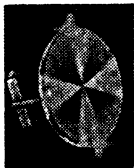


OPTICAL BARGAINS

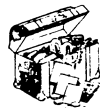
Order by Stock No.—Send Check or M.O.—
Satisfaction or Money Back!

OFFSPRING OF SCIENCE . . . REALLY BEAUTIFUL! CIRCULAR DIFFRACTION—GRATING JEWELRY



Shimmering rainbows of gemlike color in jewelry of exquisite beauty—made with CIRCULAR DIFFRACTION—GRATING REPLICAS. Just as a prism breaks up light into its full range of individual colors, so does the diffraction grating. Promises to become a rage in current fashion.

Stock #30,348-Q Earrings \$2.75 Pstpd.
Stock #30,350-Q Cuff Links \$2.75 Pstpd.
Stock #30,372-Q Pendant \$2.75 Pstpd.
Stock #30,390-Q Tie-Clasp \$2.75 Pstpd.



SCIENCE TREASURE CHESTS

For Boys—Girls—Adults!
Excellent "Science Fair" Material!
Science Treasure Chest—Extra-powerful magnets, polarizing filters, compass, one-way-mirror film, prism, diffraction grating, and lots of other items for hundreds of thrilling experiments, plus a Ten-Lens kit for making telescopes, microscopes, etc. Full instructions included.

Kit for making telescopes, microscopes, etc. Full instructions included.
Stock No. 70,342-Q \$5.00 Postpaid
Science Treasure Chest DeLuxe—Everything in Chest above plus exciting additional items for more advanced experiments including crystal-growing kit, electric motor, molecular models set, first-surface mirrors, and lots more.
Stock No. 70,343-Q \$10.00 Postpaid



Here's a Terrific Buy! WAR SURPLUS! American-Made! 7 x 50 BINOCULARS

Big savings! Brand new! Crystal clear viewing—7 power. Every optical element is coated. An excellent night glass—the size recommended for satellite viewing. Individual eye focus. Exit pupil 7 mm. Approx. field at 1,000 yds. is 376 ft. Carrying case included. American 7 x 50's normally cost \$195. Our war surplus price saves you real money.
Stock No. 1533-Q only \$55.00 pstpd. (tax incl.)



FLANNEL BOARD AND CUTOUTS

Teaching aid for all ages—from 5 up. Children enjoy doing simple arithmetic, mathematics problems, primary associations, alphabet and word drills, or use as means of self-expression. Sturdy Flannel Board is 12" x 18" on stand. More than 150 colored Felt Cutouts, letters, numbers, animals, shapes.
Stock No. 70,291-Q \$3.98 Postpaid

ANALOG COMPUTER KIT



Ideal introduction to the increasingly important electronic computer field. For bright students, or anyone interested in this new science. Demonstrates basic analog computing principles—can be used for multiplication, division, trig problems, physics formulae, and magnetism problems. Easily assembled with screwdriver and pliers. Operates on 2 flashlight batteries. Electric meter and 3 potentiometers are mounted on die-cut box. Answer is indicated on dial. Computer is 20" long, 9" wide, 2" deep.
Stock No. 70,341-Q \$14.95 Postpaid



Take Telephoto Shots Thru 7 x 50 MONOCULAR

This is fine quality, American made instrument—war surplus! Actually 1/2 of U.S. Govt. 7 x 50 Binocular. Used for general observation both day and night and to take fascinating telephoto shots with your camera. Brand new. Due to Japanese competition we close these out at a bargain price. Directions and mounting hints included.
Stock No. 50,003-Q \$15.00 Pstpd.

FREE CATALOG-Q

128 Pages! Over 1000 Bargains!

America's No. 1 source of supply for science experimenters, hobbyists. Complete line of Astronomical Telescope parts and assembled Telescopes. Also huge selection of lenses, prisms, war surplus optical instruments, parts and accessories. Telescopes, microscopes, satellite scopes, binoculars, infrared sniperscopes, items for making "Science Fair" projects, math learning and teaching aids. Request Catalog Q.

EASY PAYMENT PLAN AVAILABLE!
DETAILS WITH CATALOG!

EDMUND SCIENTIFIC CO.
BARRINGTON, NEW JERSEY

PSYCHOLOGY

Study Conditioned Reflex

➤ RUSSIANS AND AMERICANS will get together at Town Hall in New York this month in a sort of psychological "summit conference" to report and discuss research inspired by the Russian "patron saint" of neurology and psychology, Ivan Pavlov.

This famous Russian physiologist was the discoverer of the conditioned reflex. Russian psychologists are now required by the Government to confine their research to that based on the classic work of Pavlov, but their American colleagues say that the Russians can do all sorts of research and label it "conditioned reflexes." American psychologists also hold Pavlov in the highest esteem.

Seven top Russian scientists, six of them members of the U.S.S.R. Academy of Medical Sciences, are expected to report their latest research at this meeting, which will be held Oct. 13-15 under the joint auspices of the New York Academy of Sciences and the U.S.S.R. Academy of Medical Sciences.

