

tions. Institutions where they are concentrated serve as beacon lights to those who feel the new penology should be tried. They shine as an indication that someday diagnosis and therapy will supplant blame and punishment in the management of law violators.

Science News Letter, December 6, 1958

#### MEDICINE

### Study Faculty Needs For Rheumatic Diseases

► THE AMERICAN Rheumatism Association has established a committee for the exchange of information concerning faculty appointees and fellows. There is a need for information about available personnel to staff the numerous new units that are being established in medical schools in this country and abroad for the study of rheumatic diseases.

The committee will be pleased to receive information about fellowships and traineeship opportunities and faculty and other staff vacancies as well as inquiries regarding available personnel. Address Dr. Currier McEwen, New York University College of Medicine, 550 First Avenue, New York 16, N.Y.

Science News Letter, December 6, 1958

#### ENGINEERING

### Dedicate New Reactor on A-Energy Anniversary

See Front Cover

► THE ARGONNE Low Power Reactor (ALPR), was dedicated on Tuesday, Dec. 2 at the Argonne National Laboratory's Idaho site at the U.S. Atomic Energy Commission's National Reactor Testing Station near Idaho Falls.

The date is the sixteenth anniversary of the birth of atomic energy.

The photograph on the cover of this week's SCIENCE NEWS LETTER is a view of the reactor and support facilities building looking northeast from an access road.

The ALPR is a direct-cycle boiling water reactor of 3,000-kilowatt gross reactor heat, moderated and cooled by the natural circulation of ordinary water. Designed to produce 200 kilowatts of electricity and 400 kilowatts of space heat, it can be transported by air, uses gravel at the site for biological shielding and can operate for three years on a single fuel loading.

Science News Letter, December 6, 1958

## Questions

**ASTRONOMY**—How large are the masses of some planetary nebulae? p. 360.

**CYTOLOGY**—Which part of the mitochondrion appears to be the cell "power plant"? p. 359.

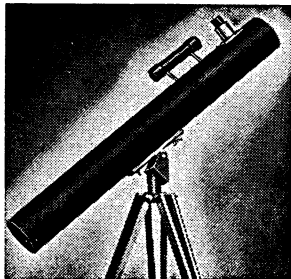
**MEDICINE**—What would be the advantages in administering a live polio virus vaccine? p. 355.

Photographs: Cover, Argonne National Laboratory; p. 355, U.S. Navy; p. 357, Lockheed Missiles Systems; p. 362, Fremont Davis; p. 368, Bell and Howell.

## SPACE ERA IS HERE! SEE THE SATELLITES MOON ROCKETS! AMAZING TELESCOPE BUYS AND OTHER OPTICAL BARGAINS



**Photographers!**  
Adapt your camera to this Scope for excellent Telephoto shots and fascinating photos of moon!



See the Stars, Moon, Planets Close Up!  
**3" ASTRONOMICAL REFLECTING TELESCOPE**

**ASSEMBLED and READY TO USE!**

Famous Mt. Palomar-Type  
60 to 160 Power—An Unusual Buy!

You'll see the Rings of Saturn, the fascinating planet Mars, huge craters on the Moon, Star Clusters, Moons of Jupiter in detail, Galaxies! This is a fine quality American-made telescope engineered and built for clear definition and resolution. Equatorial mount with lock on both axes—you automatically follow stars across the heavens. Aluminized and overcoated 3" diameter high-speed f/10 mirror. Each mirror focault tested. Telescope comes equipped with a 60X eyepiece and a mounted Barlow Lens, giving you 60 to 160 power. Accessory eyepieces available for higher powers. An Optical Finder Telescope, always so essential, is also included. Sturdy, hardwood, portable tripod. Free with scope: Valuable STAR CHART and 272 page "Astronomy Book."

Stock No. 85,050-Q.....\$29.95 Postpaid

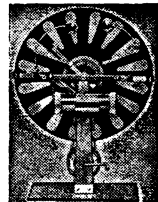
This is an actual photograph of the moon taken through our Astronomical Telescope by a 17-year-old student.

### 4 1/4" ASTRONOMICAL TELESCOPE

Mt. Palomar type! Up to 270 Power. A fine Reflector Telescope complete with real Equatorial Mount and Tripod and 6X Finder. Aluminum tube. 4 1/4" dia. mirror, rack and pinion focusing eye-piece holder. 2 eyepieces and mounted Barlow Lens for 40X, 90X, 120X and 270X. Low cost accessory eyepiece available for higher powers. Shipping weight approx. 25 lbs. Stock No. 85,006-Q, complete \$74.50 f.o.b. Barrington, N. J.

### NEW! STATIC ELECTRICITY GENERATOR

Sturdy, Improved Model  
See a thrilling spark display as you set off a miniature bolt of lightning. Absolutely safe and harmless—perfect for classroom experimentation. Ideal for Science Clubs. Sturdily made—stands 14" high. Turn the handle and two 9" plastic discs rotate in opposite directions. Metal collector brushes pick up the static electricity, store it in the Leyden jar type condenser until discharged by the jumping spark. Countless tricks and experiments. 24-page instruction booklet included.



