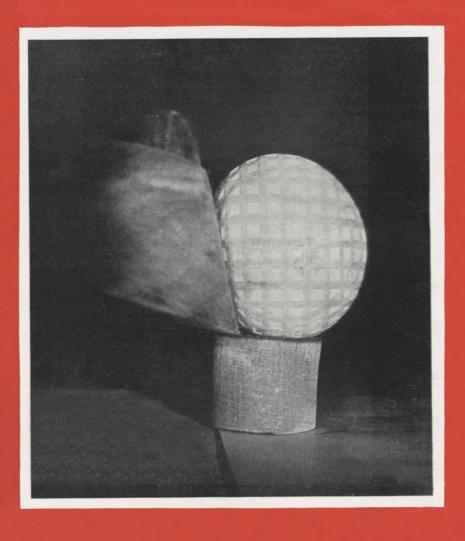
SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE .





DECEMBER 3, 1932



"Knocking It Sideways"

See page 354

CIENCE SERVICE PUBLICATION

SCIENCE NEWS LETTER

VOL. XXII

No. 608

The Weekly Summary of



Current 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.

In requesting change of address, please give old as well as new address.

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, I. 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, National Research Council, Washington, D. C.; 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, Washington, D. C.; Harrison E. Howe, Editor of Industrial and Engineering Chemistry. Representing Journalistic Profession, John H. Finley, Associate Editor, New York City, Marken, 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

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

Manager, Hallie Jenkins.

Copyright, 1932, 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 issued by Science Service, details and samples of which will gladly be sent on request sent on request.

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. 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. Cable address: Scienserve, 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 THAT

An entire city block of model homes is being built on the fourth floor of a St. Paul department store.

The first European animal to be introduced into New Zealand was the pig, brought by Captain Cook in 1773.

Dairy specialists have developed a dry air sterilizing process for milk cans and utensils, said to be better than the steam method.

Stainless steel will find a new usefulness in making dental crowns and bridges, if "modernistic" teeth produced in Germany find favor.

An aviator riding 10,000 feet above the earth can see the sunrise more than ten minutes before it is seen by a man on the ground directly beneath him.

Avocado fruit requires several days in which to soften after it is picked, and experimenters find that this storage temperature should be not lower than 45 degrees Fahrenheit.

From crude petroleum no less than 260 products, ranging from asphalt to chewing gum, are obtained.

The Soviet Union has formed a committee to take charge of protection and restoration of historic monuments in

Baby diamond-back terrapins that were fed through their first winter, instead of hibernating, gained a year's growth.

A rubber company announces as something new in tire improvements a rubber covered valve for automobile tire tubes.

Two new uses for milk sugar have been found, presenting a strong contrast: one is in certain kinds of confectionery and the other in explosives

Using a metallic "sponge" to soak up the Vitamin A, a chemist of Oberlin College has succeeded in isolating this vitamin from halibut liver oil.

WITH THE SCIENCES THIS WEEK

Curiosity arousing questions for the teacher and general reader. Book references in italic type are not sources of information of the article, but are references for further reading. Books cited can be supplied by Librarian, Science Service, at publisher's price, prepaid in U. S.

Could Mycenaeans converse with the men of Knossos? p. 357.
Who writhed at Monte Alban, and why? p.

AVIATION
Why are parachutes useless in Bolivia? p.

352.

BIOGRAPHY
What did Leeuwenhoek do for a living? p. 360.
To whom has the Royal Society recently awarded honors? 361.

Are red cedars really cedars? p. 362.

CHEMISTRY
Wherein does Neuton differ from other elements? p. 352. Recent Advances in Atomic Physics—Gaetano Castelfranchi — Blakiston (2 vols.), 1932. 88.

How are fabrics made crease-proof? p. 357.

Cosmogony

How might the early stages of cosmic evolution have run at super-speed? p. 351. The Nature of the Physical World—A. S. Eddington—Macmillan, 1928, \$3.75.

EDUCATION-PHOTOGRAPHY
How are "talkies" being used in teaching? p.

Engineering Where do tires live longest? p. 360.

ENTOMOLOGY
What is the mosquito's Lorelei? p. 361.

What Asiatic mountains resemble the Alps in structure? p. 352.

HORTICULTURE
Who is Michurin? p. 353.

Invention INVENTION

Does a photocell "know its eggs?" p. 356.

Photocells and Their Application—V. K.

Zworykin and E. D. Wilson—Wiley, 1930 What did "linotype" originally mean? p. 358.

MEDICINE How can the cost of medical care be cut? p.

METEOROLOGY Where do balloons go down? p. 356.

PHYSICS
What is quicker than a wink? p. 354.
How can research physicists use electron streams? p. 357.
How can the moon's pull be measured? p.

PSYCHOLOGY Can driving be made foolproof? p. 362.

RADIOLOGY How are wax models useful in X-ray work? p. 353.

SEISMOLOGY What shocked Tartary? p. 360.

SOCIOLOGY
How long does it take to fill a job? p. 356.

VOLCANOLOGY Can volcanic eruptions be predicted? p. 353. Volcanoes—G. W. Tyrrell—Holt, 1931, \$1.25.

Which Friends

Which friends would value this as a Christmas Gift?

OUR CHRISTMAS gifts will be appreciated, of course. But don't you wish you could be sure that they will be just as useful as they will be appreciated.

You would be positive of their usefulness if you could give something that has proved itself to you. Then why not use Science News Letter as a "tested" gift for true friends? If its thoroughness, accuracy and brevity have brought you satisfaction and pleasures, these same qualities will be really useful to many whose names are on your Christmas list.

So take the guess out of giving. Take no chances with "untried" gifts. Send Science News Letter and then rest assured that you have given one of the most appropriate remembrances, not only because it will be received 52 times during the year but also because of the special Christmas wrappings that are to enclose the first copy of your gift subscription.

We wager you have thought of remembering friends with this or some other magazine at the holiday season. But then you may have changed your mind because in giving magazine subscriptions all you could present was an unexciting envelope with a gift card in it! The magazine itself would arrive sometime later in its usual drab covering.

But now all this is different. Plans have been made for the first Science News Letter of your gift subscription to arrive with all the flurry and joy of Christmastide.

The first copy will greet your friends beautifully wrapped and enclosed in a crinkly paper, holly green Christmas box. Each box will be sent by Special Delivery mail to be delivered in the midst of the excitement of December 25.

And what's more, your gift box will contain a silver and fire-cracker red Christmas card with your name on it. (See the illustration here.)

Isn't this a wonderful way to give the SCIENCE NEWS LETTER as a Christmas present? And surely, it is an unusual gift. A badge of intelligent comprehension. It is the nation's only magazine that unfolds weekly the story of science to the lay reader. It is interesting, accurate and authoritative; and as a gift it will be delivered 52 times in the year instead of only once!



To Science News Letter 21st and Constitution Ave., N. W., Washington, D. C. Coupon No. 120332 Please enter for [] 1 year [] 2 years the following subscriptions to SCIENCE NEWS LETTER and bill me: GIFT TO GIFT TO Name Name Street Street Address Address . City and City and State My Name and Address-Send Bill to: GIFT TO Name Name Street Street Address . Address ... City and State City and State If, in addition to the gifts, you want your subscription extended for one year at the reduced rate; check here [] No extra charge for postage to anywhere in the world. Two or more one year subscriptions, \$3.50 each

with your name on it. Delivery by special delivery mail.