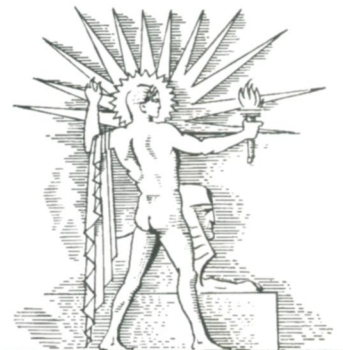
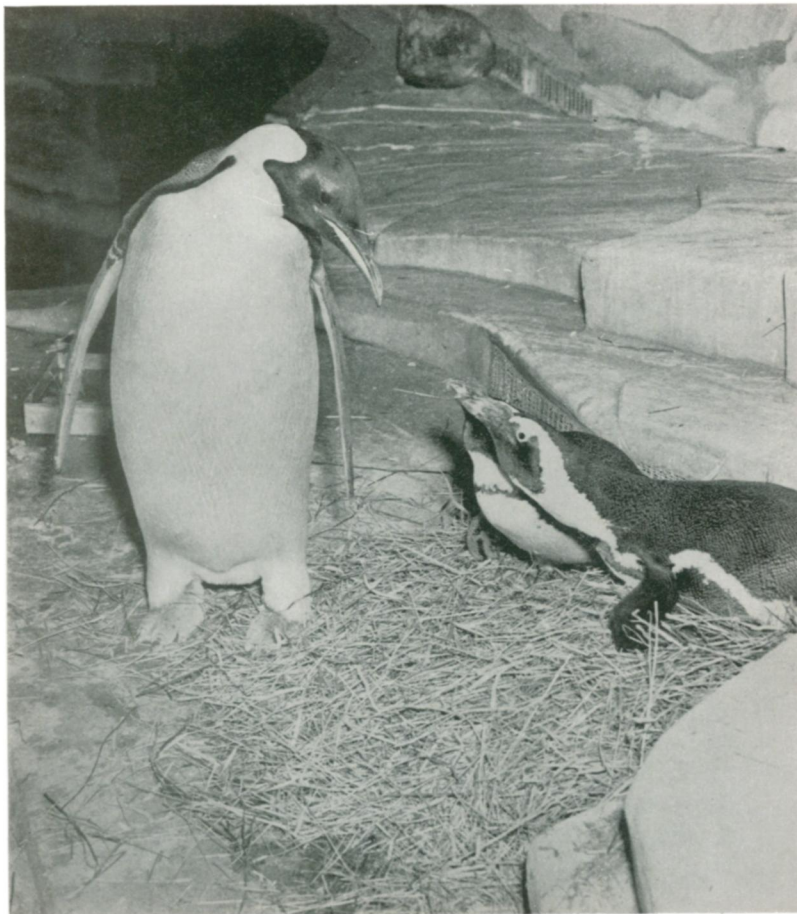


PRICE
15¢

SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE •



March 16, 1940

Imperial Majesty

See Page 168

A S C I E N C E S E R V I C E P U B L I C A T I O N

Do You Know?

Ancient Peruvians prized *chinchilla* fur and used it for coverings and other articles.

In downtown Galveston, Texas, *air conditioning* will be operated as a public utility on a metered service.

First steamship used in Arctic exploration was the British ship *Victory*, which voyaged in the Canadian Arctic with difficulties in 1829.

To make sure that budding scientists in Germany advance no anti-Nazi views, scientific theses written for doctoral degrees must pass the *censor*.

Lemonade was sold as a scurvy remedy by medieval pharmacists in Florence, although not until recently has science understood the vitamin C value of citrus fruits.

The world's smallest fish has been a *goby* found in one mountain lake in the Philippines—female about half an inch long, male smaller; but a new-found marine goby may be smaller still.

A new melting technique is said to solve the problem of firmly bonding stainless *steel* with ordinary steel, thereby combining value of the former with economy of the latter in making tools and other articles.

Advising that *refugee* physicians establish practice in districts needing doctors, the National Committee for Resettlement of Foreign Physicians says that whole counties in some states are apparently without one resident doctor.

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.

