

populations began to develop resistance to the insecticides.

In 1951 Greece reported that one of its anophelines, *A. sacharovi*, had become resistant to DDT. By 1955 the United States reported resistance to dieldrin in Bolivar County, Mississippi. Since then 16 other nations, from Burma to Ecuador, have reported anopheline resistance to one insecticide group or the other.

It soon became obvious that control measures are not enough. The disease and the insect vectors must be completely wiped out before total resistance sets in.

The present plan is to use DDT in dieldrin-resistant areas, and vice-versa. But no one knows how long it will be before the mosquitoes become so strong that neither chemical group can kill them.

The campaign is now a race against time. Getting experts and other workers to the key areas is the second hurdle. The whole world effort must be correlated into a military-type attack, and it is no small job for countries who have few experts and little money.

WHO's malaria fund needs \$50,000,000 within the next five years. Ninety percent of the cost of eradication programs is borne by the governments where malaria still exists. In many countries the money spent on the malaria campaign represents "an impressive percentage of the national budget."

The program will take one year of organization, four years of total spraying coverage and three years of surveillance to stamp out the stubborn spots.

If all goes well, there will be no malaria in the world in 1968.

Science News Letter, April 9, 1960

#### RADIO ASTRONOMY

### Nine Radio Sources From Outer Space Identified

NINE NEW SOURCES of radio waves from outer space far beyond the Milky Way have been identified. This brings to 14 the number of extra-galactic radio stars now identified.

The new sources were pinpointed by a twin radio telescope with two 90-foot parabola antennas. The whole instrument is mounted on a 1,600-foot long railroad track oriented east-west 250 miles from Los Angeles. This particular telescope is reported to have a greater resolving power than any other instrument in the world.

Prof. John G. Bolton of the California Institute of Technology, who has directed studies with the telescope since it was put into operation two months ago, is now attempting to identify more than 100 extra-galactic radio sources which have been detected, but not precisely located.

This is accomplished by comparing the radio sound and direction with photographs of the area from which the sound comes.

Some bodies in space are difficult or impossible to see because clouds of gas get in the way and block the view. For this reason, an estimated 20% of the galactic and extra-galactic radio sources already detected will probably never be identified.

The Cal Tech studies are being conducted under contract to the U.S. Navy's Office of Naval Research in Washington.

Science News Letter, April 9, 1960

#### ATCO STANDARD THERMOMETER

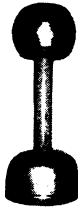
Floating Type 9 1/4 inches long. Printed Paper Scale ranging up to 160 degrees F. in two-degree divisions. Magnifying Lens Tube has yellow-green backing for easy reading. Mercury-filled. Bulb fused to outside of cylinder for quick registering. Shot weighted. Floats upright. Guaranteed accurate. For fishing, fish-tank, dairy, etc.

Also a Taylor model to 230 degrees F. Value \$3.00. Sale price 50¢ each postpaid.

**HARRY ROSS** Scientific & Lab Apparatus  
63 Reade St., N. Y. 7, N. Y.

#### ELECTROSTATIC GENERATORS

(Van de Graaff Type)



**500,000 VOLTS.** This model available in kit form is over 3 feet tall and has a 15" diameter spherical charge collector. Kit includes 15" hemispheres, plastic tube, pulleys, bearings, belt, frame, and assembly directions.

**\$32.50** Postpaid

**200,000 VOLTS.** This model (shown at left) is 17" high and has a 6 1/4" diameter spheroidal charge collector. Operates on 110 volt AC. Fully assembled, postpaid **\$39.95**. Kit form **\$24.95**. Other models to 1,000,000V.

**Vacuum Equipment.** Mech. pumps for pressure range 1 Atmosphere down to 150 Microns **\$32.50**. Diffusion pumps for pressure down to .01 Microns **\$16.00**. McLeod gauges for range 1 Micron to 1000 Microns **\$14**. Write for free spec. sheets. Dept. SN.

**Morris & Lee, 294 Elm, Buffalo 3, N. Y.**

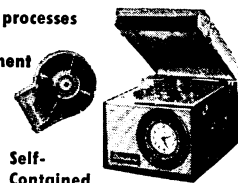
### New "Mechanical Educator" to IMPROVE MEMORY

Learn faster than ever with new device effective for learning languages, speech, tables, facts, formulae, etc.

