

## UNUSUAL SCIENCE BARGAINS EXCELLENT XMAS GIFTS!

### NOW TRANSPARENCIES COME ALIVE!

Spectacular new technique polarizes light to achieve amazing illusion of motion in transparencies, signs, displays, etc. Low-priced kit has all materials for 5 motion effects—turbulence, bubbles, radiation, rotation, blinking. Simply select motion type desired, cut to fit, remove backing and press. Shows moving functions of engines, rockets, gas turbines—flow patterns of air, gas, water, steam—light waves passing through optical instruments, nerve pulsations, etc. Compl. instr.

Stock No. 70,950Q ..... \$10.00 Ppd.  
**ADVANCED KIT—10 PHOTOMOTION EFFECTS**  
 Stock No. 70,949Q ..... \$20.00 Ppd.

### GIANT WEATHER BALLOONS

Create a neighborhood sensation. Great backyard fun. Exciting beach attraction. Blow up with vacuum cleaner or auto air hose. Filled with helium (available locally) use balloons high in the sky to attract crowds, advertise store sales, announce fair openings, etc. Amateur meteorologists use balloons to measure cloud height, wind speed, temperature, pressure, humidity at various heights. Photographers can utilize for low-cost aerial photos. Heavy duty neoprene.

Stock No. 60,568Q ..... 8' Diam. .... \$2.00 Ppd.  
 Stock No. 60,632Q ..... 16' Diam. .... \$7.00 Ppd.

### WOODEN SOLID PUZZLES

12 Different puzzles that will stimulate your ability to think and reason. Here is a fascinating assortment of wood puzzles that will provide hours of pleasure. Twelve different puzzles, animals, and geometric forms to take apart and reassemble, give a chance for all the family, young and old, to test skill, patience and, best of all, to stimulate ability to think and reason.

Stock No. 70,205Q ..... \$3.50 Ppd.

### NEW WORKING MODEL DIGITAL COMPUTER

#### Actual Miniature Version of Giant Electronic Brains

Fascinating new see-through model computer actually solves problems, teaches computer fundamentals. Adds, subtracts, multiplies, shifts, complements, carries, memorizes, counts, compares, sequences. Attractively colored rigid plastic parts easily assembled. 12" x 3 1/2" x 4 3/4". Incl. step-by-step assembly diagrams. 32-page instruction book covering operation, computer language (binary system) programming, problems and 15 experiments.

Stock No. 70,683Q ..... \$5.98 Ppd.  
 Detailed Programming Booklet For Experiments  
 Stock No. 9080Q ..... (50 Pages) ..... \$1.00 Ppd.

### IT'S HERE—

#### BIG, NEW DIGICOMP III

If you think DIGICOMP I was something—wait 'til you use DIGICOMP II! Loads of fun! Terrific challenge! Actually works like electronic digital computer but needs no power. Adds, subtracts, multiplies, divides, memorizes, 1st mechanical computer w/ auto. switch action. 1st model designed for programming. Speed reduced by factor of million to 1—you can see what's happening. Demonstrates new math, computer techniques.

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

### FLY 9-FT. HOT AIR BALLOON

9 Ft. tall. Rises to amazing heights on just hot air. Supplied with tether attached, so can be used over and over. Easy to make, launch, fly. Loads of fun. Great for celebrations, science fairs, plain fun. Will lift model gliders, parachutes, instruments, etc.—anything up to 1/2 lb. Approx. 5 ft. diam. when fully inflated. Kit contains 10 pre-cut red & white gores (No. 1 model paper), 6 ft. 14-gauge wire for bottom ring, top, "tie-off" cord, complete instructions.

Stock No. 60,691Q ..... \$2.00 Ppd.

### "FISH" WITH A WAR SURPLUS MAGNET

#### Go Treasure Hunting on the Bottom

Great ideal! Fascinating fun and sometimes tremendously profitable! Tie a line to our 5-lb. Magnet—drop it overboard in bay, lake, river or ocean. Trawl it along the bottom—your "treasure" haul can be outboard motors, anchors, fishing tackle, all kinds of metal valuables. 5-lb. Magnet is war surplus—Alnico V Type. Govt. cost \$50. Lifts over 150 lbs. on land—much greater weights under water.

Stock No. 70,571Q—5lb. Magnet ..... \$12.50 Ppd.  
 Stock No. 70,570Q—3 1/2-lb. size ..... \$ 8.75 Ppd.

Order by Stock No.—Send Check or M.O. Shipment same day received—Satisfaction or money back.

### TEACHERS: Write for Educational Catalog Q-2

EDMUND SCIENTIFIC CO., 300 EDSCORP BLDG., BARRINGTON, N.J. 08007

### MAIL COUPON for FREE CATALOG "Q"



EDMUND SCIENTIFIC CO.  
 300 Edscorp Building  
 Barrington, New Jersey 08007  
 Completely new 1968 Edition, 148  
 PAGES—4000 BARGAINS. Please  
 Rush Free Catalog "Q"

Name.....  
 Address.....  
 City..... State..... Zip.....

## LETTERS

# to the editor

## Citing sources

Sir:

I have enjoyed receiving SCIENCE NEWS for several years now. I think it an excellent means for keeping up with developments on all fronts in science.

