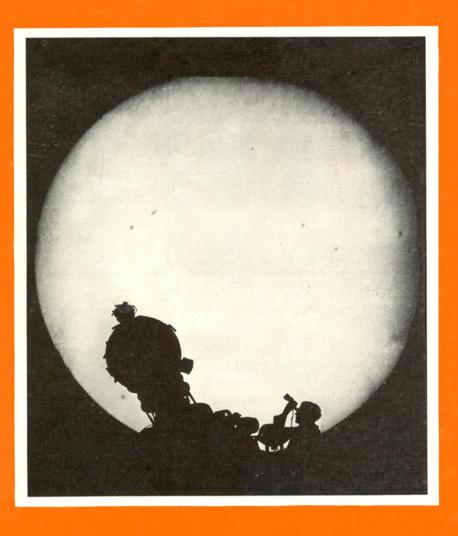
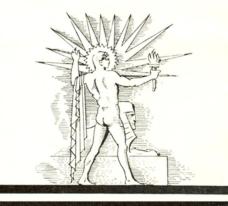
SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE.





August 20, 1938



Sunspots Indoors

See Page 120

A SCIENCE SERVICE PUBLICATION

Do You Know?

A new form of magnesium carbonate produces a greater transparency in rub-

Nineteen states have adopted the American Standard for saftey glass in automobiles.

The fastest clipper ships sailed from New York to San Francisco around the Horn in 89 days.

In tornado country, some of the filling stations are being equipped with cyclone cellar hotels.

Germany is trying to make felt hats out of milk wool, that is, wool made chiefly out of casein.

Harps, horns, and trumpets made music in old Mesopotamian cities, but the violin type of instrument was devised in India later.

It takes over 100,000,000 pounds of insecticides every year to keep insect pests from overwhelming United States crops and homes.

An ox cart used in transporting sacred animals to sacrifice in 225 B. C. was found in a vault of a temple on the Nile, and is now in the United States.

At the Leipzig Spring Fair, remedies exhibited this year included a variety of raw juices, including onion, peppermint, dandelion, birch leaf, and black radish.

QUESTIONS DISCUSSED IN THIS ISSUE

Most articles which appear in Science News Letter are based on communications to Science Service, or on papers before meetings. Where published sources are used they are referred to in the article.

AERONAUTICS

When will the Polish stratosphere ascension take place? p. 120.

ARCHAEOLOGY

Why do kings have wings? p. 115. What is a banner stone? p. 124.

What is "brown sauce" on a painting? page 124.

ASTRONOMY

How far away is the new-found Fornax cluster? p. 115.

Where has the sun been brought indoors?

Is there scrap iron between the stars? p. 122.

BACTERIOLOGY

Where are Ice Age bacteria to be studied? p. 121.

BIOLOGY

How do animal cells benefit from the presence of green plant cells? p. 121.

How was "dry spinning" of rayon discovered? p. 123.

DEMOGRAPHY

Where do America's leaders come from? p. 126.

ETHNOLOGY

What scares Ainu women? p. 121.

MEDICINE

What is the worst thing you can do if you have appendicitis? p. 123.

PHOTOGRAPHY

Can photographs be taken with anything but light rays? p. 119.

How high did the cosmic ray balloons fly? p. 120.
Why are the Northern Lights silent? p.

PHYSIOLOGY

How can the sex of unborn rats be changed? p. 120. Why is butter a valuable food? p. 123.

PLANT PHYSIOLOGY

How do plants make use of the principles of water cooling? p. 121.

PSYCHIATRY

Who launched the mental hygiene movement? p.~121.

PSYCHOLOGY—ENGINEERING

Why should auto bodies have more glass in them? p.~120.

How many cities had no deaths from either diphtheria or typhoid in 1937? p. 125.

SCIENCE

Whence come present threats to the freedom of science? p. 117.

SOCIOLOGY

How long should you wait before getting married? p. 122.

ZOOLOGY

Of what possible use is an Eland? p. 116. What has become of Montezuma's zoo? p.

North Dakota is trying to cross varieties of watermelon to produce a superior kind.

A large oak tree may have enough leaves to cover two acres, if spread in a carpet.

Bird's-eye pattern of maple is the result of buds forming under the bark, and unable to break through.

Holland dried out 48,000 acres of the Zuider Zee in 1930, and began reclaiming another 110,000 acres in 1936.

SCIENCE NEWS LETTER

AUGUST 20, 1938

The Weekly Summary of Current Science, published every Saturday by SCIENCE SERVICE, Inc., 2101 Constitution Avenue, Washington, D. C., Edited by WATSON DAVIS.

Subscriptions—\$5.00 a year; 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.

Members of the American Association for the Advancement of Science have privilege of subscribing to SCIENCE NEWS LETTER at the reduced price of \$3 per year. Applications 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, at least two weeks before change is to become

Copyright, 1938 by Science Service, Inc. Republication of any portion of SCIENCE NEWS LETTER is strictly prohibited. Newspapers, maga-

zines and other publications are invited to avail themselves of the numerous syndicate services issued by Science Service.

Cable address: Scienservc, Washington.

Entered as second class matter at the post-office at Washington, D. C., under the act of March 3, 1879. Established in mimeographed form March 18, 1922. Title registered as trade-mark, U. S. and Canadian Patent Offices. In-dexed in Readers' Guide to Periodical Literature and in the Engineering Index.

Advertising rates on application. Member Audit Bureau of Circulation.

SCIENCE SERVICE is 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.

Board of Trustees—Honorary President: William E. Ritter, University of California, Representing the American Association for the Advancement of Science, J. McKeen Cattell, Editor, Science, Garrison, N. Y.: Henry B. Ward, University of Illinois, Urbana, Ill.; Edwin G. Conkin, President, American Philosophical Society, Philadelphia, Pa. 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, C. G. Abbot, Secretary, Smithsonian Institution, Washington, D. C.; Harrison E. Howe, Editor of Industrial and Engineering Chemistry, Washington, D. C.; Ross G. Harrison, Director, Osborn Zoological Laboratory, Yale University, New Haven, Conn. Representing Journalistic Profession, John H. Finley, Editor, New York Times; J. Edwin Murphy, Managing Editor, Baltimore Evening Sun, Baltimore, Md.; O. W. Riegel, Director, Lee School of Journalism, Washington and Lee University, Lexington, Va. Representing E. W. Scripps Estate, Harry L. Smithton, Treasurer, Cincinnati, Ohio; Warren S. Thompson, Miami University, Oxford, Ohio. Staff—Director, Watson Davis; Writers, Frank Thone, Emily C. Davis, Jane Stafford, Mariorie Van de Water, Robert Potter, Leonard Engel; Correspondents in principal cities and centers of research. Photography: Fremont Davis; Librarian: Minna Gill; Sales and Advertising: Hallie Jenkins, Austin Winant, Howard Bandy.