

November,\* Second International Conference for the Protection of Plants, Rome.

November,\* Ninth general meeting of the International Agricultural Institute, Rome.

December 15-22, International Congress of Tropical Medicine, Cairo.

### FORESTRY ADVANCES IN THE UNITED STATES

THE official *Record* of the U. S. Department of Agriculture lists the more important advances in forest conservation which have been made in various states. Last year three states—Florida, South Carolina and Delaware—passed laws for the establishment of state forestry departments and the appointment of state foresters. Similar legislation was again proposed in Arkansas but failed. California created a department of natural resources under the general supervision of a director, with a division of forestry administered by the state forester and guided as to policies by a state board of forestry, the new department taking over all the powers and duties of the former state forester. Rhode Island made an important change in its forestry organization by putting it under the department of agriculture. North Carolina increased the membership of its state board of conservation and development. Louisiana provided for an additional member of its forestry board. Ohio passed legislation authorizing the board of control of the Ohio experiment station to acquire tracts suitable for research and demonstration in practical forestry. Maine provided for the establishment of town forests, and Wisconsin made similar provision for county forests. In Washington the State has been given authority to accept from counties tax lands suitable for State forests. Michigan provided for the retention of such lands by the state, and Minnesota set aside as state forests all state lands within the boundaries of the Minnesota National Forest. Pennsylvania appropriated \$450,000 toward the acquisition of about 7,200 acres of private land in order to preserve some of the original forests of the state, and for other forests and tracts subject to the contribution of not less than \$200,000 of private funds for the same purposes. Maryland authorized the formation of auxiliary state forests through agreement with private land-owners.

### DR. B. L. HARTWELL AND THE RHODE ISLAND AGRICULTURAL EXPERIMENT STATION

THE New England section of the American Society of Agronomy has passed the following resolutions concerning Dr. B. L. Hartwell:

\* The information in the possession of the Institute does not give the exact date.

WHEREAS, Dr. B. L. Hartwell, during his many years of service at the Rhode Island Agricultural Experiment Station, has made many notable contributions to agricultural science, winning for himself and the Rhode Island station a national and international reputation; and

WHEREAS, The success of the investigations at the Rhode Island station in Dr. Hartwell's special field is largely the result of carefully planned and fostered co-operation of the station agronomists, chemists and plant physiologists; and

WHEREAS, The Rhode Island station experiments and researches respecting soil acidity, availability of phosphates, toxicity of aluminum, effect of one crop on another, crop response to fertilizer elements, manure substitutes for vegetable gardens, etc., have yielded results of incalculable value to agronomical science and practice; and

WHEREAS, Dr. Hartwell has taken an active part in the proceedings of the New England section of the American Society of Agronomy, working always for the best interest of New England agriculture through the promotion of agronomical science; has been known for his integrity, staunchness and untiring zeal; has been one whose counsel has been often sought and always esteemed by his fellow agronomists; and

WHEREAS, The New England agronomists feel that on account of Dr. Hartwell's long contact and detailed familiarity with the Rhode Island field experiments, into which he has put the best part of his life, his dismissal will cause agronomic science and New England agriculture to suffer a great loss and thereby affect the welfare of the people of New England; and

WHEREAS, The New England agronomists view with alarm any changes that would jeopardize the work, and with disfavor the summary dismissal of a scientist of Dr. Hartwell's record, character and ability, without a careful consideration of all the elements involved in the case; therefore, be it

*Resolved*, That the New England Section of the American Society of Agronomy earnestly requests a thorough investigation of the whole affair by some unprejudiced agency of Rhode Island, that the facts ascertained be made public, and that the board of managers of the experiment station keep an open mind for a reconsideration of its action in the light of the facts. Be it further

*Resolved*, That a copy of these resolutions be sent to Providence papers, the board of managers of the Rhode Island State College and to all other organizations or persons interested.

By A. B. BEAUMONT,  
Chmn. New Eng. Sec. A. S. A.  
FORD S. PRINCE,  
Sec'y New Eng. Sec. A. S. A.

### SCIENTIFIC NOTES AND NEWS

DR. WILLIAM H. WRIGHT, astronomer of the Lick Observatory, has been awarded the Henry Draper medal of the National Academy of Sciences.