All seven of the Russians have promised to be present although one qualified his promise with "if the weather is favorable."

Naturally, research reported by the Russian scientists will be related in one way or another to conditioned reflexes. Dr. S. A. Sarkisov will present current data on the structure and function of the human brain. Dr. P. K. Anokhin will talk about the brainwave study of the interrelations of different parts of the brain in conditioned reflexes.

Dr. P. S. Kupalov will report on normal and pathological nervous processes in the higher divisions of the brain. Dr. V. V. Zakusov will discuss the effects of drugs on conditioned and unconditioned reflexes. The effect of irradiation on brainwaves during the formation of reflexes will be the topic of Dr. V. G. Rusinov.

Dr. A. V. Snezhnevsky will discuss the treatment of mental patients with drugs that act on the mind. And Dr. E. A. Asratyan, who is a member of the U.S.S.R. Academy of Sciences, will report on the initiation and localization of cortical in-

hibition in elements of the conditioned reflex arc.

American scientists contributing to the meeting will not confine their reports to research on conditioned reflexes, but, like the Russians, will report recent research. Dr. Horace W. Magoun of the University of California Medical Center, Los Angeles, will discuss recent contributions to the electrophysiology of learning. Dr. Nathan S. Kline of Rockland State Hospital, Orangeburg, N. Y., will speak on the pharmacology of learning.

• Science News Letter, 78:228 October 8, 1960

SCIENCE NEWS LETTER

VOL. 78 OCTOBER 8, 1960 NO. 15

Edited by WATSON DAVIS

The Weekly Summary of Current Science, published every Saturday by SCIENCE SERVICE, Inc., 1719 N St., N.W., Washington 6, D. C., North 7-2255. Cable Address: SCIENSERV.

Subscription rates: 1 yr., \$5.50; 2 yrs., \$10.00; 3 yrs., \$14.50; ten or more copies in one package to one address, 7½ cents per copy per week; single copy, 15 cents, more than six months old, 25 cents. No charge for foreign postage.

Change of address: Three weeks notice is required. When ordering a change please state exactly how magazine is now addressed. Your new address should include postal zone number if you have one.

Copyright © 1960 by Science Service, Inc. Reproduction of any portion of SCIENCE NEWS LETTER is strictly prohibited. Newspapers, magazines and other publications are invited to avail themselves of the numerous syndicated services issued by Science Service. Science Service also publishes CHEMISTRY (eight times a year) and THINGS of Science (monthly).

Printed in U.S.A. Second class postage paid at Washington, D. C. Established 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 Audit Bureau of Circulation.

SCIENCE SERVICE

The Institution for the Popularization of Science organized 1921 as a non-profit corporation.

Board of Trustees—Nominated by the American Association for the Advancement of Science: William W. Rubey, U. S. Geological Survey; Wallace R. Brode; Douglas Whitaker, Rockefeller Institute for Medical Research; Nominated by the National Academy of Sciences: Harlow Shapley, Harvard College Observatory; Philip Bard, Johns Hopkins University; Henry Allen Moe, John Simon Guggenheim Memorial Foundation. Nominated by the National Research Council: Leonard Carmichael, Smithsonian Institution; John R. Dunning, Columbia University; Benjamin H. Willier, Johns Hopkins University. Nominated by the Journalistic Profession: Michael J. Ogden, Providence Journal-Bulletin; O. W. Riegel, Washington and Lee University; Lee Hills, Detroit Free Press. Nominated by the Scripps Estate: Edward J. Meeman, Memphis Press-Scimitar; Frank Ford, Washington, D. C.; Charles E. Scripps, Cincinnati, Ohio.

Officers—President: Leonard Carmichael; Vice President and Chairman of Executive Committee: Charles E. Scripps; Treasurer: Wallace R. Brode; Secretary: Watson Davis.

Staff—Director: Watson Davis. Writers: Gloria Ball, Ann Ewing, W. T. M. Grigg, Lillian Levy, Faye Marley, Jane Marrye, Tove Neville, Marjorie Van de Water, Judy Viorst. Science Youth Division: Joseph H. Kraus, Shirley Moore, Dorothy Schriver, Leslie Watkins. Photography: Fremont Davis. Production: Priscilla Howe, Marcia Nelson. Syndicate Sales: Hallie Jenkins. Librarian: Margit Friedrich. Interlingua Division in New York: Alexander Gode, 80 E. 11th St., GRamercy 3-5410. Advertising Manager: Fred A. Moulton, METropolitan 8-2562.

PHOTOGRAPHY

Picture of Human Fetus Gets Double Award

See Front Cover

➤ THE PHOTOGRAPH of a normal human fetus, seen on the cover of this week's SCIENCE NEWS LETTER, has received a double award at Salt Lake City, Utah, as part of the series presented annually for excellence in scientific photography by the Biological Photographic Association, founded at Yale University in 1931.

The picture received first prize in the category of monochrome prints, specimen photography, and also the Medical Education Award co-sponsored by Postgraduate Medicine. The photographer was James H. Peacock, Toronto, Canada.

• Science News Letter, 78:228 October 8, 1960

