SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE.





APRIL 25, 1931



Not a Fairy's Furry Opera Cloak

See Page 259

SCIENCE SERVICE PUBLICATION

SCIENCE NEWS LETTER

VOL. XIX

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. 15 cents a copy. Ten or more copies to same address, 5 cents a copy. Special reduced subscription rates are available to members of the American Association for the Advancement of Science.

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, 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, John C. Merriam, President, Carnegie Institution of Washington; R. A. Millikan, Director, Norman Bridge Laboratory of Physics, California; David White, Vice-President and Chairman of Executive Committee, 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. Representating Journalistic Profession, John II. 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. Smithon, Treasurer, Cincinnati, Ohio; Robert P. Scripps, Scripps-Howard Newspapers, West Chester, Ohio; Thomas L. Sidlo, Cleveland, Ohio.

Staff of Science Service

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

Copyright, 1931, 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.

Publication Office, 1930 Clifton Ave., Baltimore, Md. Editorial and Executive Office, Constitution Ave. at B 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 postoffice 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

The Bible contains 290 references to birds, and of these 177 refer to definite

A fourteenth century battle gauntlet recently dug up in Gothland consists of 106 small iron plates.

A mysterious lung disease which has been found in 125 miners is tentatively thought to be due to a fungus infec-

Fish that swim in open water are likely to be bluish or metallic in coloring, whereas fish that stay at the bottom of a stream are more often mottled or striped like the stones and sand.

American medical colleges graduate only about 200 women doctors a year.

The New York City aquarium provides seven different kinds of water for its various fishes.

It has been demonstrated that leather can be made waterproof on the outside and still allow perspiration to pass from the inside of a shoe 80 per cent. as fast as from the bare foot.

Snakes have no eyelids.

A project to establish a \$10,000,000 Gaelic university in the Scottish highlands is under way in the United States.

Through the aid of a continual flow of oxygen, sparkling pure water and fertilizers are now produced from sew-

While the United States was experiencing a mild winter this year, Harbin, Manchuria, reported an excessively cold winter, with temperature falling 45 degrees below zero and more than a thousand persons frozen to death in the streets.

WITH THE SCIENCES THIS WEEK

	GENERAL SCIENCE	
265	First Glances at New Books	272
	Home Economics	
	The President's 24-cent Meal	265
	MEDICINIE	
271		265
		20)
260	•	264
		269
259		266
		264
		201
267		260
	Soybeans Ideal Human Food	260
259	PHYSICS	
		262
271		260
		266
265		
		264
262		269
		265
264		
		264
264		261
_		
261	Best City Speed	266
	261 269 271 260 259 000ns 264 267	261 262 263 264 269 271 260 271 260 271 260 271 260 272 260 273 260 275 260 276 277 277 280 290 291 292 293 294 295 295 296 297 297 298 298 298 298 299 299 299 299 299 299

Science Service presents over the radio, an address

RADIO AND RESEARCH

By Dr. A. E. Kennelly, professor emeritus of electrical engineering at Harvard University, who shared in the discovery of the Kennelly-Heaviside ionized layer.

Friday, May 1, 2:45 P. M. Eastern Standard Time

Over Stations of

The Columbia Broadcasting System

Second Edition---Entirely Rewritten

The VITAMINS

H. C. Sherman

Mitchill Professor of Chemistry, Columbia University

and

S. L. Smith

Senior Chemist, Office of Experiment Station, United States Department of Agriculture

A. C. S. Monograph No. 6

K NOWLEDGE OF THE VITAMINS has grown so greatly during the past few years that there is today a very great need for a new book on the subject.

This monograph has now been entirely rewritten and brought down to date with the intention of making it distinctly the outstanding book in its field.

It undertakes to treat its field both broadly and thoroughly, each of the six vitamins now generally recognized being discussed in its various aspects—the physical properties, the evidence as to purely chemical nature, the biological relationships and occurrence in nature, the methods of determination, the distribution in foods, and the significance as a factor in food values and in relation to nutrition and health.

In addition to this broadly inclusive text, the book contains an extraordinarily comprehensive bibliography arranged and set up in a manner which makes it exceedingly easy and practical to use.

The volume is thus designed to serve agriculturists, biologists, chemists, dietitians, food manufacturers and their technologists, home economics and nutrition workers, physicians, teachers, and many other readers interested in the present-day development of science and in the problems of food and health. To many students in this varied field, the bibliography alone may well be worth the price of the book.

TABLE OF CONTENTS

Chapter I. General Introduction to the Vitamin Theory

CHAPTER II. VITAMIN B (B₁)
Antineuritic and Growth-promoting Functions. Chemical Nature. Physiological Properties and Relation to Nutrition and Health. Distribution in Foods. Quantitative Determination. Physico-chemical Properties.

CHAPTER III. VITAMIN G (B₂)
Differentiation from Vitamin B. Concentration. Quantitative Determination. Physico-chemical Properties. Distribution in Foods. Relation to Nutrition.

CHAPTER IV. VITAMIN C
Vitamin C Requirements of Different Species. Relation to Nutrition and Health. Quantitative Determination. Occurrence and Stability in Foods. Chemical Nature.

525 Pages

CHAPTER V. VITAMIN A

Physico-chemical Properties and Progress toward Isolation. Formation in Nature. Measurement of Vitamin A Values. Occurrence in Foods. Relation to Nutrition and Health.

CHAPTER VI. VITAMIN D
Anthrachitic Effects and Relations to Nutrition and Health. Formation by Irradiation. Chemical Nature. Quantitative Measurement. Food Sources of Vitamin D.

CHAPTER VII. VITAMIN E
Distribution in Foods. Relation to Nutrition. Physical and Chemical Properties. Attempted Isolation.

INDEX OF AUTHORS

INDEX OF SUBJECTS

Illustrated

Price \$6.00

THE CHEMICAL CATALOG COMPANY, INC.

419 Fourth Avenue

NEW YORK, U.S.A.