DR. W. NERNST, professor of physical chemistry in the University of Berlin, has been awarded the Franklin medal of the Franklin Institute of Philadelphia.

THE University of St. Andrews will confer the honorary degree of LL.D. upon Professor William Darrach, dean of the college of physicians and surgeons of Columbia University, and on Dr. E. P. Cathcart, Gardiner professor of physiological chemistry at the University of Glasgow.

THE Bavarian Academy of Sciences has elected to its mathematics and natural history section as corresponding members the following: Dr. F. G. Hopkins, professor of biochemistry in the University of Cambridge; Dr. R. Robinson, professor of organic chemistry in the University of Manchester; Dr. S. Murbeck, professor of botany in the University of Lund; Dr. A. Angeli, professor of organic chemistry in the University of Florence; Dr. L. Dolle, professor of geography and paleontology in the University of Brussels.

DR. A. W. HILL, director of the Royal Botanic Gardens, Kew, attended the annual meeting of the New Zealand Institute on January 26, when he was elected an honorary member. Sir John Russell, director of the Rothamsted Experimental Station, has also been elected an honorary member of the institute.

THE Nichols Prize of the Royal Society of Medicine has been awarded to Dr. Peter L. McKinlay and Dr. Remington Hobbs, the prize being equally divided between them. This prize, of £250, under the will of the late Dr. R. T. Nichols, is offered every three years for the most valuable contribution by a British subject towards the discovery of the causes and the prevention of death in childbirth from septicemia.

DR. HEINRICH KAYSER, who was for twenty-five years professor of physics in the University of Bonn, recently celebrated his seventy-fifth birthday.

A PORTRAIT of Dr. William H. Park, director of the laboratories of the New York City Department of Health, professor of bacteriology and hygiene in New York University and Bellevue Hospital Medical College and vice-president of the New York Academy of Medicine, was presented to the academy at a stated meeting on April 19.

AT Tulane University, Dr. Erasmus Darwin Fenner has been appointed professor emeritus of orthopedics and surgical diseases of children and Dr. Rudolph Matas, professor emeritus of general and clinical surgery.

DR. FRANK C. WHITMORE, chairman of the division of chemistry and chemical technology of the National

Research Council and head of the department of chemistry at Northwestern University, has been elected a director of the American Chemical Society, to fill the vacancy created by the election to the presidency of S. W. Parr, of the University of Illinois.

DR. JOHN B. WHITEHEAD, professor of electrical engineering and dean of the school of engineering of the Johns Hopkins University, has been engaged as a consultant for the engineering and research staffs of the General Cable Corporation. He is to act in an advisory capacity on wire and cable insulations.

DR. HARRY EVERETT BARNARD, of Illinois, president of the American Institute of Baking in Chicago, has joined the scientific organization of the Royal Baking Powder Company as technical consultant, with headquarters in Indianapolis.

DR. A. S. PATTEN, for the past twenty-two years chemist at the Michigan Agricultural Station, has resigned to take a position with the Huron Milling Company, Michigan.

C. E. DOBBIN has been transferred from the fuel section of the geologic branch to the conservation branch of the U. S. Geological Survey, of which he is to be field representative of the mineral classification division, with an office in Denver, Colorado.

DR. JOHN COLLINSON, Jr., has been appointed head of the bureau of vital statistics of the Maryland Department of Health on a full-time basis to succeed Dr. Frederic V. Beitler, resigned.

DR. OTTO H. SCHWARZ has returned after about seventeen months abroad to become obstetrician-in-chief at the new maternity hospital and to head the department of obstetrics at the Washington University School of Medicine, St. Louis.

COMMANDER RICHARD E. BYRD has made public the membership of his forthcoming Antarctic expedition, which includes the following scientific men: Dr. L. M. Gould, of the University of Michigan, will be geologist and geographer; William C. Haynes, of the U. S. Weather Bureau, meteorologist, and Dr. Francis D. Coman, of the Johns Hopkins Hospital, physician and surgeon.

PAUL C. STANDLEY returned to Washington on April 2, after spending four months in botanical field work in Honduras. Most of the time was devoted to a survey of the Lacatilla Valley, near Tela, but three weeks were passed in exploration of the pine forests of the interior of the Republic.