ARCHAEOLOGY

By what process was the world's first steel weapon made? p. 168.

Why did dead Pharaohs have to move? p. 169.

What are Ireland's Long Barrows? p. 172.

ARCHAEOLOGY—METEOROLOGY

What scientific task did a Gothic angel have? p. 163.

ASTRONOMY—PHYSICS

What scientific use is to be made of the coming annular eclipse? p. 165.

BOTANY

Where would this copy of the SCIENCE NEWS LETTER be if there were no cambium? p. 173.

ENGINEERING

How is concrete hardened by blotting? p. 168.

Why is it important to have the softest possible copper in electrical conductors? p. 173.

How can oil be brought up by pumping it down? p. 174.

GENETICS—MEDICINE

How are rabbit embryos affected by transplantation? p. 166.

MEDICINE

What is methylcholanthrene? p. 164.

How are machines helping in the war against cancer? p. 164.

Where was synthetic adrenal hormone first used in preventing surgical shock? p. 174.

METALLURGY

How can an endless metal rod be made? p. 171.

PHILATELY

Why might George Washington appropriately be honored with a "science stamp"? p. 169.

PHYSICS

What kind of waves are used in telling temperatures at a distance? p. 175.

PHYSICS—MEDICINE

How can whirling help diagnose disease? p. 163.

What do X-rays do to indium? p. 168.

POPULATION

Who will need old age pensions in 1985? p. 166.

PSYCHIATRY

Can mental disease be relieved by surgery? p. 175.

PSYCHOLOGY

Does military drill make militarists? p. 172.

RADIO

For whom is purchase of a television set now advisable? p. 165.

STATISTICS

Why are old people writing letters to the Census Bureau? p. 167.

TECHNOLOGY

How can pickles be "bottled" in a bag? p. 170.

Experiments indicate that *beetles* that spread the Dutch elm disease may be carried considerable distances on the wind.

Europe's second oldest university, the University of *Krakow*, has been closed by German officials, after an unbroken career from 1364.

German toilet *soaps* used to contain about 80% fat, but now not more than 40% is allowed, and materials such as clay and water glass are added.

Buffalo meat will be served to university and college officials from various states when they confer at the University of Oklahoma early in April.

SCIENCE NEWS LETTER

Vol. 37 MARCH 16, 1940 No. 11

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.

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 effective.

Copyright, 1940, by Science Service, Inc. Republication of any portion of 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.

Cable address: Scienserv, 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 trademark, U. S. and Canadian Patent Offices. Indexed in Readers' Guide to Periodical Literature, Abridged Guide, and in the Engineering Index.

Members of the American Association for the Advancement of Science have privilege of subscribing to SCIENCE NEWS LETTER at \$3 a year.

The New York Museum of Science and Industry has elected SCIENCE NEWS LETTER as its official publication to be received by its members.

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 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, Edi-

tor, Science; Henry B. Ward, University of Illinois; Edwin G. Conklin, *President*, American Philosophical Society. Representing the National Academy of Sciences: W. H. Howell, *Vice-President and Chairman of Executive Committee*, Johns Hopkins University; R. A. Millikan, California Institute of Technology; Harlow Shapley, Harvard College Observatory. Representing National Research Council: C. G. Abbot, Secretary, Smithsonian Institution; Harrison E. Howe, Editor, Industrial and Engineering Chemistry; Ross G. Harrison, Yale University. Representing Journalistic Profession: John H. Finley, Editor, New York Times; Neil H. Swanson, Baltimore Evening Sun; O. W. Riegel, Washington and Lee School of Journalism. Representing E. W. Scripps Estate: Harry L. Smithton, *Treasurer*, Cincinnati, Ohio; Warren S. Thompson, Miami University, Oxford, Ohio; Karl Bickel, E. W. Scripps Co.

Staff—Director, Watson Davis; Writers, Frank Thone, Emily C. Davis, Jane Stafford, Margorie Van de Water, Robert Potter; Correspondents in principal cities and centers of research. Photography: Fremont Davis; Librarian: Minna Gill; Sales and Advertising: Hallie Jenkins, Austin Winant, Howard Bandy.