

15¢

\$5.50 A YEAR

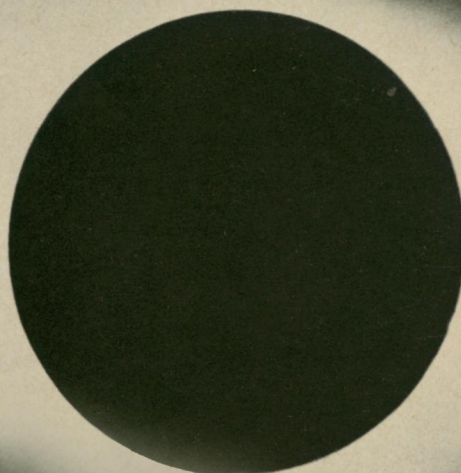
July 6, 1963

VOL. 84, NO. 1 PAGES 1-16

SCIENCE NEWS LETTER

®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



U.S. Naval Research Laboratory

Solar Blackout
See Page 10

A SCIENCE SERVICE PUBLICATION

Books Worthwhile Reading

SPONSORED
BY
SCIENCE SERVICE

Special Offer Saves 27%: Complete Set of 11 Items—Only \$8.36

SCIENTIFIC INSTRUMENTS YOU CAN MAKE

How teen-age scientists have designed and built astronomical instruments, spectroscopes, Tesla coils, oscilloscopes, cloud chambers, atom counters, Van de Graaff generators, electronic computers, stroboscopes, and demonstrated ultrasonics, chromatography, photomicrography and mathematical constructions. Illustrations show the completed instruments. References guide the reader to research in the fields opened by use of these instruments. Postpaid \$2.00

THE CHEMICAL ELEMENTS

Their properties, sources, most important isotopes, characteristic compounds, places in the periodic table and histories of their discoveries, including announcements. Up-to-date, revision includes element 103; 3d edition. Fully indexed, paper bound. Invaluable for reference. By Helen M. Davis with revisions by Dr. Glenn T. Seaborg.

Postpaid 10 copies for \$5.00 Each (add 5¢ postage) 50¢

EXPERIMENTING WITH CHEMISTRY

For those who wish to start experiments in chemistry, this is a guide and laboratory manual which includes, as well, detailed explanations of reactions and processes for advanced students. More than 125 experiments. Special sections on sympathetic inks, spectacular reactions, spontaneous combustion, blow pipe analysis and metallurgy. By Burton L. Hawk. Postpaid \$2.00

PROJECTS: SPACE

The exciting story of U. S. space exploration with reports on fourteen fascinating student science projects in space age science . . . written with the technical assistance of the National Aeronautics and Space Administration. By Judith Viorst.

Postpaid 10 copies \$4.50 Each (add 5¢ postage) 45¢

SCIENCE PROJECTS HANDBOOK

This usable new book includes a variety of examples of successful projects done by winners and members of the Honors Group in the Science Talent Search and finalists in the National Science Fair-International, suggestions on planning and carrying out projects and exhibits, new ideas for research and sources of information and equipment. How to become a scientist is discussed and helpful suggestions are drawn from the experience of outstanding young scientists.

Postpaid 10 copies for \$5.00 Each (add 5¢ postage) 50¢

ORGANIC CHEMISTRY FOR THE HOME LAB

Learn to think chemically . . . Mauve, the first aniline dye, was discovered one hundred years ago by a young chemist who followed where his curiosity led him. You can make this and other beautiful dyes, interesting plastics, fundamental chemicals, by following these clear directions a handy book, written by Burton L. Hawk. Postpaid \$2.00

SCIENCE EXHIBITS

Science Exhibits tells you how to select your material, how to plan its presentation, how to display, to label and to light it, how to describe the work you have done. Postpaid \$2.00

WONDERFUL WORLD OF SCIENCE

Your guide to marvelous adventures in science. Specifically compiled for science students, teachers, science club sponsors. Free gifts and low-cost samples by the thousands . . . films, photos, kits, books, plans, scientific apparatus. Covers the broad field of science from anthropology through zoology. Edited by Shirley Moore and Judith Viorst.

Postpaid 10 copies \$5.00 Each (add 5¢ postage) 50¢

WHERE THERE IS LIFE

A distinguished naturalist's introduction to ecology—the biology of the living landscape. A fascinating discussion of the conditions necessary for life; what it takes for a species to thrive; the succession of the species; how we can safeguard our future. By Paul B. Sears. Postpaid 10 copies \$5.00. Each (add 5¢ postage) 50¢

OF MEN AND NUMBERS

The story of mathematics told through the lives of the men who created it—from the 6th century to the present. Not only a biography of 12 great mathematicians from Pythagoras through Cantor, but a clear idea of the evolution of mathematical thought. By Jane Muir. Postpaid 10 copies \$5.00. Each (add 5¢ postage) 50¢

FROM CROSSBOW TO H-BOMB

The evolution of the weapons and tactics of warfare in the light of science and invention . . . a sweeping survey, not only of instruments of war over the past 2000 years, but of the men and materials behind the weapons—the intellectual and technological resources of age and place. By Bernard and Fawn Brodie.

Postpaid 10 copies \$5.00 Each (add 5¢ postage) 50¢

To Science Service • 1719 N Street, N.W. • Washington 36, D. C.

Send me publications I have checked below. \$..... enclosed.

- Scientific Instruments You Can Make
- The Chemical Elements
- Experimenting with Chemistry
- Projects: Space
- Science Projects Handbook
- Organic Chemistry for the Home Lab

- Science Exhibits
- Wonderful World of Science
- Where There Is Life
- Of Men and Numbers
- From Crossbow to H-Bomb
- All @ \$8.36

Name.....

Address.....

City.....Zone.....State.....