

DEDICATION EXERCISES AT THE BROOKLYN BOTANIC GARDEN

ON April 19-21 exercises were held in connection with the dedication of the completed laboratory building and plant houses of the Brooklyn Botanic Garden. The programs at the various sessions were as follows:

APRIL 19

Formal exercises for officials, Garden members and invited guests. Lecture Hall, Mr. Alfred T. White, chairman of the Botanic Garden Governing Committee, presiding.

Introductory Address, Mr. A. Augustus Healy, president of the Brooklyn Institute of Arts and Sciences.

Address for the City of New York, Hon. William A. Prendergast, comptroller.

The social, educational and scientific value of botanic gardens, Professor John Merle Coulter, University of Chicago.

Addresses for the borough of Brooklyn, Hon. Lewis H. Pounds, president of the borough; for the Department of Parks, Hon. Raymond V. Ingersoll, commissioner of Parks, Brooklyn; for the Brooklyn Botanic Garden, Dr. C. Stuart Gager, director of the Garden.

10 P.M.

Reception by the trustees and woman's auxiliary, inspection of building and view of exhibit on genetics, arranged in cooperation with the Cold Spring Harbor Station for Experimental Evolution of the Carnegie Institution of Washington.

FRIDAY, APRIL 20

Dr. R. A. Harper, Torrey professor of botany, Columbia University, presiding.

A vegetative reversion in *Portulacca*, A. F. Blakeslee and B. T. Avery, Station for Experimental Evolution, Carnegie Institution.

Intercourses between self-sterile plants, E. M. East, Bussey Institution of Harvard University.

Evolution by hybridization, E. C. Jeffrey, Harvard University.

Binary fission and surface tension in the development of the *Volvox* colony, R. A. Harper, Columbia University.

The nucleus as a center of oxidation, W. J. V. Osterhout, Harvard University.

Modern applications of botany, Melville T. Cook, Rutgers College.

Mycelium of certain species of *Gymnosporangium*, B. O. Dodge, Columbia University.

Pathological problems in the distribution of perishable plant products, C. L. Shear, Bureau of Plant Industry, U. S. Department of Agriculture.

Some botanical problems which paleobotany has helped to solve. (Read by title.) Arthur Hollick, Staten Island Association of Arts and Sciences.

The ancient oaks of America. (Read by title.) William Trelease, University of Illinois.

Further notes on the structural dimorphism of sexual and tetrasporic plants in the genus *Galaxa-*

ura, Marshall A. Howe, New York Botanical Garden.

A quantitative study of *Raunkiaer's* growth-forms as illustrated by the 400 commonest species of Long Island, N. Y. (Read by title.) Norman Taylor, Brooklyn Botanic Garden.

2 P.M.

Dr. N. L. Britton, director-in-chief, New York Botanical Garden, presiding.

The relation of crown-gall to other overgrowths in plants, Erwin F. Smith, Bureau of Plant Industry, U. S. Department of Agriculture.

The Uredinales of Oregon, Herbert S. Jackson, Purdue University.

The importation of phytopathogenes, W. H. Rankin, Cornell University.

Physiological races of parasitic fungi, George M. Reed, University of Missouri.

The genus *Endogone*, George F. Atkinson, Cornell University.

A method of obtaining abundant sporulation in cultures of *Alternaria solani*, L. O. Kunkel, Bureau of Plant Industry, U. S. Department of Agriculture.

The vegetation of our new West Indian Islands, N. L. Britton, New York Botanical Garden.

Weather conditions and plant development, G. P. Burns, University of Vermont.

American heaths and pine heaths, John W. Harshberger, University of Pennsylvania.

Botanical training in the Agricultural College. (Read by title.) A. Vincent Osmun, Massachusetts Agricultural College.

A duplicated leaf-lobe factor in *Bursa*, George H. Shull, Princeton University.

Isolation as a factor in specific change, Edmund W. Sinnott, Connecticut Agricultural College.

Further studies on the interrelationship of morphological and physiological characters in seedlings of *Phaseolus*, J. Arthur Harris, Station for Experimental Evolution, Carnegie Institution.

Inheritance studies in *Castor* beans. (Read by title.) O. E. White, Brooklyn Botanic Garden.

POPULAR SCIENTIFIC PROGRAM

Mr. Alfred T. White, chairman of the Botanic Garden Governing Committee, presiding.

Photographing wild flowers for color illustrations, Dr. Homer D. House, State Botanist of New York.

Vacant lot gardening and children's gardens in Brooklyn, Miss Ellen Edly Shaw, curator of Elementary Instruction, Brooklyn Botanic Garden.

Problems of conservation in New York state, Hon. George D. Pratt, commissioner of Conservation of New York State.

APRIL 21

Dr. H. M. Richards, Columbia University, presiding.

The synchronism of plant structures, John M. Macfarlane, University of Pennsylvania.

