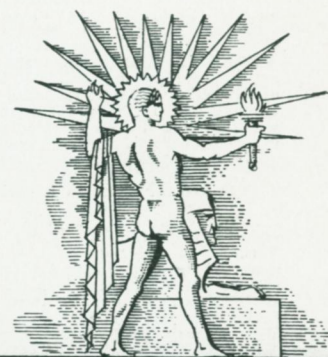
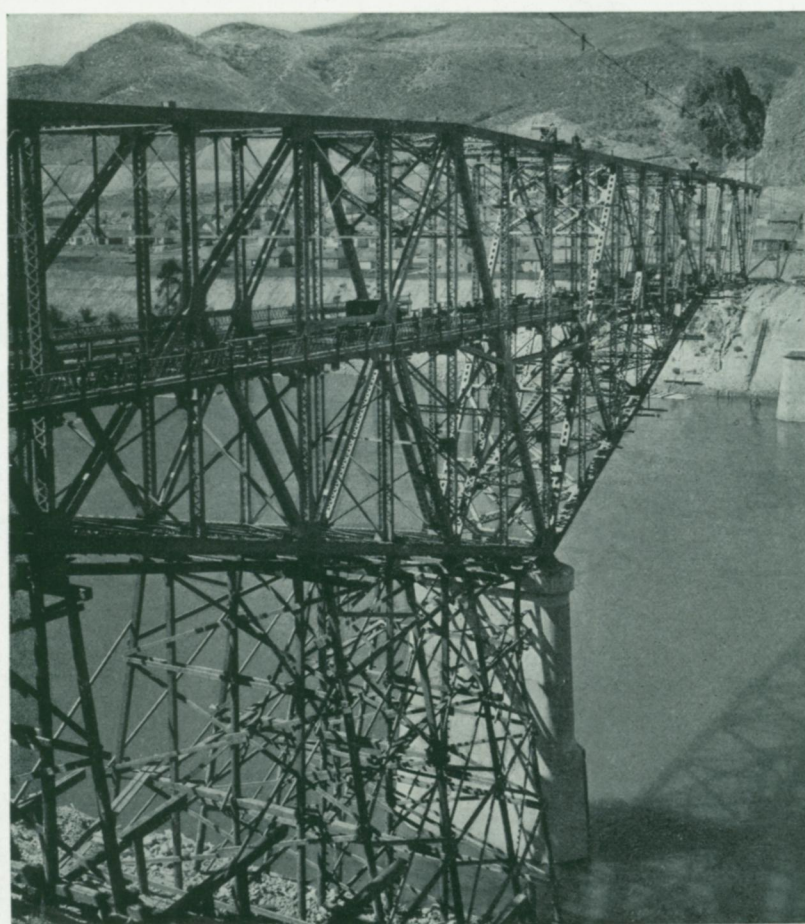


PRICE  
15¢

# SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE •



SEPTEMBER 28, 1935

**New Bridge at Grand Coulee**  
See Page 197

A

SCIENCE SERVICE PUBLICATION

## SCIENCE NEWS LETTER

VOL. XXVIII



No. 755

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?

The turtle carries its shoulder blades within its ribs.

The Red Sea gets its name from swarms of minute red algae.

Russia's output of synthetic rubber is expected to be 85,000 tons this year.

Experiments indicate that common rock salt will harden a clay and gravel road to a density almost that of concrete.

The London Zoo is featuring a "pets corner" where boys and girls may make friends with carefully chosen pets, including a chimpanzee and lion cub.

A blind Minnesota farmer, whose land is being used to demonstrate soil erosion control work, is following the project by a Braille map on which the farm features are indicated by raised perforations.

Two English authorities consider whooping cough the most important epidemic disease in London in causing physical suffering, loss of school attendance, impairment of physique and mortality.

The only quicksilver mine in the United States is in Terlingua, Texas.

Tipi rings—circles of stones that once held down the skin or blanket houses of Plains Indians—are still found widely in South Dakota.

A nutrition professor at Columbia University suggests for school lunches a vitamin A sandwich made of whole wheat bread, butter, and spinach.

In Dutch bulb fields, an inspector seeking disease symptoms in the plant leaves carries a huge umbrella, because the conditions show up only in the shade.

The collapse of the Mongols from rulers of a vast empire to their present unimportance is attributed by one Chinese writer to two causes: their Lamaist religion and the spread of syphilis.

So closely guarded is the crop report of the Department of Agriculture that a business man who accidentally entered the room recently found himself a prisoner for six hours, until the release time at three o'clock.

## 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.

## ARCHAEOLOGY

What did Peking Man eat? p. 204.

## ASTRONOMY

How can solar prominences be studied when no eclipse occurs? p. 197.

What astronomical discovery is due to the new aluminum coat for telescope mirrors? p. 200.

What is the most conspicuous constellation in the western evening sky this month? p. 202.

## BIOLOGY

Is sea water poisonous to plant life? p. 207.

## CHEMISTRY

How does the "Jelmeter" operate? p. 201.

## ENTOMOLOGY

Will a butterfly pick a fight? p. 196.

## ETHNOLOGY

How old is the Ethiopian language? p. 198.

## GENERAL SCIENCE

Who were official delegates from the United States to the American Scientific Congress? p. 200.

## GEOGRAPHY

What is the political importance of Lake Chad? p. 205.

## MEDICINE

Can oxygen be supplied direct to the blood stream? p. 206.

What is a new remedy for smallpox? p. 207.

What medicinal value has the fluid from the birth sac of animals? p. 199.

## METALLURGY

How can aluminum tubing be joined to steel? p. 196.

## PHYSICS

How does man's swiftest pace compare with the speed of light? p. 200.

Is a deuteron a hard, round particle? p. 195.

## PHYSIOLOGY

How can a tendency to high blood pressure be detected in school children? p. 206.

What kinds of food are disliked by college girls? p. 201.

Why is it easier to sunburn after swimming? p. 201.

## POULTRY HUSBANDRY

For what purpose are chickens tattooed? p. 200.

## PSYCHOLOGY

Is "G" the same as intelligence? p. 196.

What branch of science has been neglected in the brain trust? p. 204.

## RADIO

In what manner was a photograph radioed to New York and London simultaneously? p. 200.

## SURGERY

Could you make yourself a satisfactory nose? p. 201.