DR. GRAHAM LUSK, professor of physiology at the Cornell University Medical College, gave a series of three lectures under the Herter foundation of the University and Bellevue Hospital Medical College, New

York University, on April 23, 25 and 27. The subjects were, respectively, "Normal Metabolism," "Diabetes" and "Mechanical Work."

DR. ROBERT A. MILLIKAN, of the California Institute of Technology, will be the principal speaker at the dedication exercises on April 28 of the new science hall at Berea College and Allied Schools.

DR. GEORGE E. COGHILL, member of the Wistar Institute, will lecture on the subject of "Anatomy and the Problem of Behavior" at University College, London, on May 7, 8 and 10.

DR. J. FRANK, professor of experimental physics at the University of Göttingen, will lecture before the New York University Chapter of the Society of the Sigma Xi, May 2, on "Connections between Spectroscopy and Chemical Reactions."

DR. FRANK SCHLESINGER, director of the Yale Observatory, lectured before the Amateur Astronomers Association at the American Museum of Natural History on April 19.

DR. S. BURT WOLBACH, Shattuck professor of pathologic anatomy at the Harvard Medical School, delivered the annual lecture to the Philadelphia Pathological Society on April 19 on "The Pathology of Avitaminoses."

DR. CHARLES H. MAYO, of the Mayo Clinic, delivered the Balfour lecture on Lister day, April 5, at the University of Toronto on "Focal Infection in Chronic and Recurring Diseases."

DR. ALEŠ HRDLIČKA, of the Smithsonian Institution, gave three public lectures at the University of Wisconsin on March 26, 27 and 28 on "The Origin of the Living Races of Man, their Spread over the World and their Present Classification," "The Racial Composition of the Principal Now-existing Nations of the World" and "The American People."

DR. F. E. LLOYD, MacDonald professor of botany in McGill University, gave two lectures at Purdue University, on April 16. In the afternoon he addressed the local biological society and the Purdue section of the plant physiologists on "Maturation and Conjugation in Spirogyra." In the evening he gave a popular lecture on "The Structure, Movements and Feeding Habits of Vampyrella Lateritia" at an open meeting under the auspices of the department of biology and the Purdue Chapter of Sigma Xi.

DR. JULIUS BAUER, professor of medicine at the University of Vienna, gave a Mayo Foundation lecture on April 2, on "Individual Constitution in Clinical Pathology," at the Mayo Clinic. Dr. Bauer came from Vienna to deliver the oration at the recent meet-

ing of the American College of Physicians in New Orleans.

PROFESSOR BRUNO BLOCH, director of the dermatological clinic of the University of Zurich at Strasbourg, will lecture at the Harvard Medical School on April 16, on "Formation of Pigment in the Skin."

AMONG the busts to be unveiled in the Hall of Fame at New York University on May 10 is that of Louis Agassiz. The bust is the work of Anna Vaughn Hyatt, the daughter of Alpheus Hyatt, who was a student of Agassiz.

A. LEROY KEYES, bacteriologist at the Rocky Mountain Spotted Fever Laboratory, of the U. S. Public Health Service, at Hamilton, Montana, recently died of the disease, which he had contracted in the laboratory.

DR. CHARLES S. BOYER, of Philadelphia, known for his studies of Diatomaceae, recently died at the age of seventy-two years.

PROFESSOR LAUNCELOT HARRISON, Challis professor of zoology in the University of Sydney and president of the Linnean Society of New South Wales, died on February 20.

M. FÉLIX HENNEGUY, professor of comparative embryology at the Collège de France, Paris, since 1900, and president for five years of the Société de Biologie, has died, aged seventy-seven years.

PROFESSOR ANTONIO ABETTI, formerly director of the Institute of Astrophysics at Florence Arcetri, died on February 20 at the age of eighty-two years.

PROFESSOR RITZEMA BOS, known for his work in connection with the diseases of plants, has died at Wageningen, Holland, at the age of seventy-eight years.

THE Harvey Society of New York announces a celebration to commemorate the three hundredth anniversary of the publication of "Exercitationes de Motu Cordis et Sanguinis," by William Harvey, for the evening of Friday, May 11. The Harvey Society plans to celebrate the anniversary of this event in connection with the final lecture of the current year. The celebration is to consist of a dinner, in accordance with the ancient tradition established by Harvey at the Royal College of Physicians of London. After the dinner there will be an address, appropriate to the occasion, by Dr. Alfred E. Cohn, of the Rockefeller Institute. At the same time there will be on exhibition in the library of the Academy of Medicine a collection of Harveiana, arranged by Archibald Malloch, librarian of the academy.

