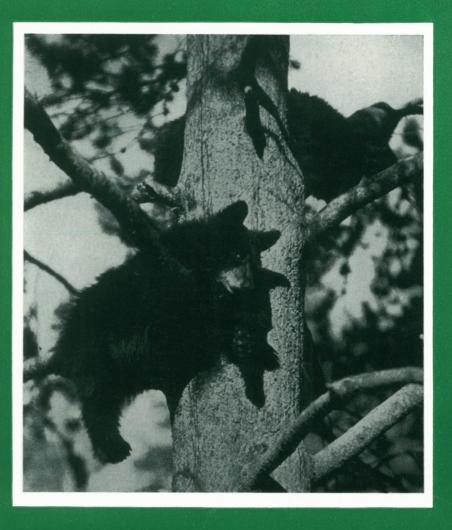
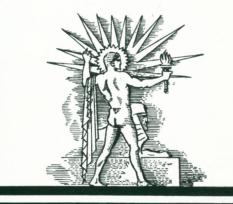
SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE .





NOVEMBER 16, 1935



Off Relief
See Page 310

SCIENCE SERVICE PUBLICATION

SCIENCE NEWS LETTER

DO YOU KNOW?

VOL. XXVIII No. 762 The Weekly Summary of

Current Science

Published Every Saturday by

SCIENCE SERVICE

THE INSTITUTION FOR THE POPULAR-IZATION 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

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 33 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. Republication 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, D. C. Cable address: Scienservc, Washington, D. C. Cable address: Scienservc, Washington, D. C. at the post-office at Baltimore, Md., under the act of March 3, 1879. Established in mimeographed ferm 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

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, pernranent 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.

Ethiopian natives sometimes mark trails by tying knots in flexible saplings.

Danish authorities are revising the spelling of Eskimo place names in Greenland.

Poultry men are now told how to feed hens so as to produce lighter yellow or darker orange egg yolks.

The marten, one of the United States' most valuable fur animals, requires nine months to produce a litter of young.

Texas longhorn cattle, now rare, enjoy protection with big game animals on the Wichita game preserve in Oklahoma.

The late explorer Dr. Peter Kozlov bequeathed to the Soviet government the most valuable collections from his Central Asiatic expeditions.

About 20 tropical and sub-tropical fruits are commercially grown in the United States, but Florida sees wider possibilities, since more than 600 such fruits are known.

Mass production was a familiar idea to Roman industry 2,000 years ago.

Television receiving sets were first shown to the German public at the radio show this year in Berlin.

Serum treatment has reduced deaths due to snake bite in the United States, from over 14 to less than four per cent.

The claim that Vikings reached America almost five centuries before Columbus was first made by Prof. Karl Rafn in 1837.

Because the French scientist Parmentier made the potato popular in France long ago, his grave is covered with potato plants.

When the gray squirrel population becomes too dense in a region to suit the squirrels, there is a huge migration with much excitement.

Three more kinds of American waterfowl are in danger of extinction unless saved: the white pelican, giant blue heron, and black-crowned night heron.

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.

To what height have Soviet scientists sent an instrument-carrying balloon? p. 313.

How old is the oldest athletic "bowl" in Arizona? p. 307.

When were darkened eyes and curlers in vogue for manly men? p. 314.

How can solar prominences be made the subject of movies? p. 312.

How hot are the stars? p. 319.

Where is wild wheat being preserved for study? p. 313.

CHEMISTRY

Can shoes be made from beetles' wings? p. 319.

Where do Negroes live African lives in the Western Hemisphere? p. 313.

EUGENICS

Where are blood tests required of applicants for marriage licenses? p. 313.

Are the everlasting hills changeless? p. 308.

Is lard now considered good for burns? p. 312. What does Dr. Simon Flexner think of infantile paralysis vaccines? p. 312.

What habits are banned for those subject to stomach ulcers? p. 318.

METALLURGY

PALEONTOLOGY

What has been the difficulty in plating iron with aluminum? p. 307.

Why did some dinosaurs shed toes? p. 313.

What rare gas is more abundant in air of the stratosphere? p. 318.

