SCIENCE

Vol. 83 Friday	y, April 3, 1936	No. 2158
The Harvard Tercentenary Conference of Arts and Sciences A Stratigraphic View of Geography: Professor Eugene Van Cleef Obituary: George Williamson: Gordon Gunter. Recent Deaths Scientific Events: Committee on Forestry of the National Research Council of Canada; The Federal Water Conservation Program; Appeintment of Dr. James T. Jardine as Director of Research of the U.S. Department of Agriculture; Awards of the Medals of the Franklin Institute Scientific Notes and News Discussion: Observations on the Cultivation of Poliomyelitis Virus: Dr. Frederick Eberson. The Vitamin C	311 Awards of the Ella Sach 313 Special Articles: The Ability of Rats to I of Varying Degrees of Franke and Van R. Po on Continental Slopes a Professor H. H. Hess Scientific Apparatus and Measurement of the Atached Leaves: Dr. John Quartz Mercury Arc: Dr. 321 Science News	rea of Attached and De- TW. MITCHELL. A Simple L. A. J. ALLEN 334
Content of Apples and Its Relation to Human Welfare: Dr. W. Franklin Dove and Elizabeth Murphy. Determination of the Chloroplast Pigments of Plants: Professor A. E. Murneek. Vertebrate Localities in South Park, Colorado: Professor J. T. Stark and Others. Occurrence of the Malone and Torcer Faunas at the Base of the Arizona Comanchean: Professor A. A. Stoyanow Scientific Books: Anatomy of Vertebrates: Professor L. B. Arey. Zoology: Professor A. S. Pearse	ment of Science, edited by lished every Friday by THE SCII New York City: G Lancaster, Pa. Annual Subscription, \$6.00	ournal devoted to the Advance J. McKeen Cattell and pub ENCE PRESS rand Central Terminal Garrison, N. Y Single Copies, 15 Cts organ of the American Associa of Science. Information regard sociation may be secured from t secretary, in the Smithsonian ington, D. C.

THE HARVARD TERCENTENARY CONFERENCE OF ARTS AND SCIENCES

A DISTINGUISHED gathering of learned men will take place at Harvard University from August 31 to September 12, when seventy-five scientific men and scholars, including fourteen Nobel laureates, will meet for the Harvard Tercentenary Conference of Arts and Sciences. Announcement of the program was made on March 26 by Jerome D. Greene, director of the Tercentenary Celebration.

Daily sessions will be held for two weeks, at which leaders in the physical sciences, biological sciences, social sciences and humanities will speak. They will address themselves chiefly to the fundamental problems of science and society rather than to particular aspects of applied learning.

Since the American Mathematical Society, the Mathematical Association of America, the Institute of Mathematical Statistics and the American Astronomical Society will hold meetings in Cambridge as guests of Harvard University during the first week of September, the sections of the Tercentenary Conference which deal with mathematics, astronomy and cosmogony will be coordinated with their meetings.

Europe will be represented by forty-seven of the speakers, the United States by twenty-one, and Japan, China, Argentina, Canada and Australia, combined, by seven. The number from each country is: United States, 21; England, 12; Germany, 10; France, 6; Switzerland, 5; Italy, 4; Japan, Denmark, Scotland, Sweden and Canada, 2 each; and Holland, Argentina, Norway, Czechoslovakia, Australia, China and Austria, one each. The Harvard faculties, as hosts, will not be included among the speakers.

Nobel laureates taking part in the conference are Albert Einstein, physics, United States; Niels Bohr, physics, Denmark; Hans Fischer, chemistry, Germany; Arthur H. Compton, physics, United States;

$READY\ IN\ APRIL\ \equiv$

HILL, OVERHOLTS AND POPP'S

TEXTBOOK OF BOTANY

By JOHN BENJAMIN HILL

Professor of Botany

LEE O. OVERHOLTS

Professor of Botany

and HENRY W. POPP

Associate Professor of Botany
All at The Pennsylvania State College

Approximately 625 pages, 6 x 9, fully illustrated, \$4.00

McGRAW-HILL PUBLICATIONS IN THE AGRICULTURAL AND BOTANICAL SCIENCES

CLEAR, complete explanations without oversimplification are a most important feature of this new textbook. The sequence of subjects is believed by the authors to be the most suitable one for classes beginning in the autumn. In determining this sequence, the authors have taken into consideration not only the logical advantage of passing from the relatively simple to the more complex, but also the expediency of introducing a subject when living materials are available for its study. Thus, coloration in plants is discussed first, followed by a consideration of the cell and then of the leaf and its physiology. The root has been taken up before the stem because the former is relatively a simpler structure. Special emphasis is placed upon physiology and growth and metabolism.

