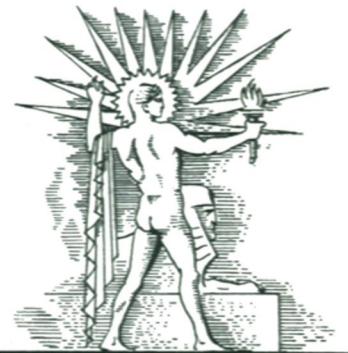
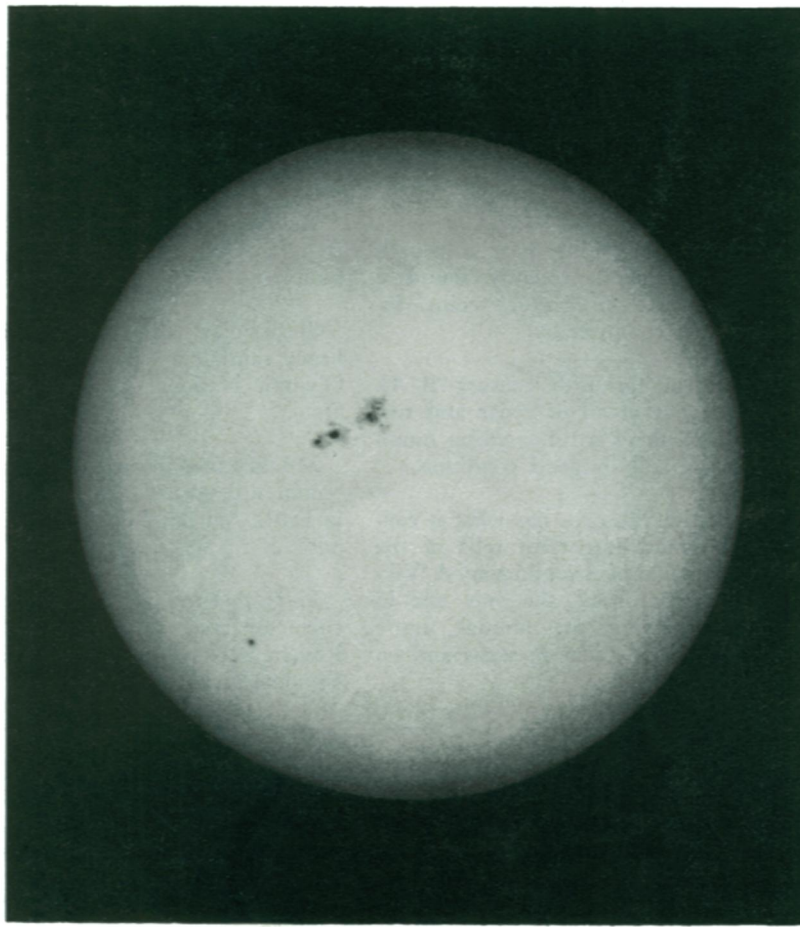


PRICE
15¢

FALL BOOK NUMBER

SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE ●



October 22, 1938

100,000 Mile Spot

See Page 260

A SCIENCE SERVICE PUBLICATION

Do You Know?

Germany is trying to start a silk-worm and mulberry industry.

Crumbling rock is virtually unknown in the Teton mountain range, making for greater safety in climbing.

Taking an elephant's temperature is not so simple—it varies in different parts of the animal's body by as much as one and one-half degrees.

People have been wearing necklaces since the Old Stone Age, 30,000 years ago, when beads were made of animal teeth strung on sinew.

Using a special coring machine, scientists recently got a sample of the red clay from the Pacific floor, under water two and a half miles deep.

An anthropologist tells us that boys in the Old Stone Age probably could whistle, because modern primitives such as Hottentots do it quite well.

An argument over sauerkraut has apparently been settled: experiments indicate that sauerkraut is a good source of Vitamin C if properly prepared and promptly canned.

Excavating the eighth century palace of an Arab caliph near Jericho, archaeologists have found that the decorations include human and animal designs, thus proving that the famous Moslem aversion to human and animal figures in art did not arise until the ninth century.