PHYSICS-ASTRONOMY

What is a graviton? p. 309.

PHYSIOLOGY

Can men become used to high altitudes so that they can work just as well as at sea level? p. 316. What substance is like prolan? p. 308.

What will happen if you eat more vitamin D than you need? p. 312.

SEISMOLOGY

Why is an earthquake often followed soon by another in the same region? p. 316.

What do bears like to eat? p. 310.

For the Man of Science

EDITORIAL COMMITTEE

KIRTLEY FLETCHER MATHER,

Geologist

ARTHUR HOLLY COMPTON,

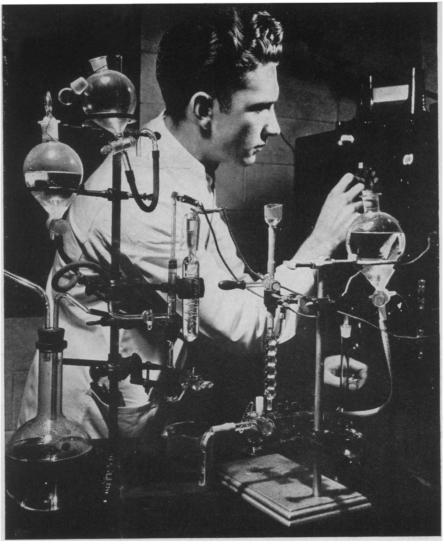
Physicist

EDWIN GRANT CONKLIN,
Biologist

HARLAN TRUE STETSON,
Astronomer

EDWARD LEE THORNDIKE,

Psychologist



Photograph Courtesy of Merck & Co.

There was a time when science, with its seeming magic, belonged to a small and restricted group of men. There was no place, no need, for a scientific book club.

But now science in its many branches is an indispensable part of the business of living. Scientific developments are so frequent, books of scientific interest are so numerous that today the Scientific Book Club fills a definite need.

Six years ago a group of scientists, outstanding leaders in various fields, found that they were besought persistently by associates, students, and friends for information about the newest scientific books. A Club to function as a central clearing house for books of scientific interest was proposed to provide the solution. Seventeen eminent scientists acted as counsellors—five working actively as the Editorial Committee, twelve more available at all times as an Advisory Board. In this way the Scientific Book Club began. In this manner it still functions.

The Scientific Book Club offers a unique program. Its service is designed for the specialist and

the layman alike. It saves both your time and your money. It eliminates inconvenience.

Yet membership in the Scientific Book Club costs you nothing. There are no dues or fees. You are asked only to accept at least six books a year through the Club, at the regular publisher's price plus a few cents for carriage.

Fill out the attached coupon now. You will receive a free book to start your membership.

ENI	ROLLMENT COUPON
SCIENTIFIC BOOK CI	LUB, INC., SS
80 Lafayette S	treet, New York, N. Y.
me without cost the bo take more than six boo notify you promptly du ed. The price of the bo lisher's price plus post	as a subscriber to your service and service consisted to the checked below. I am not committed the desired the coming year and I agree the coming any month in which no book is wan book sent me each month is to be the pulage. A bill is to be sent with each book within 10 days of receipt.
☐ The Romance of Mountaineering—	NAME
R. L. G. Irving Fishes and Their	ADDRESS
Ways of Life— Louis Roulé	CITY AND STATE

It is time to begin thinking about CHRISTMAS

Here is an ideal \$1.00 gift

Seventeen issues—nearly one third of a year—of SCIENCE NEWS LETTER

Send this coupon to SCIENCE NEWS LETTER . . . Washington, D. C. You can pay for the gifts in January, 1936

Send to	
Science News Letter 2101 Constitution Avenue Washington, D. C.	
This order is from:	
Your Name	
Street Address	•
CITY AND STATE	-
Kindly send seventeen issues of Science News Letter to each of the following, starting with the issue for Christmas week, and bill me at \$1.00 each, in January, 1936.	
Name	
Street Address	
CITY AND STATE	•.
• • •	
Name	•-
Street Address	
CITY AND STATE	
• • •	
Name	
Street Address	
CITY AND STATE	•-
• • •	
Name	•
Street Address	
City and State	_
over	•