#### DORMIPHONE MEMORY TRAINER

- Speeds up learning processes
- Aids concentration
- Provides entertainment

The Memory Trainer records, instantly plays back, and when clock is set, automatically repeats speech, music, any material at regular intervals through a built-in speaker. No reels of tape to snarl or rewind. Portable. Ideal aid for work, school, child training, entertainment—Used by educators, psychologists, people of all ages.



Self-Contained

Recording Cartridges

from 30 seconds to 55 minutes Easily removed. Can be stored or "erased" instantly and re-used repeatedly.

Write **TODAY** for **FREE** folder with complete information. No salesman will call.

Modernophone, Inc., 125-010 Radio City, N.Y., 20, N.Y.

## Life-Size

# HUMAN SKULL

A "must" in the professional office—ideal for doctors, dentists, scientists, lawyers, students, nurses, artists—a real "eye-catcher" in a den, bar, recreation room, study or office! **LIFE-SIZE HUMAN SKULL** is anatomically correct—has removable skull cap for demonstration—spring-action lower jaw complete with teeth. Developed after 3 years of research by a prominent physician. It's of unbreakable, bone-hard, bone-color. Superior Skull sections snap-together-come apart. Complete with display stand for table or mantel. Instruction and anatomy chart—gift-boxed for appreciated gift-giving. A real "collector's item" . . . **GUARANTEED** to be a perfect replica in every way **OR YOUR MONEY BACK!**

**ONLY \$5.**

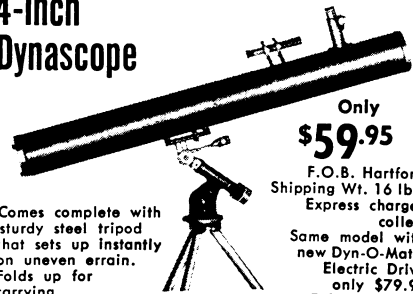
Add 50¢ delivery & handling  
Satisfaction Guaranteed

**STANDARD AMERICAN MED., Dept. SN**  
1 Park Ave., New York 16, N. Y.

## Used and Approved by Leading Universities!

Now you can enjoy the same superior performance at the low **DYNASCOPE** price!

### 4-Inch Dynascope



Only **\$59.95**

F.O.B. Hartford  
Shipping Wt. 16 lbs.  
Express charges collect

Same model with new Dyn-O-Matic Electric Drive only **\$79.95**  
F.O.B. Hartford

Comes complete with sturdy steel tripod that sets up instantly on uneven terrain. Folds up for carrying.

America's most popular 4-inch reflector! Includes such professional features: 4-inch parabolic pyrex mirror, aluminized and quartz coated • Quick-action equatorial and altazimuth mount with fingertip control • Setting circle • 4-power crosshair finder-scope • Rack & Pinion focusing • 3 compound eyepieces (65X, 130X, 167X). • Lifetime 45" bakelite tube.

Model RV-6

### 6-Inch Dynascope



ONLY **\$194.95**

F.O.B. Hartford  
Shipping Wt. 50 lbs. Express charges collect

New Dyn-O-Matic Electric Drive assures effortless, automatic tracking. Use any A.C. household socket.

Finest American-made 6-inch reflector in its price range! Save \$100 or more, yet get all these fine features: f/8 6-inch mirror accurate to 1/8 wave • electric drive • 3 matched eyepieces (75X, 150X, 343X) • 6x30 Achromatic finderscope • Heavy-duty mount with setting circles • Rack & Pinion eyepiece holder • Rotating tube • Sturdy lightweight tripod.

#### FREE FACTS

on new 6", 8", 10",  
12", 16" Custom DYNASCOPES  
Mail coupon today!

#### Criterion Manufacturing Company

Dept. NL-55, 331 Church St., Hartford 1, Conn.

Under your money-back guarantee, please ship me promptly the DYNASCOPE checked below. My payment in full enclosed.

4-inch \$59.95  6-inch \$194.95  
 4-inch with Electric Drive \$79.95

Send **FREE LITERATURE** on Custom DYNASCOPES and details of your Easy Payment Plan.

Name .....

Address .....

City .....

State .....