Contact stimulation, G. E. Stone, Massachusetts Agricultural College.

The respiratory ratio of cacti, H. M. Richards, Columbia University.

The absorption of calcium salts by squash seed-

lings. (Read by title.) R. H. True, Bureau of Plant Industry, U. S. Department of Agriculture.

Duplication and cohesion in the main axis in chicory, A. B. Stout, New York Botanical Garden.

The sequence of life in peat bogs. (Read by title.) W. W. Rowlee, Cornell University.

Some observations on the sexuality of *Spirogyra*, H. H. York, Brown University.

The problem of the imported plant disease as illustrated by the White Pine Blister Rust. (Read by title.) Haven Metcalf, Bureau of Plant Industry, U. S. Department of Agriculture.

Outline of the history of the science of phytopathology, H. H. Whetzel, Cornell University.

Tubers within tubers of *Solanum tuberosum*, F. C. Stewart, New York Agricultural Experiment Station.

The rosy-spored Agarics of North America, W. A. Murrill, New York Botanical Garden.

Some botanical-pharmacognostical investigations, Henry Kraemer, Philadelphia College of Pharmacy.

The cytological structure of *Botryorhiza Hippocrateae*. (Read by title.) E. W. Olive, Brooklyn Botanic Garden.

APRIL 21

Conference to consider Vacant Lot Gardening and how the Botanic Garden may become Most Helpful to Teachers

Dr. C. A. King, Brooklyn Institute of Arts and Sciences and Erasmus Hall High School, presiding. Welcome, Dr. C. Stuart Gager, director of the Brooklyn Botanic Garden.

The possibilities of vacant lot gardening in Brooklyn, Mr. H. F. Button, professor in the New York State School of Agriculture on Long Island.

How may the Botanic Garden cooperate with local schools? Dr. Ralph C. Benedict, Bushwick High School; Miss Beatrice King, Public School No. 25; Miss Johanna Becker, Public School No. 36; Dr. Frederic Luqueer, Public School No. 152; Miss Margaret Kane, Public School No. 98; Mr. James O'Donnell, Public School No. 43; Mrs. Alice Ritter, Public School No. 89.

Opportunities offered by the Botanic Garden, Dr. E. W. Olive, curator of Public Instruction.

What the Botanic Garden is doing for Brooklyn boys and girls. (With brief statements by ten boys and girls.) Miss Ellen Eddy Shaw, curator of elementary instruction; Miss Jean Cross, assistant curator of elementary instruction.

Tea was served at 4:30 P.M. by the Woman's Auxiliary of the Botanic Garden.

THE STANFORD MEETING OF THE PACIFIC DIVISION OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

THE second annual meeting of the Pacific Division of the American Association for the Advancement of Science was held at Leland Stanford Junior University, California, between the dates, April 5 to 7, 1917. The headquarters of the Division were maintained in the rotunda of David

Starr Jordan Hall, and the sessions of the several societies participating in the meeting were held in lecture rooms of the departments to which the societies were closely related.

Three general sessions of the division were held, the first of which was a symposium on the afternoon of Thursday, April 5, Dr. J. C. Branner, president of the Pacific Division, presiding. This symposium had been prepared by Dr. D. T. MacDougal, director of the Desert Laboratory of the Carnegie Institution of Washington, Tucson, upon the subject, "Coordination and Cooperation in Research and in Applications of Science." Four addresses were presented as follows:

"Science, and an Organized Civilization," by Wm. E. Ritter, director, Scripps Institution for Biological Research, La Jolla, California.

"The National Research Council as an Agency of Cooperation," by Arthur A. Noyes, director of Chemical Research, Throop College of Technology, Pasadena, California.

"Plans for Cooperation in Research among the Scientific Societies of the Pacific Coast," by J. C. Merriam, professor of paleontology, University of California, Berkeley.

"The Applications of Science," by William F. Durand, professor of mechanical engineering, Stanford University, California.

On the evening of Thursday, April 5, a general session was held in the assembly hall of the Outer Quadrangle, Dr. J. C. Branner, president of the division, presiding. At this session, President R. L. Wilbur welcomed the association on the part of the university, and Dr. James A. B. Scherer, president of Throop College of Technology, responded. In this response President Scherer extended the invitation of Throop College of Technology and other institutions of southern California to the Pacific Division of the American Association to hold its 1918 meeting in Pasadena. The nominating committee presented its report, nominating the following members to serve upon the Executive Committee for a term of three years each: Dr. W. W. Campbell, director of the Lick Observatory, Mount Hamilton; Dr. Wm. E. Ritter, director of the Scripps Institution for Biological Research, La Jolla, California, and Mr. C. E. Grunsky, president of the American Engineering Corporation, San Francisco. This report was accepted and the secretary was instructed to cast the ballot for these names. Following the transaction of this business, Dr. J. C. Branner, the retiring president of the Pacific Division of the American Association, presented his presidential address upon the subject, "Some of