

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.

GETTING THROUGH—M-1520-X. 16mm, b&w, sound, 20½ min. Explores smoking as a complex paradox in our society, and concludes that the final decision for young people about smoking is not up to parents, teachers, medical science, or advertising, but is a personal decision which each must make after weighing the facts. Audience: young adults, teachers, youth workers, parents. Free loan from National Medical Audiovisual Center (Annex), Chamblee, Ga. 30005, purchase from DuArt Film Laboratories, 245 West 45th St., New York, N.Y. 10019.

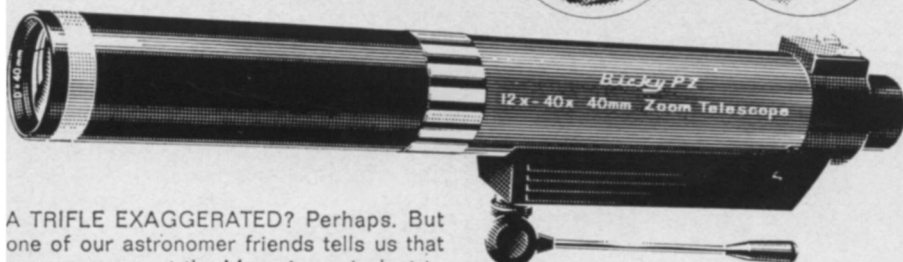
HAND TOOLS FOR METALWORKING. 16mm, color, sound, 25 min. Discusses the everyday tools of mechanics and craftsmen, including hammers, screwdrivers, pliers, wrenches, files

and hacksaws. Purchase information from Bailey Films, 6509 De Longpre Ave., Hollywood, Calif. 90028.

PUTTING SCIENTIFIC INFORMATION TO WORK. 16mm, color, sound, 35 min. Shows methods of attacking the various information bottlenecks which face researchers today. Audience: scientists, engineers, librarians, documentalists. Loan and purchase information from Institute for Scientific Information, 325 Chestnut St., Philadelphia, Pa. 19106.

A RADIO VIEW OF THE UNIVERSE. 16mm, color, sound, 28½ min. Shot on location at the Harvard College Observatory and the National Radio Astronomy Observatory at Greenbank, West Virginia, the work of Dr. Morton S. Roberts is followed and his methods of studying the age and evolution of galaxies are explained. Audience: high school seniors with some mathematical background, but can be used from seventh grade through college. Rental or purchase information from Modern Learning Aids, 1212 Avenue of the Americas, New York, N.Y. 10036.

Given to Vertigo? Then use extreme caution when touching the "Go" button of this 12x to 40x **POWER ZOOMSCOPE!**



A TRIFLE EXAGGERATED? Perhaps. But one of our astronomer friends tells us that a zoom sweep at the Moon is equivalent to approaching it in a rocket at 20,000 mph! If you are earthbound, the BICKY PZ (Power Zoom) is incomparable for sports (take in all the action, and know the pitcher's favorite brand of chewing tobacco), hunting, travel and aspects of science and industry where crisp, controlled, close-up observation is required.

THE FACTS? The BICKY PZ has smooth 12x to 40x zoom at the touch of a button, with instant stop at any intermediate magnification. 40mm coated objective provides excellent light gain and visual field of 141 ft. at 1,000 yds. (at 12x). Powered by two penlight batteries, dustproof construction, sturdy, compact and light-weight (36 ozs.) with lockable panning head, chrome-baked enamel extendable table-top tripod, vinyl case and pistol grip which allows hand-held focusing even to highest magnification.

MOST AMAZING FACT? THE PRICE: not astronomical at all! Until now a power zoom instrument would cost at least \$200 and not go beyond 8x. We'll send you the BICKY PZ, complete, for \$49.95 in presentation box. Fully guaranteed for 1 year, of course, for material and workmanship.

SEE IT CLOSE-UP

Mail to: 526 Washington, San Francisco 94111
Phone: (415) 981-5688

- Send me the BICKY P.Z. complete. I enc. \$50.95 (\$49.95 plus \$1 post. & ins.)*
- Also include the optional full-length de-luxe tripod for which I enc. \$16.95 (postpaid).*

*Calif. res. add 5%. Refund in 10 days if not amazed and delighted.

Name _____

Address _____

Zip _____

SN-1230

Haverhills

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; Suite 211, Braniff Building, Dallas, Tex., PL 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. 261-1571.

628/science news/vol. 92/30 december 1967

LETTERS

to the editor

Kudo minus one

Sir:

Congratulations (a bit belated) on the transformation of your magazine from sophomoric to sophisticated, in format and in literary production.

Generally, the articles show competence in presentation of material.

The current issue (Nov. 18) unfortunately opens with a naive and unscientific presentation of the F-111. It's difficult to conceive that your publication would devote virtually the entire article to Mr. Davis and his opinions, rather than to some more objective views on the plane by competent critics.

In all, the magazine is now at an adult level and serves a useful function. Good work!

*Louis Singer
Speech Pathologist
Washington, D.C.*

SCAT fading

Sir:

You carried an item on a transistor device (SN: 9/16) patented by Dr. William Shockley and assigned to International Telephone and Telegraph Corporation.

The theoretical frequency limit of the Silicon Controlled Avalanche Transistor (SCAT) is greater than 10 gigahertz. The common bipolar transistor has, with present processing technology, frequency capabilities greater than 3 gigahertz.

The initial enthusiasm regarding SCAT has waned because laboratory produced devices have only shown practical power gains at frequencies up to 100 megahertz. If it is accepted that SCAT is not the extremely high frequency device that at first it was thought to be, it is not inconceivable that it may find its place as the solid state answer to high power broadcasting at the megahertz and lower frequency bands, say in the kilowatt or greater range, because of the power considerations mentioned in your item.

*W. E. Naugler
ITT Semiconductors
West Palm Beach, Fla.*

Thanks

Sir:

I would like to congratulate you on your useful and informative publication.

*Gary W. Hull
Harvey Mudd College
Claremont, Calif.*