

Botanical Society of America to the Third Pan-Pacific Science Congress held at Tokyo, Japan, whose scientific formal program extended from October 30 to November 11, 1926, but whose more extended excursions began October 18 and continued until November 19. During the whole of this considerable period, the delegates participating (together with their accompanying families) were regarded as the guests of the local committees and all living and traveling expenses provided for out of funds at their disposal. Your delegate joins the other foreign delegates in feeling that no form of words is adequate for the expression of their appreciation of the wonderful hospitality of the Japanese Government and its official representatives and of the marvelous executive ability and extreme courtesy of its citizens of both high and low degree. The management of the complicated detail of the scientific, social and travel program is beyond ordinary expression of sincere and genuine praise.

The particular general achievement of the congress was the effecting of a permanent organization to perpetuate its work and continue its ideals. The "*Pacific Science Association*" came into being at the closing general session, the units being the National Research Councils, or other outstanding scientific body, of each Pacific unit of territory. A constitution and by-laws were adopted and Java was selected for the next meeting with 1929 as the year for reassembling.

The principal measures of botanical interest instituted or sanctioned by the proceedings of the congress are:

- (1) The representation of biology on the Committee for Oceanographic Research;
- (2) The inclusion of endemism and migration with reference to the insular floras (and faunas) of the Pacific Ocean;
- (3) Geological and paleontological evidence as to the shores of the Pacific in divisions of Tertiary time (this having relation to existence or non-existence of land bridges);
- (4) The botanical point of view as preeminent in the investigation of the coral reefs of the Pacific Ocean;
- (5) The resolution calling for the setting aside of localities of particular botanical interest, and
- (6) The resolution urging the Chilean Government to take measures looking towards the protection of the peculiar floral features of the Juan Fernandez Islands.

Your delegate attended a luncheon given by the Botanical Society of Tokyo to visiting botanists, delivered three papers, *viz.*—"Endemism and Migration with Particular Reference to the Floras of the Pacific Islands," "Coral Reef Problems in the Pacific and Indian Oceans" and "A Botanical Point of View of Coral Reef Theories, with Especial Relation to the Coral Reefs of the Pacific Ocean." He also proposed a resolution to institute a committee to be composed of biologists, oceanographers and geologists to outline the problems connected with the origin and growth of the coral reefs of the Pacific Ocean

and to suggest methods of investigation for their solution. This resolution was adopted by the congress.

Respectfully submitted,

(Signed) W. A. SETCHELL,
Delegate

The following resolution was adopted by the society at the recent Nashville meeting.

The Botanical Society of America wishes to express, through Professor Sakurai, its deep appreciation of the unusually successful conduct of the Third Pan-Pacific Science Congress convened at Tokyo in October and November, 1926; and to thank the Imperial Japanese Government for making possible a meeting of such significance for scientific and international cooperation. It wishes also particularly to thank the Botanical Society of Tokyo, the Botanical Institutes of the Imperial University of Tokyo, and the other scientific organizations of Japan for the assistance generously extended to the American delegates and for their delightful hospitality throughout the extended period before and after the meetings of the congress, during which they traveled and studied in Japan.

SCIENTIFIC NOTES AND NEWS

DR. HENDRIK LORENZ, professor of mathematical physics at Leyden, died on February 25, at the age of twenty-five years.

THE Faraday medal "for notable scientific or industrial achievement in electrical engineering or for conspicuous service rendered to the advancement of electrical science" has been awarded by the Institution of Electrical Engineers, London, to J. A. Fleming, F.R.S., formerly professor of electrical engineering in the University of London.

THE council of the Geological Society has made the following awards: Wollaston Medal to Dr. D. H. Scott, lately honorary keeper of the Jodrell laboratory, Royal Botanic Gardens, Kew, in recognition of the value of his researches in fossil botany; Murchison Medal to Dr. J. J. Sederholm, director of the Geological Commission of Finland, in recognition of his researches in petrology, especially of the granites and gneisses of the pre-Cambrian complex of Fennoscandia; a Lyell medal to Professor S. H. Reynolds, C. Wills, professor of geology in the University of Bristol, in recognition of the value of his researches in the stratigraphy of the Paleozoic rocks, and in vertebrate paleontology; a second Lyell medal to Dr. W. D. Lang, keeper of the department of geology in the British Museum, for his researches in stratigraphy and paleontology, especially with reference to the Bryozoa; the Wollaston donation fund to Mr. James Wright, for his researches on the Crinoidea of the

Carboniferous Limestone of Scotland; the Murchison geological fund to Dr. George Slater, in recognition of the value of his researches in glaciology; and the Lyell geological fund to Mr. Ben Lightfoot, for his researches on the economic geology of Southern Rhodesia.

THE list of British New Year honors includes, as reported in *Nature*, the names of the following men of science and others associated with scientific work. *Baronet*: Major-General Sir Richard Havelock Charles, sergeant surgeon to the king, a past president of the Royal Society of Tropical Medicine and Hygiene. *K.C.V.O.*: Sir Frank Baines, until lately Director of Works, H. M. Office of Works. *Knights*: Professor Jahangir Cooverjee Coyajee, professor of political economy and philosophy in the Presidency College at Calcutta; F. G. Hallett, secretary of the joint examining board, Royal College of Physicians of London and Royal College of Surgeons of England; Brigadier-General H. B. Hartley, fellow and tutor of Balliol College, Oxford, and member of the chemical warfare committee; Dr. E. H. Pascoe, director of the Geological Survey of India; Principal C. Grant Robertson, vice-chancellor and principal of the University of Birmingham; Dr. T. E. Stanton, superintendent of the engineering department, National Physical Laboratory; A. E. Aspinall, secretary of the Imperial College of Tropical Agriculture, Trinidad. *C.M.G.*: Major R. G. Archibald, director of the Wellcome Research Laboratories, Khartum; Mr. O. T. Faulkner, director of agriculture, Nigeria.

