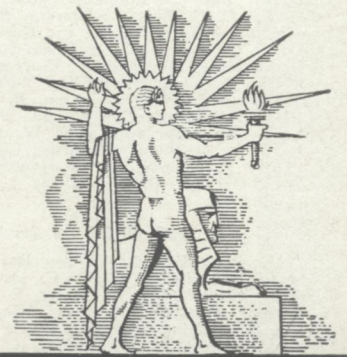
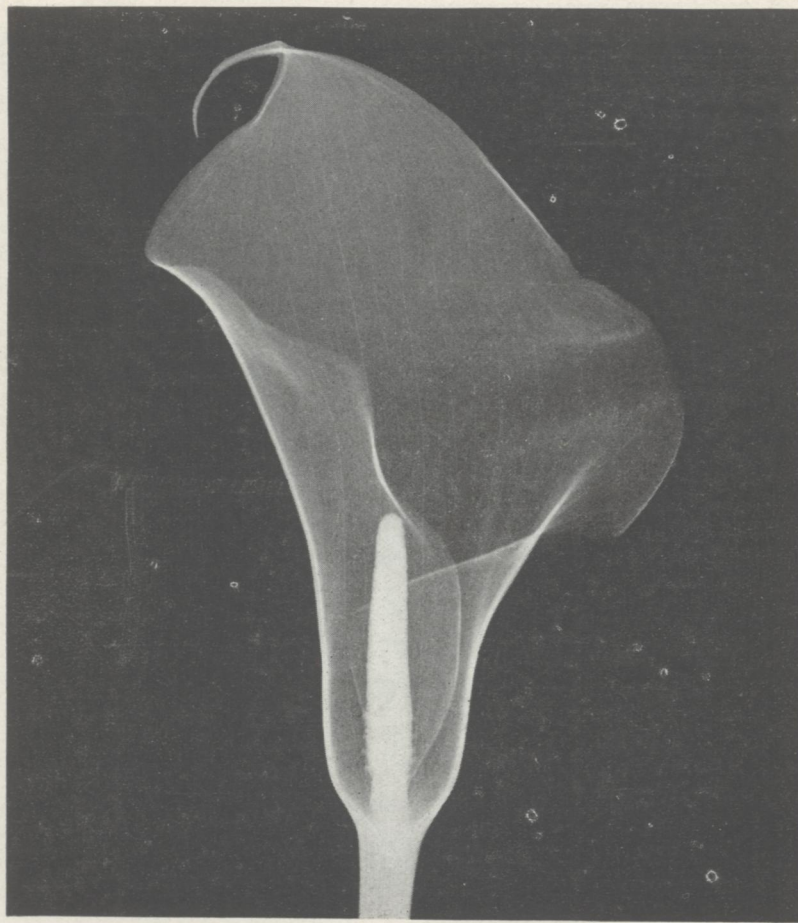


PRICE
15¢

SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE



OCTOBER 10, 1931

To the Heart of a Flower by X-Ray

See Page 232

A

SCIENCE SERVICE PUBLICATION

SCIENCE NEWS LETTER

VOL. XX

No. 548

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 Science, 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.

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

Advertising rates furnished on application.

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*, 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*, Permanent Secretary, 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 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

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

Copyright, 1931, by Science Service, Inc. Reproduction 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.

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. Cable address: Scienservice, 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. Patent Office.

DO YOU KNOW THAT

A herd of Afrikander cattle is to be imported into Gulf states from South Africa.

No part of the United States is entirely exempt from frost except certain of the Florida Keys.

Chemists have produced a new compound for use in covering wooden shoe heels, which is said to be scuff-proof.

The London Zoo once had an albino cobra, almost entirely white and with pink eyes.

A well-known naturalist found one prairie dog town that covered several thousand square miles and had a population of about 400,000,000 prairie dogs.

The center of population of the United States has moved 22 miles west and about $7\frac{1}{2}$ miles south in the past ten years, and is now located in Greene County, Indiana, near Linton.

The word magnet comes from the fact that the best specimens of lodestone are obtained from Magnesia, a city in Asia Minor.

That a great drought commenced in 1276 and extended for a 23-year period is shown by the studies made of the annual rings of old trees by Dr. A. E. Douglass.

A survey of the number of prescriptions filled by Maryland pharmacists shows that in this one state 3,347,000 prescriptions were filled in one year.

Experiments in which the entire cotton plant is used in making rayon are being conducted by the University of North Carolina.

The Greek physician Galen, who lived in the second century A. D., advocated for his feminine patients a cosmetic cream made of white wax and rose oil, and this preparation remained in pharmaceutical use for centuries.

WITH THE SCIENCES THIS WEEK

AGRICULTURE			
Science and Starvation	238	GEOGRAPHY	
ARCHAEOLOGY		Is this Continent Misnamed?	228
Ancient Philistine Stronghold	232	GEOPHYSICS	
Counterpart of Modern Church	233	Probing the Earth's Interior	229
Excavating in Ancient Athens	227	INVENTION	
New Law for Greek Museums	233	A One-Eyed Robot	236
Relics from Mexico City	238	The Franklin Stove "A Classic Invention"	230
ASTRONOMY		MEDICINE	
Stories in October Skies	234	Cancer in Digestive Tract	229
ASTROPHYSICS		Skin no Disinfectant	238
How Atoms in Space Behave	232	MINE SAFETY	
BOTANY		Coal Dust Explosions	229
Flower Juices in New Role	236	NATIONAL PARKS	
Norway Maple—"Nature Ramblings"	239	Must the Elephant Disappear?	237
Revealing the Flower's Heart	232	PHYSICS	
CHEMISTRY		Huge Natural Magnet	229
Harmless Cleaning Agent	236	Rejuvenating Tired Glass	232
ENGINEERING		Says Universe is Exploding	228
Building a Lagoon	239	PHYSIOLOGY	
Hear from Refrigeration	233	Oxygen for Mt. Everest	239
ENTOMOLOGY		PSYCHOLOGY	
Insect Families of One Sex	231	Badness in Bad Boys	232
War with the Insects	237	Causes of Forgetting	233
GENERAL SCIENCE		Small Family Brightest	228
Book Reviews	240	PUBLIC HEALTH	
GENETICS		Ship Fumigation Studied	233
Insect Families of One Sex	231		

Science Service presents over the radio, an address

THE EVER-CHANGING LANDSCAPE

By Dr. H. C. Cowles, professor of plant ecology at the University of Chicago.

Friday, October 16, at 3:45 P. M., Eastern Standard Time

Over Stations of

The Columbia Broadcasting System