Stock No. 70,070-Q.....\$12.95 Postpaid

### STEREO MICROSCOPE

Over 50% Saving. Up to 3" Working Distance—Erect Image—Wide 3 Dimensional Field. Used for inspections, counting, checking, assembling, dissecting. 2 sets of objectives on rotating turret. Standard pair of wide field 10X. Ichler Eyepieces give you 23 power and 40 power. Helical rack and pinion focusing. 10-DAY TRIAL!

Order Stock No. 85,056-Q  
Full price.....\$99.50 f.o.b. Barrington, N. J.

### SALE! TERRIFIC WAR SURPLUS BARGAIN!

#### AERIAL CAMERA LENSES

Govt. Cost \$1218—  
NOW \$39.50 Used

Made by B & L and E.K.—24" F.L. f/6, in 23" long Lens Cone. Use as long range, Big Bertha Telephoto lens—for Richest field (wide field, low power) telescope, etc. Lenses are 4" dia.—precision 4-element type, Aero Tessar and Aero Ektar. Easily removed. Diaphragm (f/6 to f/22) is included. Opens approx. 1" to 3 1/2". Lens and cone—wt. 25 lbs. Sturdy carrying trunk—wt. 26 lbs. Stock No. 85,059-Q 24" used. Price \$39.50 f.o.b. Stock No. 85,060-Q 24", new. Price \$59.50 f.o.b. Utah

### CAMERA HOLDER FOR TELESCOPES

Bracket attaches permanently to reflecting or refracting telescopes. Removable rod holds camera over eyepiece to take pictures of Moon or terrestrial telephoto shots of distant objects. White metal projection screen permits you to see the sun spots! Includes brackets, 28 3/4" rod, projection screen, screws, directions.

Order Stock No. 70,162-Q.....\$9.95 Postpaid

### New! 2 in 1 Combination Pocket-Size

#### 50 POWER MICROSCOPE and 10 POWER TELESCOPE

ONLY \$4.50 p.p.d.

Useful Telescope and Microscope combined in one amazing, precision instrument. Imported! No larger than a fountain pen. Telescope is 10 Power. Microscope magnifies 50 Times. Sharp focus at any range. Handy for sports, looking at small objects, just plain snooping.

Send Check or M.O. Satisfaction Guaranteed

Order Stock No. 30,059-Q.....\$4.50

### BEGINNERS LENS KITS!

Fun for adults! Fun for children! Kits include plainly written, illustrated booklet showing how you can build lots of optical items.

Stock No. 2-Q—10 lenses.....\$ 1.00 Postpaid

Stock No. 5-Q—4 lenses.....\$ 5.00 Postpaid

Stock No. 10-Q—80 lenses.....\$10.00 Postpaid

### Take Telephoto Shots Thru 7x50 MONOCULAR

This is fine quality. American made instrument—war surplus! Actually 1/4 of U.S. Gov. 7 x 50 Binocular. Used for general observation both day and night and to take fascinating telephoto shots with your camera. Brand new, \$95 value. Due to Japanese competition we close these out at a bargain price. Directions and mounting hints included. Stock No. 50,003-Q.....\$15.00 Postpaid

### CLOSE OUT! MECHANICAL DRAWING SET

Regular Price \$18.00—Our Price Only \$6.00 Postpd.

American mfr. couldn't compete with foreign imports—thus you get a terrific bargain, even far below import prices. 10 handsome pieces in velvet-lined case. Nickel plated brass—precision American-made. We guarantee you'll be satisfied or money refunded.

Stock No. 50,200-Q.....\$6.00 Postpaid

Quantity Price: 5 Sets for \$5.50 each Postpaid  
10 Sets for \$5.00 each Postpaid

### SLIDE RULE! CLOSEOUT SALE!

\$7.00 Value—  
Only \$3.00

Machine engraved for long life—white solid plastic 10" Slide Rule. Face scales A-B-C-D-E-K—Reverse S-T—inch and centimeter scales top and bottom. Fine lined etched glass cursor. U. S. Bureau Standards equivalents and settings. Smooth and easy slide operation. Made in U.S.A. Direction Booklet included. Regular \$7.00 value and an unusual buy. Stock No. 30,288-Q.....\$3.00 Postpaid

(Send Check or M.O.—Money-Back Guarantee)

GET FREE CATALOG #Q—World's largest variety of Optical Items. Bargains galore... War Surplus—Imported—Domestic! Items for making "Science Fair" Projects. Microscopes, Telescopes, Satellite Telescopes, Infrared Items, Prisms, Lenses, Reticles, Mirrors, etc., low cost Science Teaching Aids. (Request Bulletin 50-Q.) Ask for FREE CATALOG #Q.

ORDER BY STOCK NUMBER. SEND CHECK OR MONEY ORDER. SATISFACTION GUARANTEED!  
**EDMUND SCIENTIFIC CO., BARRINGTON, N. J.**

