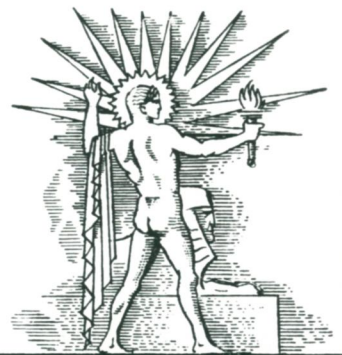
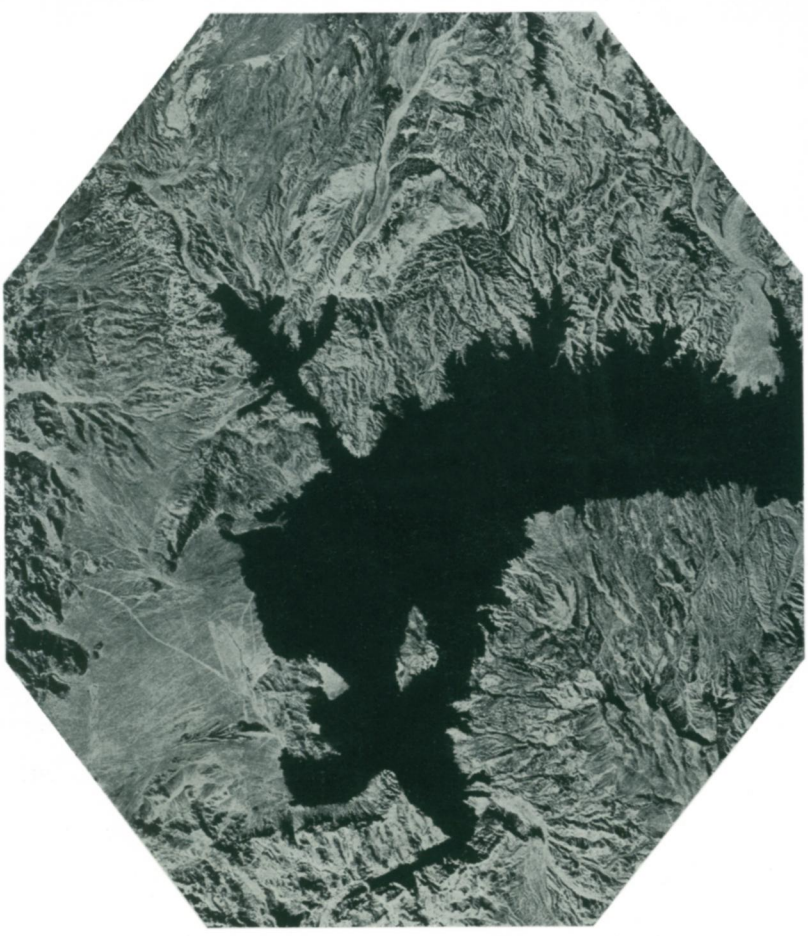


PRICE
15¢

SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE ●



OCTOBER 19, 1935

Man-Made Wonder
See Page 248

A

SCIENCE SERVICE PUBLICATION



SCIENCE NEWS LETTER

VOL. XXVIII



No. 758

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: Scienserv, 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. Smithton, *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?

Florida is to have a special frost forecasting service from mid-November until April.

Strong winds recently swept the sand off ancient ruins in Michigan, revealing a village of Mound Building Indians.

Beekkeepers lose many bees unnecessarily, by failing to make the bees warm and comfortable against winter cold.

A California entomologist has searched the citrus fruit growing belt, almost the world over, without finding any parasite that will keep down the red scale pest.

Muskrats, introduced into California as fur-bearers, are believed to be escaping into Sacramento Valley, where it is feared they may damage levees and irrigation ditches.

Instead of guiding by directions north, east, south, and west, Babylonians oriented maps and buildings according to prevailing winds, which blew in general northwest, northeast, southwest, and southeast.

One-reel extracts from 20 popular moving picture plays have been made, for use in character education in schools and churches.

It is time left-handed boys and girls were provided with left-handed class room arm chairs and other equipment, says a high school teacher, himself a left-hander.

A Soviet icebreaker radios discovery of a sign post and some mail left by the Nordenskiöld expedition, first to cross the Northern Sea route from Atlantic to Pacific, 1878-1879.

Inexpensive paper windows used in Chinese houses transmit ultraviolet light effectively enough, tests indicate, so that they might be substituted for ultraviolet glass in some tuberculosis clinics.

In dry regions of Hawaii cattle have been known to get along without ordinary water supplies for months, getting moisture only from succulent plant leaves, dew and rain on leaves, and occasional small pools after a rain.

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.

AGRICULTURE

What effect is chemical research likely to have on crop control? p. 246.

ANTHROPOLOGY

From what land can Scotsmen trace their origin? p. 249.

How is Dr. Hodge to be honored? p. 249.

ARCHAEOLOGY

What household conveniences were known to the kings of Mari 2200 years B.C.? p. 249.

ART

What new value has tissue paper in art? p. 247.

ASTRONOMY

How many asteroids are visible through the largest telescope? p. 244.

Who was once said to have observed men on the moon? p. 255.

BOTANY

Did the Aztecs have a science of medicine? p. 250.

CHEMISTRY

What challenge does the sea hold for future scientists? p. 252.

ENGINEERING

In what laboratory are problems of canals on the Mississippi being studied? p. 243.

FORESTRY

Can a forest be healthy in a dry region? p. 254.

GEOGRAPHY

What effect has rain in South America on our wax supply? p. 245.

MEDICINE

In what percentage of cases is whooping cough vaccine a successful preventive? p. 248.

What clue to approaching lead poisoning may be found in the blood? p. 247.

Which is more important, prenatal care or care at childbirth? p. 244.

Which of the proposed vaccines for infantile paralysis holds the most promise? p. 245.

MENTAL HYGIENE

Why do children fail? p. 243.

PHOTOGRAPHY

Of what territory is the world's largest photographic map? p. 245.

PHYSICS

What appropriate gift was presented to Prof. Bohr on his 50th birthday? p. 246.

What effect has temperature on neutrons in radioactivity bombardments? p. 249.

PUBLIC HEALTH

Are Ethiopia's diseases present in the United States? p. 244.

What factor is more important than money in the control of malaria? p. 248.

What great medical success has been reported from Sweden? p. 254.

What is pulmonary asbestosis? p. 249.

VOLCANOLOGY

Where do the Hiatic Ootam live? p. 246.