THE Lehigh chapter of Sigma Xi was installed at Lehigh University on March 1, by Dr. G. B. Pegram, of Columbia University, the national treasurer of the society. There were thirty-nine charter members. The installation ceremony was followed by a banquet in the evening. The chapter elected the following officers: Dr. C. R. Richards, president of Lehigh University, *president*; Dr. B. L. Miller, *vice-president*; Dr. C. C. Bidwell, *treasurer*, and Dr. L. L. Smail, *secretary*.

THE annual meeting of the New Hampshire Academy of Science will take place at the Ashworth Hotel at Hampton Beach from June 1 to 3. Plans for the meeting include a general meeting addressed by an outside speaker, sessions for the reading of scientific papers and field trips.

THE fourth annual science dinner of the New York Association of Biology Teachers will be held on April 28 at the Hotel St. George, Brooklyn, N. Y. The program includes addresses by Dr. W. D. Bancroft, chairman of the department of chemistry at Cornell University; Dr. C. E. Baer, New York state supervisor of science, and Dr. F. C. Brown, director of the Museum of the Peaceful Arts.

GIFTS to the American Chemical Society aggregating \$360,000, for "cooperative service in recording and indexing through the society's publications the chemical literature of the world," were announced at the society's closing session in St. Louis. The Chemical Foundation, Inc., of New York, of which Francis P. Garvan is president, gave \$250,000. The remaining \$110,000 came from the industries, among which a leading donor was the Allied Chemical and Dye Corporation, of which Dr. William H. Nichols, of New York, a charter member and a past president of the society, is chairman of the board.

THE Northeastern Section of the American Chemical Society has received a check for \$1,000 from Mrs. Robert W. Neff as a contribution to the permanent trust fund of the section. Mr. Neff, who was a manufacturing chemist in Boston for thirty years, died a few weeks ago. He was a member of this section and was also treasurer of the board of trustees of this fund. He was deeply interested in the plans to provide a permanent source of income for the section and made provision in his will for this addition to the fund of which the income only can be spent for constructive work in chemistry by the Northeastern Section.

THE Academy of Natural Sciences of Philadelphia has received by bequest of the late Frank R. Mason, of Philadelphia, the important collection of Coleoptera accumulated by him over a period of nearly thirty

years. The collection is especially rich in exotic species, and includes among other series the Cerambycidae of the famous Vanderpole collection and the Angell collection of Carabidae. The Mason collection contains representatives of 16,863 species and embraces about 76,650 specimens, contained in over 1,100 boxes housed in nine large steel cabinets. The collection of the family Carabidae alone contains about 10,200 specimens representing 2,338 species, while the series of Cerambycidae contains individuals of 4,660 species. The technique of the specimens in the collection is said to be exceptionally fine. By the terms of the bequest the collection is to be kept intact and to be known as the "Frank R. Mason Memorial Collection." It has been considered by competent students to be the best collection of the beetles of the world in America.

THE New York Botanical Garden has recently received from the American Museum of Natural History a collection of more than five hundred herbarium specimens from Mount Roraima, collected in 1927 by Mr. G. H. H. Tate, of the museum staff. Roraima stands at the boundary corner between Brazil, Venezuela and British Guiana, and rises to a height of more than 8,000 feet. Its flora is still imperfectly known, chiefly because of the difficulty involved in reaching it, but has long been noted for a large proportion of endemic species. Mr. Tate was able to spend two weeks on the actual summit of Roraima and collected specimens of every observed species, so that the gift is an important addition to the garden's South American material.

CONTRIBUTIONS toward the \$1,000,000 sought by the Charles Sprague Sargent memorial fund for the Arnold Arboretum now total \$906,551, according to an announcement made by Henry James, chairman of the New York committee for the fund. This amount includes a \$50,000 gift which will be payable by Edward S. Harkness when the balance of the fund has been subscribed.

THE San Diego Society of Natural History has announced that in response to its appeal for a \$250,000 building fund, pledges to the amount of \$125,000 have been received. This building fund will make possible the erection of a new fireproof museum structure.

