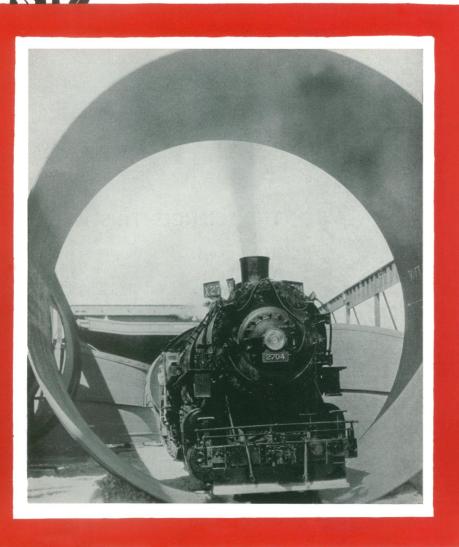
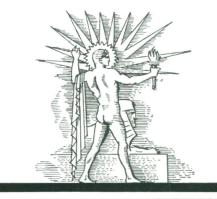
SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE.





MAY 5, 1934



Plenty of Room
See Page 281

SCIENCE SERVICE PUBLICATION

SCIENCE NEWS LETTER

VOL. XXV.

No. 682

Current The Weekly / Summary of V Science

Published by

SCIENCE SERVICE

The Institution for the Popularization of Science organized under the auspices of the National Academy of Sciences, the National Research Council and the American Association for the Advancement of Science.

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 and Foreign subscribers please add \$1 a year to regular subscription rates to cover postage.

In requesting change of address, please give your old address as well as the new one in notification to Circulation Department, SCIENCE NEWS LETTER, 21st and Constitution Ave., Washington, D. C., at least two weeks before change is to become effective.

Advertising rates furnished on application.

Board of Trustees of Science Service

Board of Trustees of Science Service

Honorary President, William E. Ritter, University of California. 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.; Raymond Pearl, Director, Institute for Biological Research, Johns Hopkins University, Baltimore, Md. 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.; David White, Senior Geologist, U. S. Geological Survey. Representing National Research Council, Vernon Kellogg, Secretary Emeritus, National Research Council, Washington, D. C.; C. G. Abbot, Secretary, Smithsonian Institution, Washingon, D. C.; Harrison E. Howe, Editor of Industrial and Engineering Chemistry. 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.

Director, Watson Davis; Staff writers: Frank Thone, Emily C. Davis, Jane Stafford, Marjorie

Thomas L. Sidlo, Cleveland, Ohio.

Director, Watson Davis; Staff writers: Frank Thone, Emily C. Davis, Jane Stafford, Marjorie Van de Water; Librarian, Minna Gill; Sales and Advertising Manager, Hallie Jenkins.

Copyright, 1934, by Science Service, Inc. Republication of any portion of the SCIENCE News Letter is strictly prohibited since it is distributed for personal, school, club or library use only. Newspapers, magazines and other publications are invited to avail themselves of the numerous syndicate services listed by Science Service, details and samples of which will gladly be sent on request.

Members of the American Association for the

Members of the American Association for the Advancement of Science have the privilege of subscribing to the 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.

Publication Office, 1930 Clifton Ave., Baltimore, Md., Editorial and Executive Office, Constitution Ave. at 21st St., N. W., Washington, D. C.

Address all, communications to 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 trade-mark, U. S. and Canadian Patent Offices.

DO YOU KNOW?

Milk contains more pounds of sugar than of fat.

Doctors will meet in Moscow in May for the fourth international congress on rheumatism.

A kind of sugar dissolved in the pine tree's sap is the essential medium for production of turpentine and rosin.

Several thousand samples of Brazilian woods were collected by a botanist who recently returned from the Amazon tributaries.

Recent experiments show that when disease germs enter the tissues, the body begins to fortify itself against the invaders within 48 hours.

A plant specialist says that there has been more progress in date culture in the United States in twenty years than Old World date growers made in twenty centuries.

A Chicago skyscraper is to be completely air-conditioned.

Arizona residents are writing letters on copper to promote the state's leading

The beech bark disease has destroyed a third of Nova Scotia's forest stand of beech timber.

The chief problems of raising plants in modern houses are summed up as: dry air, improper temperatures, and insufficient light.

The U. S. Bureau of Plant Industry recently exhibited golden bantam corn frozen on the cob last summer and cooked on the cob in March.

Dried skim milk, a very useful food item, has never been popular in grocery stores because it was likely to cake and spoil; but a new, moisture-proof bag appears to solve the problem.

WITH THE SCIENCES THIS WEEK

ANTHROPOLOGY

Were the Goths high-brows or low-brows?

ARCHAEOLOGY

Was the stone sculpture of Ur 5,000 years ago very beautiful? p. 284. Ur of the Chaldees—C. Leonard Woolley—Scribner's, 1930, \$2.50.

ASTRONOMY

How are the speed records of stars measured? p. 282.

How is reflection of sound avoided? p. 286. What gas dominates the atmosphere of the ater planets? p. 281.
Where is Nunki? p. 278.

BACTERIOLOGY

What do nitrogen-fixing bacteria feed on? p. 281.

BIOLOGY

How do plants become anesthetic? p. 283.

BOTANY—GEOLOGY

Do plants build rocks? p. 276.

CHEMISTRY

How is charcoal made? p. 277.

EPIDEMIOLOGY

What has the weather to do with sleeping sickness? p. 277.

ETHNOLOGY

How old is the nudist problem? p. 280.

FLORICULTURE

How long can poinsettias be kept? p. 279.

GENERAL SCIENCE
Who received the first Walcott medal? p. 275.

GEOLOGY

What caused the "Bays" of Carolina? p.

MEDICINE

Does standing all day injure the health? p.

What, besides alcohol, causes alcohol neu-roses? p. 281. Alcohol, Its Effects on Man— Haven Emerson—Appleton-Century, 1934, \$1. What electrical charge does diphtheria toxin

carry? p. 275.
Why does thyroid removal relieve the heart? p. 283.

METEOROLOGY
Can a volcano produce ice? p. 284.
How much energy does lightning waste? p.

PHARMACY Where is the new American Institute of Pharmacy? p. 283.

Physics
What idea may explode the "exploding universe" theory? p. 280.
Why are the numbers 136 and 137 interesting? p. 276. The Nature of the Physical World—A. S. Eddington—Macmillan, 1929, \$3.75.

PLANT PHYSIOLOGY
What is a plant's efficiency? p. 281.

PHYSIOLOGY What is auxin? p. 280.

VOCATIONAL GUIDANCE
How can employers aid in vocational adjustment? p. 285. After the Shutdown—E. Clague, W. J. Conper and E. W. Bakke—Institute of Human Relations, Yale, 1934, \$2.

ZOOLOGY

How many legs has a thousand-legger? p.

These curiosity-arousing questions show at a glance the wide field of scientific activity from which this week's news comes. Book references in italic type are not sources of information for the article, but the references for further reading. Books cited can be subplied at Book Department, Science News Letter, at publishers' prices, prepaid in the United States.