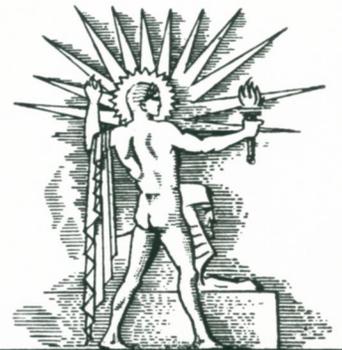


PRICE
15¢

FALL BOOK NUMBER

SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE •



OCTOBER 26, 1935

Not a Ghost
See Page 260

A

SCIENCE SERVICE PUBLICATION

SCIENCE NEWS LETTER

VOL. XXVIII



No. 759

The Weekly Summary of

Current Science

Published Every Saturday by

SCIENCE SERVICE

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.

Edited by WATSON DAVIS

Subscription rates—\$5.00 a year postpaid; 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.

Canadian subscribers please add 50 cents a year, foreign subscribers 75 cents a year to regular subscription rate to cover postage.

Members of the American Association for the Advancement of Science have the privilege of subscribing to SCIENCE NEWS LETTER at the reduced price of \$3 per year. Application 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 in notification to Circulation Department, SCIENCE NEWS LETTER, 2101 Constitution Ave., Washington, D. C., at least two weeks before change is to become effective.

Copyright, 1935, by Science Service, Inc. Reproduction of any portion of the 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.

Publication Office, 1930 Clifton Ave., Baltimore, Md., Editorial and Executive Office, 2101 Constitution Ave., Washington, D. C.

Address all communications to Washington, D. C. Cable address: Scienservc, Washington.

Entered as second class matter October 1, 1926, at the post-office at Baltimore, Md., under the act of March 3, 1879. Established in mimeographed form March 13, 1922. Title registered as trademark, U. S. and Canadian Patent Offices. Advertising rates furnished on application.

Member Audit Bureau of Circulations.

Board of Trustees of Science Service

Honorary President, William E. Ritter, University of California. *Honorary Vice-President*, Vernon Kellogg, National Research Council. Representing the American Association for the Advancement of Science, J. McKeen Cattell, *President*, Editor, Science, Garrison, N. Y.; Burton E. Livingston, Johns Hopkins University, Baltimore, Md.; Henry B. Ward, permanent secretary, A.A.A.S. 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, Ludvig Hektoen, John McCormick Institute for Infectious Diseases, Chicago, Ill.; C. G. Abbot, Secretary, Smithsonian Institution, Washington, D. C.; Harrison E. Howe, Editor of Industrial and Engineering Chemistry, Washington, D. C. Representing Journalistic Profession, John H. Finley, Associate Editor, New York Times; Mark Sullivan, Writer, Washington, D. C.; Marlen E. Pew, Editor of Editor and Publisher, New York City. Representing E. W. Scripps Estate, Harry L. Smithon, *Treasurer*, Cincinnati, Ohio; Robert P. Scripps, Scripps-Howard Newspapers, West Chester, Ohio; Thomas L. Sidlo, Cleveland, Ohio.

Staff of Science Service

Director, Watson Davis; Staff Writers: Frank Thone, Emily C. Davis, Jane Stafford, Marjorie Van de Water, Robert Potter; Astronomy writer, James Stokley; London correspondent, Donald Caley. Correspondents in principal cities and centers of research. Librarian, Minna Gill; Sales and Advertising Manager, Hallie Jenkins.

DO YOU KNOW?

Soviet officials are organizing postal routes by which aviators will carry letters and parcels to Arctic points.

Sweden has been having an anti-noise campaign directed against automobile horns, motor boats, and other noise makers.

Yale scientists who have been studying behavior of chimpanzees are now planning tests of the nutrition processes of these apes.

Enameling metal stoves, refrigerators and other metal objects in two coatings, instead of the usual three, is possible with a new process.

Experiments with honey at North Dakota Agricultural College have produced good fruit jelly and now honey is to be tried in making pickles.

Salmon River Canyon in Idaho, the gorge of which is deeper than the famous Grand Canyon of the Colorado, will be explored by an expedition.

Observers state that a trap door spider never leaves its hole; but in catching insects the spider merely springs out, keeping hold of the hole with its hind legs.

A turkey's age can be judged by its breastbone: the bone is flexible in a young bird, brittle in a bird a year or more old, and hard and tough in an old turkey.

Cure of scurvy by lemon juice was noted by physicians as early as 1745.

Mexico is four-fifths Indian today by blood and perhaps also by psychology, says an ethnologist.

A British geographer suggests that winds of the Antarctic may some day be used as vast sources of power.

Field studies of harvesting potatoes on 254 farms, showed that diggers injured 10 per cent. of the potatoes.

Electrical devices for modern poultry farms include electric egg candlers, sprayers, water systems, burglar alarms, and brooders.

In recent years the Florida Experiment Station has tested the relative value of 59 different varieties of cotton for planting in the state.

Kentucky Indians 200 years ago established game refuges called "beloved bear ground," where only a limited number of animals could be killed.

Holland has had such mild winters—with one exception—in the past 12 years that Dutch children have had no good chance to learn ice skating.

Only one home in ten is adequately lighted, says a home management specialist, pointing out that screens, dirty glass, and curtains often shut out much needed daylight.

WITH THE SCIENCES THIS WEEK

Most articles are based on communications to Science Service or papers before meetings, but where published sources are used they are referred to in the article.

ASTRONOMY

How large must a heavenly body be in order to keep the surface incandescent? p. 265.

CHEMISTRY

What is a sun furnace and how high are the temperatures it can create? p. 260.

GENETICS

What is a good definition of genetics? p. 264.

HYGIENE

What proportion of people are in good health? p. 265.

MEDICINE

What new important step has been taken toward the understanding of influenza? p. 260.

PHYSICS

Can an electric light bulb be lighted without wire connections? p. 260.

How does the noise of a ship's siren compare with that of a normal conversation? p. 265.

What physical problem has been explained satisfactorily? p. 265.

PSYCHIATRY

Do neurotics have difficulties not met by normal persons? p. 264.

In the anti-war document, who are called responsible for the "boundless misery" of war? p. 259.

PSYCHOLOGY

Can thought exist apart from the body? p. 264.

ZOOLOGY

How late in the evolution of animal life did the Gorilla appear? p. 264.