At a recent meeting of the board of directors of the Desert Sanatorium of Southern Arizona, Tucson, \$250,000 was voted to establish an institute of research to study the nature of solar radiations and their effects on living matter. The director will be Dr. Bernard L. Wyatt; the medical director, Dr. Roland A. Davison, and the research consultant, Dr. Daniel T. MacDougal.

THE *British Medical Journal* states that a national fund is being created in Sweden for presentation to King Gustaf V as a gift on his seventieth birthday in June this year. The King intends to expend the fund in promoting cancer research. A special institute may be established in Stockholm.

THE original thesis presented by David Starr Jordan for his master's degree at Cornell University has been given by Dr. Jordan to the university library. Dr. Jordan, a graduate of the class of 1872, prepared for his master's degree a manuscript on "The Wild Flora of Wyoming County, New York."

AN advisory commission of engineers has been organized to make a survey in Vermont with a view to preventing floods. J. W. Votey, dean of the University of Vermont College of Engineering, was named chairman of the commission and Professor H. K. Barrows, of Boston, consulting engineer. The commission plans to establish a number of stations along various streams to determine the flow of water at various times and under different conditions. From the data thus obtained, the locations of reservoirs to control the water flow will be determined.

CONTINUING its program of scientific research in cooperation with the United States Bureau of Mines and two advisory boards representing the mining and metallurgical industries, the Carnegie Institute of Technology in Pittsburgh will award ten fellowships in mining and metallurgical research during the coming year. Subjects to be studied by the fellows appointed for 1928-29 will be selected in the fields of origin and constitution of coal, coal mining, utilization of coal, mine safety and the physical chemistry of steel making.

ACCORDING to *Industrial and Engineering Chemistry* the Imperial Chemical Industries, Ltd., the British trust of which Sir Alfred Mond is chairman, has launched a move in England to promote chemical industrial research and stimulate interest in the chemical industry in general. To this end a research council composed of leading scientific men has been established. It is pointed out that coordinated industrial research in Great Britain has suffered in the past through lack of sufficient close associations with the academic and scientific world. The main functions of the council will be advisory, and it will act as a clearing house for ideas. The council will also provide close liaison between the industry and the universities, and will promote research along both industrial and purely academic lines. Sir Alfred Mond is chairman of the council. In further extension of this move the British chemical trust has also inaugurated a scheme to absorb research chemists and chemical engineer graduates from British educational in-

stitutions. The plan provides for selecting boys who indicate an aptitude along chemical lines and insuring them positions with initial salaries of \$2,000 per year upon successful completion of their educational training in universities.

## UNIVERSITY AND EDUCATIONAL NOTES

THE will of the late Chauncey M. Depew, of New York, includes an unrestricted bequest of \$1,000,000 to Yale University.

ST. STEPHEN'S COLLEGE at Annandale-on-Hudson has been absorbed by Columbia University, according to an announcement by the officials of both institutions. Under the consolidation St. Stephen's becomes a unit of Columbia University on a parity with Columbia and Barnard Colleges.

THE *Journal* of the American Medical Association states that at a luncheon given by the University of Southern California in honor of Dr. Ray Lyman Wilbur, of Stanford University, and a group of sixty Los Angeles physicians on March 26, it was announced that the University of Southern California College of Medicine is to be reopened and that the trustees have agreed to set aside \$500,000 as an endowment.

GROUND was broken with formal ceremonies at Lafayette College on April 26 for the John Markle mining building.

DR. CHARLES P. OLIVIER, of the University of Virginia, has been appointed professor of astronomy at the University of Pennsylvania and director of the Flower Observatory at Highland Park.

DR. RAOUL BLANCHARD, professor of geography at the University of Grenoble, has been appointed professor of geography at Harvard University.

DR. S. TIMOSHENKO, of the research department of the Westinghouse Company, has been appointed professor of applied mathematics at the University of Michigan. He is succeeded at the Westinghouse Company by Dr. A. Náday, of Göttingen.

PROFESSOR F. C. KOCH has been made chairman of the department of physiological chemistry and pharmacology at the University of Chicago. Professor A. Baird Hastings has been transferred from the department of physical chemistry to be professor of biochemistry in the department of medicine.

AT Clark University, the following promotions from associate professorships have been made: Dr. W. Elmer Ekblaw, professor of agricultural geography; Dr. Clarence F. Jones, professor of economic geog-