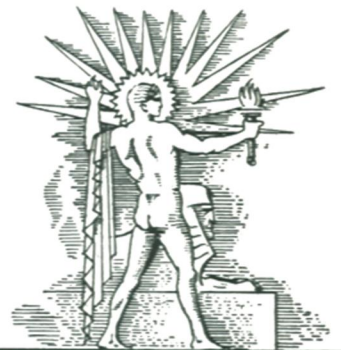
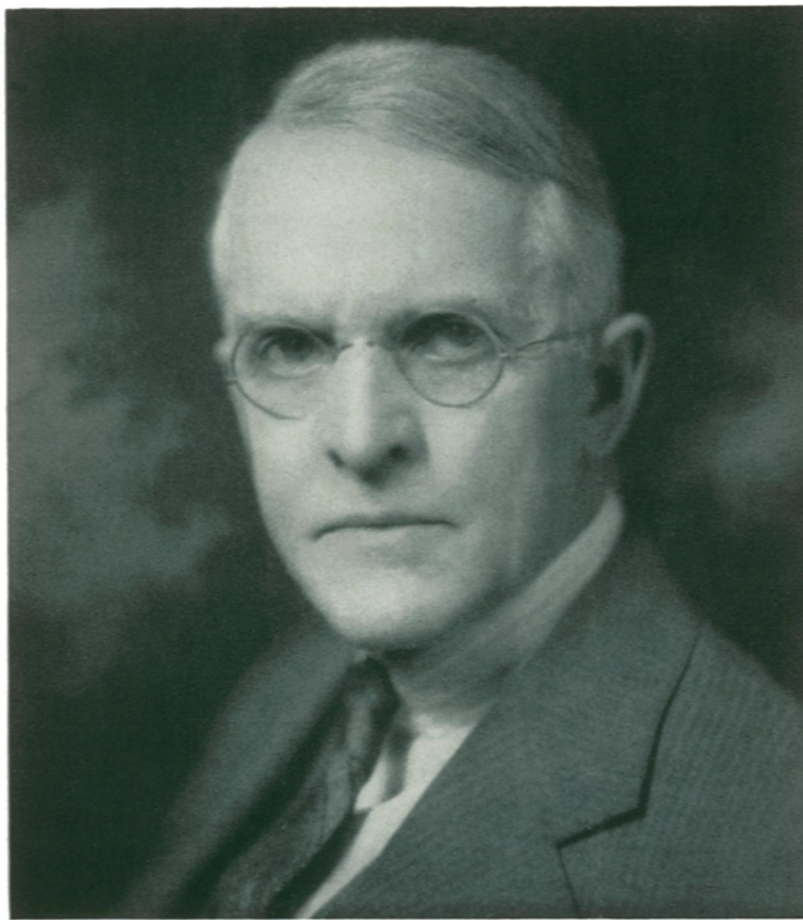


PRICE
15¢

SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE ●



January 8, 1938

President, AAAS

See Page 24

A S C I E N C E S E R V I C E P U B L I C A T I O N

Do You Know?

Birds in winter appreciate suitable shelter as well as bread crumbs.

Germany now has six whaling fleets working to increase her supplies of oil.

Jellyfish are usually known as sea creatures but a few kinds live in fresh water.

The Empress Josephine collected 250 varieties and species of roses in her garden.

Foreign radio programs are arousing increased interest in study of foreign languages.

The first iron produced in this country was made into a one-quart pot, still in existence.

Yellow asphalt for pedestrian crossings has been tried in England to make these walks conspicuous.

One noted physician declares that man's future will depend very largely on what he decides to eat.

Indians of Panama carried their burdens fastened to ends of a pole on their shoulders—coolie fashion.

Lambs produced and sold out-of-season are known to the trade as hot house lambs and usually bring high prices.

Some Central American Indians wore thick armor jackets of cotton, which gave good protection against pikes and lances.

QUESTIONS DISCUSSED IN THIS ISSUE

Most articles which appear in SCIENCE NEWS LETTER are based on communications to Science Service, or on papers before meetings. Where published sources are used they are referred to in the article.

ANTHROPOLOGY

How should a house be planned for use by two wives? page 23.

ARCHAEOLOGY

Are the stone-chipping arts of Stone Age man lost to the modern world? page 24.

BIOLOGY

Are single-celled creatures cannibals? page 21.

Do toads have a homing instinct? page 20.

Do the two heads of a two-headed snake ever fight each other? page 30.

How can the color of flowers be changed? page 30.

How can the X-ray find the sex-determining X-chromosome? page 20.

CHEMISTRY

What vitamin plays a part in evolution? page 27.

GENERAL SCIENCE

Who is the new president of the American Association for the Advancement of Science? page 24.

GEOLOGY

Can blisters make mountains? page 22.

How can an artificial earthquake be used to hunt for a missing continent? page 21.

How can atoms shape the world? page 22.

Was there a dustbowl during the coal age? page 22.

MEDICINE

Can heart trouble cause insanity? page 26.

Is Malta fever known in the United States? page 26.

What chemical would make a rat mother a young squab? page 24.

What glands are involved in diabetes? page 26.

Why does too much alcohol bring on pneumonia? page 28.

PHYSICS

What force is responsible for the existence of all matter? page 29.

PLANT PHYSIOLOGY

What are some of the applications of the root pressure research awarded the American Association prize? page 19.

Why do tremendous pressures exist in the roots of plants? page 19.

PSYCHOLOGY

Can workers get used to extreme noise? page 28.

PUBLIC HEALTH

How many lives are saved each year by modern medicine? page 25.

The Field Museum has a unique exhibit of birds no human being has ever seen alive, the birds being reconstructed from fossil remains.

An Englishman has patented in the United States a camera, which not only takes moving pictures but can be used to project them on a screen.

Sheep from Vermont, introduced into Australia as wool-growing stock, proved unable to adapt to the conditions there.

The public feeding of the bears in Yellowstone Park each evening is sometimes attended by extra guests—ravens, coyotes, and seagulls.

SCIENCE NEWS LETTER

Vol. 33 JANUARY 8, 1938 No. 2

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, 1937, by Science Service, Inc. Reproduction of any portion of SCIENCE NEWS LETTER is strictly prohibited. Newspapers, magazines 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 Circulations.

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 Philo-sophical Society, Philadelphia, Pa. Representing the National Academy of Sciences, W. H. Howell, *Vice-Presi-*

dent 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, Ludvig Hektoen, John McCormick Institute for Infectious Diseases, Chicago, Ill.; C. G. Abbott, Secretary, Smithsonian Institution, Washington, D. C.; Harrison E. Howe, Editor of Industrial and Engineering Chemistry, Washington, D. C. Representing Journalistic Profession; John H. Finley, Editor, New York Times; Mark Sullivan, Writer, Washington, D. C.; Dean Carl W. Ackerman, Columbia University Graduate School of Journalism, New York City. Representing E. W. Scripps Estate, Harry L. Smithton, *Treasurer*, Cincinnati, Ohio; Robert P. Scripps, Scripps-Howard Newspapers, West Chester, 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, Ronald L. Ives, Leonard Engel; Correspondents in principal cities and centers of research. Photographer: Fremont Davis; Librarian: Minna Gill; Sales and Advertising: Hallie Jenkins, Austin Winant, Howard Bandy.