

SCIENCE FAIR HEADQUARTERS

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IT'S HERE—

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Stock No. 70,946Q -----(Intra. price)-----\$16.00 Ppd.

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Create cosmic ray showers in the cloud chamber—see atoms explode with the spintharoscope—check ionization and radioactivity of every day materials. These are just a few of the fascinating projects possible with this amazing 43 part kit. Contains everything needed to construct your personal atomic energy laboratory. Absolutely safe. Includes atomic cloud chamber, projector, illuminator, electroscope, spintharoscope. 22 page instruction booklet with suggested experiments. Ideal gift to stimulate students' scientific interest.
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films OF THE WEEK

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.

BLACK SWALLOWTAIL BUTTERFLY (Pupal Molt). 8mm Standard or 8mm Super, color, sound, 3 1/2 min. After the caterpillar has fastened and suspended itself from the twig, it remains in this position for about a day and a half. It then begins its molt to become a pupa. Audience: high school, college. Purchase 8mm Standard for \$13 or 8mm Super for \$14.50 from Modern Learning Aids, 1212 Avenue of the Americas, New York, N.Y. 10036.

CLEANLINESS AND HEALTH. 16mm, color or b&w, sound, 11 min. Shows through photography how germs multiply if provided with food, warmth and moisture, and illustrates measures we can take to prevent infections. Explains role of germicides, and methods of maintaining cleanliness for clothing, skin, hair, nails and teeth. Audience: intermediate grades. Purchase color \$120 or b&w \$60 from Coronet Films, 65 E. South Water St., Chicago, Ill. 60601.

AN INTRODUCTION TO NURSING IN A CORONARY CARE UNIT—M-1461. 16mm, color, sound, 26 min. In a compact, specially designed coronary care unit, today's heart patients receive specialized nursing care supplemented by electronic nursing devices which signal the possible need for corrective measures. Shows how a nurse can electronically monitor each patient and become alerted immediately to impending emergency situations. Audience: hospital and nursing personnel, student nurses. Purchase from DuArt Film Laboratories, 245 W. 55th St., New York, N.Y. 10019 or free loan from National Medical Audiovisual Center (Annex), Chamblee, Ga. 30005, Attention: Film & Distribution.

LAND AND WATER CRABS. 16mm, color, sound, 19 min. The multiplicity of size, structure and adaptations of land and water crabs is communicated with close-up photography and microscopy of many species. The crab's primary method of defense (hiding) is illustrated, as is the process of shell removal, courtship, reproductive habits and development of young into mature adults. Audience: elementary, high school. Purchase \$225 from Fleetwood Films, 34 Macquesten Parkway South, Mount Vernon, N.Y. 10550.

NEWTON'S EQUAL AREAS. 16mm, color, sound, 8 min. Animated film based on Newton's simple geometrical proof of the law of areas for any central force. Follows Newton's proof (in the Principia) that if all of the forces act toward a fixed point, the line connecting the moving body and that point sweeps out equal areas in equal times. Audience: high school and college physics and geometry. Purchase \$100 from International Film Bureau, 332 S. Michigan Ave., Chicago, Ill. 60604.

TJURUNDA. 16mm, color, sound, 20 min. Lives and traditions of an Australian aboriginal tribe (companion film to "Walkabout"). Audience: general. Rental \$5.00 or purchase \$170.00 from Films Officer, Australian News and Information Bureau, 636 Fifth Ave., New York, N.Y. 10020, or Western States, Press and Information Officer, Australian Consulate-General, 350 Post St., San Francisco, Calif. 94108.

LETTERS

to the editor

Ultimate solution

Sir:

Missing from the technical literature as well as from your discussion of transplants (SN: 3/2 p. 213) was the method that will probably become the ultimate solution for the problems of organ transplants. This will involve the development of a fetus from the cells of each individual and a freezing of its development to permit it to be used for spare parts. This approach will avoid the immune response since tissues of the same genetic composition are used.

Differentiation of plants from one or a few somatic cells is becoming almost routine at present. Differentiation of animals will be more complex; but the development of the complete organism should be much simpler than differentiation of specific organs.

Roy U. Schenk
Research Associate
Dept. of Plant Pathology
University of Wisconsin
Madison

Higher parthenogenesis

Sir:

You carried a short news item entitled "Male Lizards Unneeded" (SN: 12/30/67 p. 633). This article stated that "lizards (Cnemidophorus tesselatus) are the highest form yet discovered" in which parthenogenetic development went to full term. We wish to inform you that parthenogenetic turkey poultts have been hatched each year for the past 10 years or so. Some of these parthenogenetic males at maturity have produced viable sperm and have sired offspring.

Marlow W. Olsen
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Department of Agriculture
Beltsville, Md.

SCIENCE NEWS

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