turbulent flows, turbulent energy cascade, isotropy and similarity of small-scale motions in diverse turbulent fields and effects of buoyancy. Audience: university level fluid mechanics students, industry, some high school.

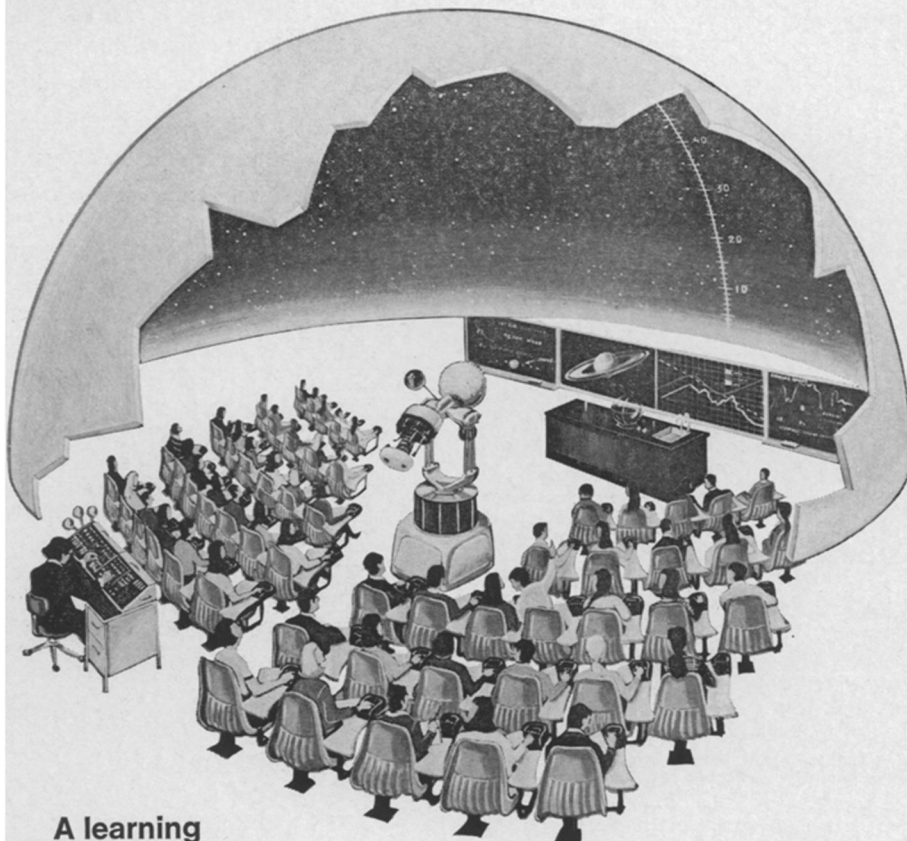
Circle No. 123 on Reader Service Card

EULERIAN AND LAGRANGIAN DESCRIPTIONS IN FLUID MECHANICS. 16mm, b&w, sound, 27 min. The two principal ways of describing fluid motion are illustrated using computer-generated displays of displacement, velocity, and acceleration fields for several simple flows. The physical relationship between the two descriptions, and the possibility of choosing an Eulerian framework, in which the velocity is steady, are demonstrated. The physical meaning of the material derivative is illustrated for both scalar and vector fields. Audience: university students of fluid mechanics, some senior high schools.

Circle No. 124 on Reader Service Card

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 or circle the appropriate number on the Reader's Service Card.

Spitz planetarium classroom



A learning environment... that generates student excitement... challenges faculty imagination, and builds community involvement.

The Spitz planetarium classroom... a medium for "massaging" the student intellect... a medium in which the environmental effects are limited only by the instructor's imagination.

Students become involved with a panorama of impressions from the planetarium instrument, rear screen projectors, chalk boards,

lab table and motion picture, slide and special effects projectors. Or, attention can be concentrated on a single audio-visual presentation. Each of the projectors, the room and special effects lighting and stereo sound can be controlled from a desk console.

Instantaneous and private communication between each stu-

dent and the instructor through an electronic responder system closes the learning feedback loop so that the instructor moves forward at a rapid rate, always certain that the class is with him. Not fantasy for tomorrow... but available today, this classroom is being installed across the country.

*To paraphrase Marshall McLuhan

For information write to... **SPITZ Laboratories, Inc., CHADDS FORD, PA. 19317**

A DIVISION OF MCGRAW-HILL

CREATING LEARNING ENVIRONMENTS FOR BETTER EDUCATION

See the SPITZ exhibit—National School Boards Association Convention
San Francisco—April 11-14

Circle No. 130 on Reader Service Card

SCIENCE NEWS

Copyright © 1970 by Science Service, Inc., 1719 N. Street, N.W., Washington, D.C. 20036. Republication of any portion of SCIENCE NEWS is strictly prohibited.

SUBSCRIPTION DEPARTMENT
231 WEST CENTER STREET
MARION, OHIO 43302

Subscription rate: 1 yr., \$7.50; 2 yrs., \$13.50; 3 yrs., 19.50. Special trial offer: 39 weeks, \$3.97. Single copy, 25 cents. \$1.00 per year for foreign postage. Change of address: Three weeks' notice is required. Please state exactly how magazine is to be addressed. Include zip code. Printed in U.S.A. Second class postage paid at Washington, D.C. Established as Science News Letter @ in mimeograph form March 13, 1922. Title registered as trademark U.S. and Canadian Patent Offices. Indexed in last Science News of June and December, in Reader's Guide to Periodical Literature, Abridged Guide and the Engineering Index. Member of Audit Bureau of Circulation. UNSOLICITED MANUSCRIPTS will not be returned unless accompanied by a stamped, self-addressed envelope.

Published every Saturday by SCIENCE SERVICE, Inc., 1719 N. St., N.W., Washington, D.C. 20036. North 7-2255. Cable Address: SCIENSERV.

ADVERTISING STAFF

Director: EARL J. SCHERAGO Advertising Sales Manager: RICHARD L. CHARLES
Address all advertising to Sherago Associates, 11 West 42nd St., New York, N.Y. 10036.

Sales: New York, N.Y. 10036: Robert S. Bugbee, 11 W. 42 St. (212-PE 6-1858); Scotch Plains, N.J. 07076: C. Richard Callis, 12 Unami Lane (201-889-4873); Medford, Mass. 02052: Richard M. Ezequelle, 4 Rolling Lane (617-444-1439); Chicago, Ill. 60611: Herbert L. Burkland, Room 2107, 919 N. Michigan Ave. (312-DE 7-4973); Beverly Hills, Calif. 90211: Winn Nance, 111 N. La Cienega Blvd. (213-657-2772).