

ELECTROSTATIC GENERATORS

(Van de Graaff Type)

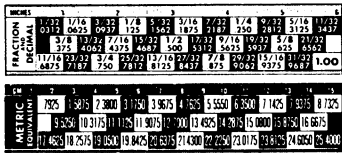


500,000 VOLTS. This model available in kit form is over 3 feet tall and has a 15" diameter spherical charge collector. Kit includes 15" hemispheres, plastic tube, pulleys, bearings, belt, frame, and assembly directions. **\$29.80** Postpaid

200,000 VOLTS. This model (shown at left) is 17" high and has a 6 1/2" diameter spheroidal charge collector. Operates on 110 volt AC. Fully assembled, postpaid **\$29.50**. Kit form **\$19.50**. Other models to 1,000,000 V. Vacuum Equipment Mech. pumps for pressure range 1 Atmosphere down to 150 Microns **\$32.50**. Diffusion pumps for pressure from 1mm Hg. down to .01 Microns **\$25.00**. McLeod gauges for range 1 Micron to 1000 Microns **\$11**. Write for free spec. sheets. Dept. SN.

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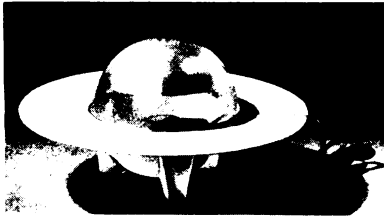
Amazing TWO VIEW RULES



Two rules in one! It all depends on your angle. From one angle you see inches, from another you see the corresponding millimeters—in the same space. Very interesting and useful. Model M, shown above, is 6 1/8" long. Also available, is Model T, which operates in the same fashion, comparing °C with corresponding °F. Priced at only 50¢ each, six for \$2.50. Send for your rules today.

R. P. CARGILLE LABORATORIES, INC.
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ENGINEERING

Pennsylvania Railroad May Use New Electric Car

➤ **PENNSYLVANIA RAILROAD** commuters may soon be traveling regularly on fast, air-conditioned, lightweight electric cars.

The new cars are already being operated experimentally on some "selected runs" during peak hours.

The car, known as Pioneer III, was described to the American Institute of Electrical Engineers meeting in New York by K. H. Gordon, Pennsylvania Railroad Co., Philadelphia; V. F. Dowden, Budd Co., Philadelphia, and E. W. Ames, Westinghouse Electric Corporation.

They reported the cars have greater seating capacity and lower maintenance and operating costs per mile. Each car's power comes from a single-phase overhead trolley with ground return. Up to 13 cars may be coupled together in one train.

Science News Letter, February 21, 1959

GENERAL SCIENCE

Science Foundation Holds Summer Institutes

➤ **THREE HUNDRED** and fifty summer institutes for high school and college teachers of science and mathematics will be able to accommodate about 18,000 teachers during the summer of 1959, the National Science Foundation has announced. The institutes will be supported by Foundation grants totaling about \$21,000,000.

Courses and activities specifically designed to meet subject-matter needs of teachers who have been out of college for a number of years will be offered. The sessions will vary in length from four to 12 weeks, and participants will be chosen by the institutes and not by the Foundation.

Institutes will be held in all 48 states, Alaska, Hawaii, Puerto Rico and the District of Columbia. About 300 will open only to high school teachers, 30 only to college teachers and 20 to both. Thus, approximately 16,000 high school teachers and 2,000 college teachers will be able to participate.

A list of institutes may be obtained from the Foundation in Washington, D. C.

Science News Letter, February 21, 1959

ICHTHYOLOGY

Odd-Shaped Larval Eel Discovered in Pacific

➤ **A STRANGE** new 12-inch transparent "fish" having bulging eyes in a tiny head about the size of a man's thumbnail has been discovered off the coast of Washington at a depth of 5,000 to 6,000 feet.

Its odd shape sets it apart from any fish previously described, Dr. Daniel M. Cohen of the U. S. Fish and Wildlife Service will report in a forthcoming issue of *Deep Sea Research*.

The "fish" is a leptocephalus. This is a variety of fish previously considered to be

a genus but now believed to be the larval form of eels.

Dr. Cohen said that the leptocephali of most eel species are as yet unknown, and that it would be unwise to "draw too sweeping a conclusion" about the new eel.

This larval eel represents a species hitherto unknown in the northeastern Pacific and not described in scientific literature. It differs from almost every other known leptocephalus in its great body depth.

It has a body about 12 inches long and about four and one-half inches deep. Its head is only about half an inch long and half an inch deep. Compared to its head size, therefore, this larval eel is extremely deep-bodied and long.

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