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DECEMBER 17, 1949

SCIENCE NEWS LETTER



®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



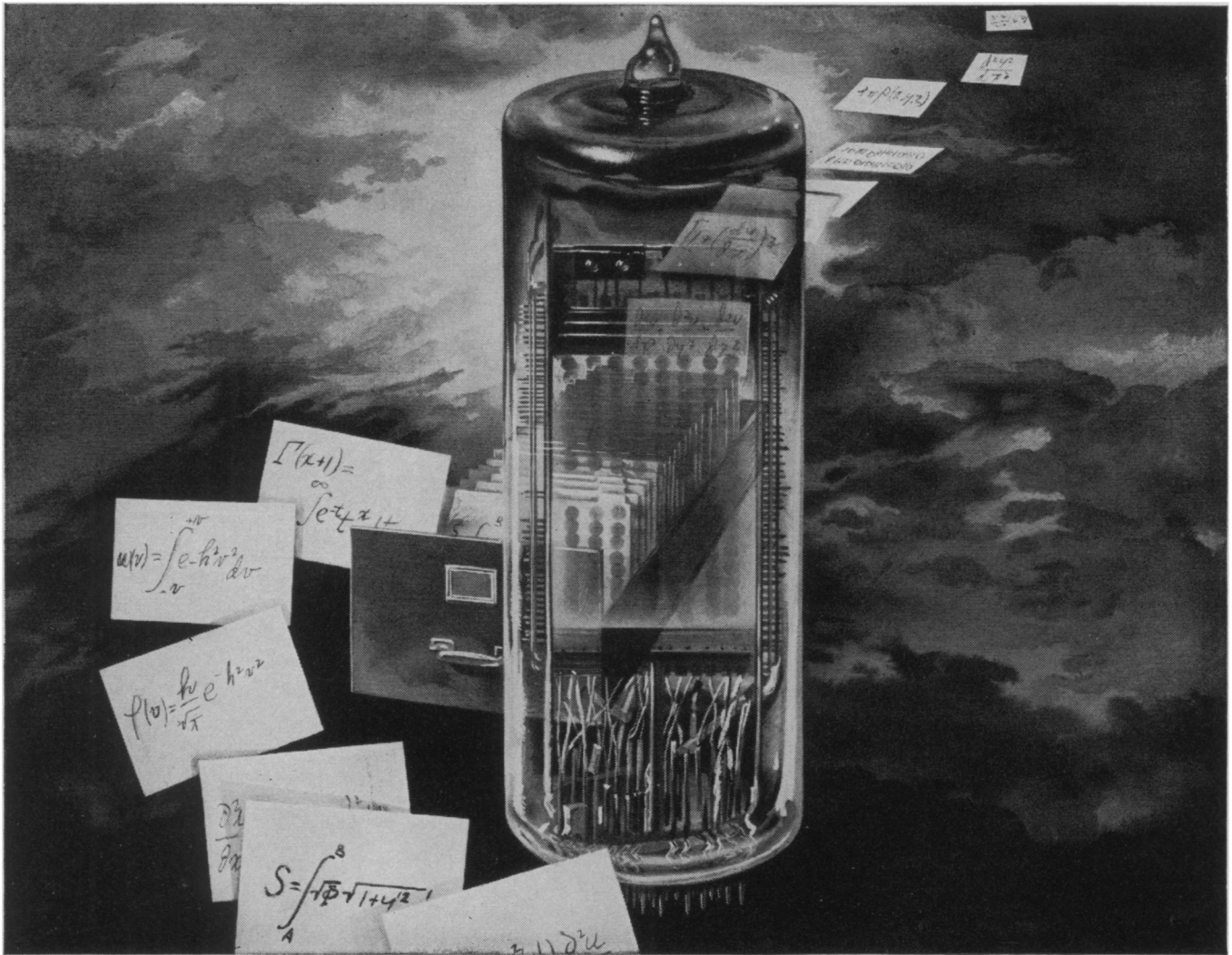
Winter Wonderland

See Page 390

A SCIENCE SERVICE PUBLICATION

\$5.50 A YEAR

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New RCA electron tube gives today's amazing computing machines an indispensable memory.

Tube with a memory keeps answers on file

So complex are present scientific studies—such as in atomic research—that just working out the “arithmetic” could easily take up all of our scientists’ time.

Short cut through this drudgery is found in huge electronic computers, able to add or multiply numbers as large as a thousand billion in *millionths of a second*. But such speed is valueless unless—with comparable speed—the results of countless computations can be kept “on file” and taken out again.

Such a “file” now exists in the Selectron tube, developed at RCA Laboratories. Electronically it retains figures fed into calculating machines, stores them while it memorizes new ones—speeds intelligent solutions through mazes of mathematics.

Uses of RCA’s Selectron tube are many. It will help atomic scientists acquire new and needed knowledge . . . provide new information on supersonic flight . . . even help make rapid weather predictions! It is an invaluable instrument in the scientist’s campaign to penetrate the unknown.

For your benefit:

Development of the Selectron tube is another of the basic advances pioneered at RCA Laboratories. Continued leadership in science and engineering adds *value beyond price* to any product or service of RCA and RCA Victor.