Special Features

Throughout the first part of the book, the physiology of an organ is considered in connection with its structure in general, but not at the expense of other phases of the subject.

In Part II, devoted entirely to a consideration of the different groups of plants, an attempt has been made to give an adequate and balanced survey of the plant kingdom without undue emphasis on any one group.

The book is up to date, presenting the latest developments on the life history of the lily and the life history of the pine.

The chapter on growth is more complete than usual.

Stress is laid on the physiological importance of color.

The illustrations are, with few exceptions, new and original with the authors, who have endeavored to make them correct in every detail. Microscopic views of plant tissues are mostly either photomicrographs or camera lucida drawings of actual structures.

In mimeographed form, this book has been used for several years by the authors and by others in classes consisting of students in agriculture, the liberal arts, and the sciences.

McGRAW-HILL BOOK COMPANY, Inc.

330 West 42nd Street, New York

Aldwych House, London, W.C.2



Even Boiling Alkalies* do not affect this new WHATMAN Filter Paper

WHATMAN Filter Paper No. 41 H is a rapid filtering Ashless Filter Paper that has been hardened until its wet strength is several times that of ordinary Filter Papers. The most careless laboratory boy with the most potent wash bottle stream will not puncture No. 41 H.

For Iron and Alumina, Silica when not too fine, Organic Precipitates, etc., No. 41 H is excellent.

Acids and alkalies in usual working concentrations do not affect it and circles can be removed from the funnel, washed and replaced without fear of tearing.

The ash weight is negligible, only .00005 gram in the 11 cm size, while prices are no higher than those of ordinary Ashless Filter Papers.

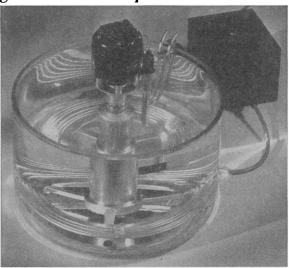
* In all usual concentrations met in Analytical Work.

Send for samples and test this remarkable paper today.

H. REEVE ANGEL & CO., INC. 7-11 SPRUCE ST., NEW YORK, N. Y.

HATMAN Brok FILTER PAPERS

Service characteristics during more than one year of widely spread application definitely established the success of the Sargent Constant Temperature Water Bath.



Underlying the added convenience and greater accuracy of reading resulting from complete visibility of immersed work are the significant essentials of correct engineering of control units which are directly responsible for the reliability of performance over long periods of time.

The effective concentration of heating and circulating facilities into one compact unit has not only resulted in larger unobstructed working area ratios, but has provided a much more effective circulating system as well as a more efficient application of heat. The rapid and complete circulation of this large volume of water is accomplished by a turbine with a highly efficient screw impeller and fast heat transfer is made possible by the application of heat at the point of most rapid circulation of water. As a result, no temperature differences perceptible to a Beckmann thermometer can be detected in any part of the bath.

Current flowing through the regulator contacts is reduced to 0.05 of a micro ampere by the Sargent Zero Current Relay Unit, permitting the use of the convenient type of regulator which operates in the atmosphere without progressive deterioration of the regulator contacts. Consequently, any selected temperature is maintained with an accuracy of plus minus 0.01° C indefinitely without need for readjustment.

For conditions requiring maintenance of only one temperature a fixed regulator permanently adjusted to any desired temperature may be supplied. This type of regulator is convenient and protected from tampering.

Complete with Pyrex container, central circulating and heating unit with motor, cooling coil, constant level device, Sargent Zero Current Relay Unit and cord and plug.

For 110V. 60 cycle or 220V. 60 cycle \$150.00 For 110V. 50 cycle or 110V. D. C. . . 155.00

SARGENT

E.H.SARGENT & CO. CHICAGO

LABORATORY SUPPLIES

155 E. SUPERIOR ST.

CHICAGO, ILL.