NEW BOOKS ON SCIENCE—FALL 1938

This issue contains Science Service's semi-annual comprehensive bibliography of current books in various scientific fields. It lists those published or promised during the latter half of this year. Books are intelligent companions for recreation or useful tools for research. Books like those in this list will make exceptional Christmas gifts. It is not too early to begin to think about your gift problems and SCIENCE NEWS LETTER will aid you with special suggestions if you wish them. SCIENCE NEWS LETTER will obtain for you any American book or magazine in print. Send check or money order to cover regular retail price (\$5 if price is unknown, change to be remitted) and we shall pay postage in the United States. When publications are free, send 10c for handling. Address: Book Department, SCIENCE NEWS LETTER, 2101 Constitution Ave., Washington, D. C.

Cutting or shaving hair does not make it grow faster or thicker.

Seventy-five per cent. of New Hampshire's sugar maple trees fell in the recent hurricane.

Workmen excavating near a church in Essex, England, recently found a hoard of thirteenth century coins, including two counterfeits.

Varnish of the fifth century B. C. was made out of oil of cedar and turpentine, and this varnish used on mummy cases is still in good condition.

The British Museum has what it considers the most important relic of the Vikings outside of Scandinavia: A Viking ship figure head, the only one in existence showing the animal figure heads mentioned often in sagas and on tombstones.

There are 200 hospitals in New York City.

The duck-billed platypus walks with its feet rolled into fists.

An orang-utan in the New York Zoo is recovering from a tropical disease something like athlete's foot in man.

Spectacular "rain forests" caused by heavy rainfall are a feature of the new Olympic National Park in Washington State.

Military men regard poison gas as an economical way of "knocking out" men in battle, but on the other hand, it does not kill many.

Hope that the buried portions of Herculaneum may still preserve important Roman books and manuscripts is held by some archaeologists.

SCIENCE NEWS LETTER

Vol. 34 OCTOBER 22, 1938 No. 17

The Weekly Summary of Current Science, published every Saturday by SCIENCE SERVICE, Inc., 2101 Constitution Avenue, Washington, D. C., Edited by WATSON DAVIS.

Subscriptions—\$5.00 a year; two years \$7.00; 15 cents a copy. Ten or more copies to same address, 5 cents a copy. Back numbers more than six months old, 25 cents.

Members of the American Association for the Advancement of Science have privilege of subscribing to SCIENCE NEWS LETTER at the reduced price of \$3 per year. Applications for this privilege should be accompanied by privilege card obtained from the Permanent Secretary, A.A.A.S., Smithsonian Institution Building, Washington, D. C.

In requesting change of address, please give your old address as well as the new one, at least two weeks before change is to become effective.

Copyright, 1938 by Science Service, Inc. Reproduction of any portion of SCIENCE NEWS LETTER is strictly prohibited. Newspapers, maga-

zines and other publications are invited to avail themselves of the numerous syndicate services issued by Science Service.

Cable address: Scienserve, Washington.

Entered as second class matter at the post-office at Washington, D. C., under the act of March 3, 1879. Established in mimeographed form March 18, 1922. Title registered as trademark, U. S. and Canadian Patent Offices. Indexed in Readers' Guide to Periodical Literature and in the Engineering Index.

Advertising rates on application. Member Audit Bureau of Circulation.

SCIENCE SERVICE is the Institution for the Popularization of Science organized 1921 as a non-profit corporation, with trustees nominated by the National Academy of Sciences, the National Research Council, the American Association for the Advancement of Science, the E. W. Scripps Estate and the journalistic profession.

Board of Trustees—*Honorary President*: William E. Ritter, University of California; *Representing the American Association for the Advancement of Science*, J. McKeen Cattell, Editor, Science, Garrison, N. Y.; Henry B. Ward, University of Illinois, Urbana, Ill.; Edwin G. Conklin, *President*, American Philosophical Society, Philadelphia, Pa. *Representing the National*

Academy of Sciences, W. H. Howell, *Vice-President and Chairman of Executive Committee*, Johns Hopkins University, Baltimore, Md.; R. A. Millikan, Director, Norman Bridge Laboratory of Physics, California Institute of Technology, Pasadena, Calif.; Harlow Shapley, Director, Harvard College Observatory, Cambridge, Mass. *Representing National Research Council*, C. G. Abbot, Secretary, Smithsonian Institution, Washington, D. C.; Harrison E. Howe, Editor of Industrial and Engineering Chemistry, Washington, D. C.; Ross G. Harrison, Director, Osborn Zoological Laboratory, Yale University, New Haven, Conn. *Representing Journalistic Profession*, John H. Finley, Editor, New York Times; J. Edwin Murphy, Managing Editor, Baltimore Evening Sun, Baltimore, Md.; O. W. Riegel, Director, Lee School of Journalism, Washington and Lee University, Lexington, Va. *Representing E. W. Scripps Estate*, Harry L. Smithton, *Treasurer*, Cincinnati, Ohio; Warren S. Thompson, Miami University, Oxford, Ohio.