However, I wish you would give us references to the original published work in the fields you discuss. I often find my curiosity aroused by one of your articles but am not able to find where to look further into the matter.

I was most interested in the article in the issue of Nov. 18 concerning the synthesis of synthetic isomers of the psychotomimetically active agents in marijuana. As a chemistry student, I wanted to be able to see the name so that I could draw the structures of the compounds involved. But I finally found what I wanted when a friend mentioned an article he happened to read in the JOURNAL OF THE AMERICAN CHEMICAL SOCIETY.

Please give my suggestion some thought. That way, we can glean much information on many subjects in a short time from SCIENCE NEWS and go on to other, more technical publications for more detailed material.

William W. Burns  
 University of South Carolina  
 Columbia, S.C.

*(We have given this matter considerable thought, and in original references to published work invariably attempt to cite sources. In later references, we find it more appropriate to refer to our own earlier stories to provide both the references you seek and additional information we might have reported. Had you followed our (SN:9/2) reference in the story (SN:11/18) to which you refer, back to the Science News of Sept. 2, to which we were referring, you would have found a report on the development of the compounds, citing the Aug. 16 JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. Ed.)*

# 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.

**ATOM SMASHERS.** 16mm, color, sound, 18 min. Introduction to particle accelerators, known as atom smashers, which are used by physicists to study the nature of elementary particles which are the building blocks of matter. Audience: general. Free loan information from AEC field libraries or Audio-Visual Branch, Division of Public Information, Atomic Energy Commission, Washington, D.C. 20545.

**THE CRITICAL BALANCE.** 16mm, color, sound, 32 min. Discusses the management and diagnosis of diabetes, pointing out specific methods and criteria for diagnosis and pointing out the necessity of accurate history taking. Also emphasizes the importance of patient education. Audience: medical profession and other interested groups. Free loan from Pfizer Medical Teaching Film Library, 267 West 25th St., New York, N.Y. 10017.

**GEMINI SCIENCE PROGRAM.** 16mm, color, sound, 50 min. Explains the fourteen science experiments in the Gemini program, including gravitational biology experiments, visual acuity experiments, synoptic terrain experiments, and the ultraviolet spectra of star experiment. Audience: general. Free loan from NASA Manned Spacecraft Center, Public Affairs Office, AP2, Houston, Texas 77058.

**Rx INNOVATION.** 16mm, color, sound (English version M-1047, Spanish version M-1351, French version M-1403), color, 11 1/2 min. Emphasizes communication problems resulting from explosions of population, biomedical knowledge, and curriculum content, and suggests possible methods for their solution. Audience: faculty of schools of health professions, members of health professions, librarians, training directors, audiovisual coordinators. Free loan from National Medical Audiovisual Center (Annex), Chamblee, Ga. 30005, or purchase from DuArt Film Laboratories, 245 West 55th St., New York, N.Y. 10019.

**THE SCIENCE OF FALLING BODIES.** 16mm, b&w, sound, 13 min. Single concept film which scans the history showing how a 16th century Dutch scholar, Simon Stevin, and later Galileo refuted Aristotle's original hypothesis of the velocity of fall proportionate to mass or weight. Audience: senior high school. Purchase \$75 from Carousel Films, 1501 Broadway, Suite 1503, New York, N.Y. 10036.

**THE SCIENCE OF LIGHT.** 16mm, b&w, sound, 13 min. A variety of precise experiments and demonstrations with the latest in laboratory apparatus explain the principles of the refraction and reflection of light. Audience: Junior high school. Purchase \$75 from Carousel Films, 1501 Broadway, Suite 1503, New York, N.Y. 10036.

**TIME FOR LIVING.** 16mm, color, sound, 28 min. Relates the way people over the world work together in one organization to help safeguard and improve the health of the world's population through better medicines. Audience: 10th grade and above. Free loan from Modern Talking Picture Service, 1212 Avenue of the Americas, New York, N.Y. 10036 (produced for Parke, Davis and Company).

## SCIENCE NEWS

Copyright © 1967 by Science Service, Inc. Republication of any portion of SCIENCE NEWS is strictly prohibited.

Subscription rate: 1 yr., \$6.50; 2 yrs., \$11.50; 3 yrs., \$16.50. Special trial offer for new subscribers only: 39 weeks, \$3.43. Single copy, 25 cents. No charge for foreign postage. Change of address: Three weeks' notice is required. Please state exactly how magazine is 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 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

L. D. Young, Advertising Director, SCIENCE NEWS, 1719 N St., N.W., Washington, D. C. 20036, Phone 202-667-8945.

Advertising Representatives: SCRIPPS-HOWARD NEWSPAPERS. General Advertising Department: 200 Park Ave., New York, N.Y., TN 7-5000; 400 N. Michigan Ave., Chicago, Ill., SU 7-3355; 800 Broadway, Suite 1100, Cincinnati, Ohio, 721-1254; Suite 211, Braniff Building, Dallas, Tex., FL 7-3847; 908 E. Northland Tower, Southfield, Mich., 444-4595; 6363 Wilshire Blvd., Los Angeles, Calif., OL 3-0026; Room 1522, Philadelphia National Bank Building, Philadelphia, Pa., LO 3-6275; 100 California St., San Francisco, Calif., 989-5570; Suite 417, 3384 Peachtree Rd., N.E., Atlanta, Ga. 261-5171.