* * *

Examples of the newest advances in radio, television, and electronics—in action—may be seen at RCA Exhibition Hall, 36 West 49th St., N. Y. Admission is free. Radio Corporation of America, Radio City, N. Y. 20.



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World Leader in Radio — First in Television

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See for yourself with this fascinating pencil size microscope. Clip it on to your pocket; you'll be proud to own one. Ideal for people in all walks of life. Holds unlimited fascination for both young and old. Replaces costly instruments. Magnifies 20X. Instant focus. Excellent wide field. Aluminum body, beautiful satin finished. Hundreds of uses. Makes handy inspection instrument. See for yourself. Order today. **Postpaid \$2.50**

GYRO-TOP

Demonstrates the principle of the gyro-compass. A source of entertainment and scientific facts for all ages. Complete with all accessories. **Postpaid \$1.25**

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Popular American Makes

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Wollensak Vari-power Telescope 15-40 X.\$24.50

RADIOMETER

American made. Balanced four arm vane turns upon exposure to light. Demonstrates radiation principles. Guaranteed to operate. **Postpaid \$6.50**

METEOROLOGY KIT

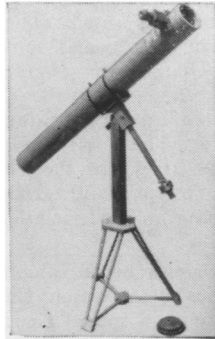
An excellent kit for the person interested in meteorology. It contains a barometer hygrometer, and an outdoor-indoor thermometer. All are precision instruments of sturdy construction. Ideal for the beginner or home meteorologist. Kit (3 instruments). **Postpaid \$8.50**

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60 degree clear white Czechoslovakian glass for spectrum demonstration. Creates a beautiful rainbow effect in sunlight. Suitable for chemical analysis with the bunsen flame.
5/8" x 1 1/2". Price.....**75c plus 10c postage**

40 Power ROSS STELLARSCOPE

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Tripod \$8.50 extra

Same Principle
as Mt. Palomar
Newtonian
Telescope

Complete knocked down, ready to be assembled in 15 minutes. All holes drilled, no additional parts necessary! Lenses completely ground, polished and aluminized. Sharp, clear images guaranteed; no color fringes, fuzz or distortion. Light, portable, weighs only 6 lbs.

Not a toy! This is a precision instrument for serious work on the Planets, Moon, Variable Stars, Nebulae etc. Also excellent for bird study and other terrestrial observations. The amateur will expand his book knowledge of astronomy by actually seeing the heavenly wonders.

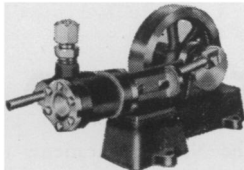
The outfit contains every part, optical and mechanical, needed to make the Stellarscope, except the tripod.

FULL INSTRUCTIONS, COMPLETELY ILLUSTRATED WITH PHOTOGRAPHS INCLUDED (INSTRUCTIONS ALONE 50c.)

All that is required to assemble this Ross Stellarscope is a small screwdriver, also furnished. Nothing to buy! Send for your Ross Stellarscope today!

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Tripod (3 lb.).....8.50



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Bore 9/16"; stroke 1-1/16"; length of base 6"; height 3"; weight 2 pounds. Finished in red enamel with brass trim. Delivers 1/4 H.P. with 15 lb. pressure. Suggested use: students, experimenters, display, aerating pump in tropical fish tank, etc.

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HARRY ROSS

MICROSCOPES

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Ideal for the study of minerals. Observe the colors of fluorescent materials under the 250 Watt Purple X Lamp (Black Light). Why do white onions fluoresce a pink and the roots a snow white? Potatoes fluoresce a milky blue and the peelings are wholly negative. These results and many more are obtained under the same lamp. Minerals from different parts of the country give off different colors. Order a BLACK light and three brilliantly fluorescent minerals for **ONLY \$2.00**. Express collect.

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A handy paperweight and a fine magnifying glass all in one. Enhances any desk or reading room. Contact focus makes reading easier. Smartly and beautifully finished. A must for every desk. Everyone will need and want one and easily use one—just place on reading matter. Excellent gift.....**Price \$1.00**

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When split seconds count, you will be glad you own one of these dependable and accurate timers. For games, industrial time studies, science. Easy to operate. No figuring necessary. Precision push button timing.

No. SWC3: Jeweled made in Switzerland. Divisions read one tenth second to thirty minute register. Push button for time out. **Price \$10.00**

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No. SW33: Aristo for football and basket ball. Made in USA. Dependable, ideal for sporting events. Always reads time left to play. Simple, accurate and convenient.....**Price \$8.50**

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ELIMINATE "SMALL PRINT". No need for eye-strain, if you read with any one of our assortment of magnifiers. Map reading, graphs, tables, telephone book addresses, enlarged photo, retouched negative, etc. Different powers. Each one made of finest optical glass. Makes ideal gift. Price:

2 1/2" diameter\$3.40
3 1/4" diameter 3.90
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