Staff—Director, Watson Davis; Writers, Frank Thone, Emily C. Davis, Jane Stafford, Marjorie Van de Water, Robert Potter, Leonard H. Engel; Correspondents in principal cities and centers of research. Photography: Fremont Davis; Librarian: Minna Gill; Sales and Advertising: Hallie Jenkins, Austin Winant, Howard Bandy.

Books of wide interest to both layman and scientist

THE REDISCOVERY OF MAN

By Henry C. Link

In this dynamic new book the author of the popular "Return to Religion" offers a challenge and a guide to men and women who wish to develop their full powers, direct their talents and energies, mold their personalities to their full stature. \$1.75

PATTERNS OF SURVIVAL

By John H. Bradley

Following the devious adventurings of mice and men through a billion years of history, the author seeks to coordinate the spirit which drives man with the matter of which he is made, to fathom a world in which there are both trilobites and God. \$2.25

BABIES ARE HUMAN BEINGS

By C. A. and M. M. Aldrich

This book sweeps aside rigid regimes in child care in favor of more flexible and sympathetic methods based on the baby's ability to respond. Yet, in spite of its revolutionary character and readable style, it is based on sound scientific knowledge and years of practical experience. \$1.75

THE NATION'S FORESTS

By William A. DuPuy

A beautifully illustrated book on our national reserves, how they are cared for, the purposes they serve, the government's research work connected with them. \$3.00

GUIDING HUMAN MISFITS

By Alexandra Adler

In this book the daughter of the late Alfred Adler, internationally known as the founder of individual psychology, explains some of the applications of her father's principles in the light of her own clinical experience. While sacrificing nothing of scientific value, she writes in a style comprehensible to the layman as well as the psychiatrist. \$1.75

SYMBOLISM AND BELIEF

By Edwin Bevan

A scholarly discussion of the symbolical ideas by which men have represented what lies beyond the sensory world. \$5.00

NEW BOOKS



in the field of science

Texts and professional books for scientific students and research workers

BACTERIOLOGY 4th Edition

By E. D. and R. E. Buchanan

Brings completely up to date a standard text for introductory college courses. \$3.50

A TEXTBOOK OF MICROBIOLOGY

By Kenneth L. Burdon

This new edition of the popular "Textbook of Bacteriology" has been completely rearranged and rewritten to bring it in line with modern teaching requirements. To be ready in January. \$3.00 (probable)

THE PHYLUM CHORDATA

By H. H. Newman

An unusually interesting text for the lecture part of the course on vertebrate zoology, discussing the Phylum Chordata as a whole and showing its biological relationships and significance. To be published in November. \$3.75 (probable)

VITAMIN B₁ AND ITS USE IN MEDICINE

By R. R. Williams and T. D. Spies

A monograph by two men who have been chief contributors to the knowledge of the anti-neurotic vitamin and its clinical applications. \$5.00

A HUNDRED YEARS OF ASTRONOMY

By R. L. Waterfield

A summary of the astonishing knowledge men have accumulated during the past century about our awe-inspiring heavens. \$5.75

HOUSEHOLD PHYSICS

By Madalyn Avery

An excellent text for the home economics student on the basic principles of physics and their hundreds of applications in the modern household field. To be ready October 25th. \$3.50 (probable)

A COURSE OF STUDY IN CHEMICAL PRINCIPLES

2nd Edition

By A. A. Noyes and M. S. Sherrill

One of the most widely used standard texts on physical and theoretical chemistry, now brought up to date. \$5.00

THE STRUCTURE OF ECONOMIC PLANTS

By Herman E. Hayward

A valuable synthesis of experimental and research work done on the structure and developmental anatomy of 16 plants of basic economic importance. To be published in November. \$4.90 (probable)

LABORATORY MANUAL to Accompany Brinkley's INTRODUCTORY GENERAL CHEMISTRY. Revised Edition.
By H. G. Dietrich and E. B. Kelsey. \$1.90.