THE King of Spain has conferred the grand cross of the order of civil merit on Dr. Aldo Castellani, director of tropical medicine at the Ross Institute and Hospital, London, now lecturing at Tulane University, in recognition of his investigations into tropical diseases. Dr. Castellani recently visited Madrid at the invitation of the Spanish government to lecture on the subject of malaria. The King of England has conferred the rank of honorary knight commander of the Order of St. Michael and St. George upon Dr. Castellani.

HERBERT HOOVER, secretary of commerce, has been awarded the gold medal of the American Institute of Mining and Metallurgical Engineers for "achievement in mining."

DR. ALEXANDER WETMORE, assistant secretary of the Smithsonian Institution, has been elected a corresponding member of the Zoological Society of London.

THE Woman's Medical College of Pennsylvania announced in connection with the recent celebration of the ninety-first birthday of Dr. William W. Keen that a chair of surgery will be named in his honor in the

new college to be built at the Falls of the Schuylkill. The sum of \$100,000 will be raised to endow the chair. Dr. Keen was for several years professor of surgery at the Woman's Medical College.

ON November 21, 1927, at the psychology laboratory of Stanford University, a dinner was held in commemoration of Dr. Frank Angell's seventieth birthday and of the thirty-fifth year since the founding of the Stanford Laboratory. Dr. Angell took this occasion to recount his Leipzig experiences with the late Professor E. B. Titchener and to describe incidents connected with the establishing of the psychology departments both at Cornell and at Stanford. A portrait of Dr. Angell was unveiled and presented to the psychology laboratory at this time. The chairman of the occasion was Dr. Catharine Cox Miles.

PROFESSOR ARTHUR H. COMPTON, recent Nobel prize winner, was guest of honor at a faculty dinner at the University of Chicago on January 12.

ALEXANDER SILVERMAN, head of the department of chemistry at the University of Pittsburgh, was tendered a dinner by the students and faculty of Bryn Mawr College on January 12, following which he delivered an illustrated lecture on "Glass: One of Man's Blessings."

THE following officers of the Botanical Society of America were elected at the Nashville meeting: *President*, A. H. R. Buller, of the University of Manitoba; *Vice-president*, I. W. Bailey, of Harvard University. Corresponding members of the society were elected as follows: Abbé Giacomo Bresadola, Professor Seichiro Ikeno, Professor C. H. Ostenfeld, Professor Otto Rosenberg and Professor Richard von Wettstein.

AT the annual meeting of the Anthropological Society of Washington on January 17, the following officers were elected to serve for the current year of 1928: *President*, Dr. Charles L. G. Anderson; *Vice-president*, Frank H. Roberts, Jr.; *Secretary*, Dr. John M. Cooper; *Treasurer*, Henry B. Collins, Jr.

AT the annual meeting of the American Association for the Study of Allergy in Washington, D. C., Dr. Harry S. Bernton, Washington, D. C., was elected *president*; Dr. Richard A. Kern, Philadelphia, *vice-president*, and Dr. Albert H. Rowe, Oakland, Calif., *secretary-treasurer*. The next meeting of the association will be at Minneapolis on June 11.

DAVID F. JONES, Watertown, S. D., has been elected president of the American Pharmaceutical Association and will be installed at the next annual meeting.

PROFESSOR D. D. JACKSON, head of the department of chemical engineering at Columbia University, has accepted the chairmanship of the coordinating com-

mittee, which is in charge of the coming visit of English chemists and chemical engineers, members and guests of the Society of Chemical Industry.

PROFESSOR WILDER D. BANCROFT, of the department of chemistry at Cornell University, has been appointed a member of the advisory committee of the cancer research fund of the University of Pennsylvania.

C. A. BRAUTLECHT, head of the department of chemistry and chemical engineering at the University of Maine, has been elected chairman of the Northeastern division of the American Pulp and Paper Mill Superintendents Association.

WILLIAM PROCTER, research associate of the Academy of Natural Sciences of Philadelphia, has been elected to serve on the board of managers of the Wistar Institute to fill the vacancy caused by the death of Mr. George Vaux, Jr.

THE Smithsonian Institution has awarded the Walter Rathbone Bacon research fellowship for the years 1928-1930 to Dr. Paul Bartsch, curator of mollusks in the U. S. National Museum. Dr. Bartsch will make use of the award to collect material for the completion of a monograph he has long had under way on the land shells of the West Indies.

At the American Museum of Natural History Clifford H. Pope has been promoted from assistant to assistant curator of herpetology; Dr. Chester A. Reeds, curator of invertebrate paleontology, has had his title changed to curator of geology and invertebrate paleontology, and John Treadwell Nichols, assistant curator of recent fishes, has been made curator of recent fishes.

DR. DAVID FAIRCHILD, senior agricultural explorer in charge of the office of foreign-plant introduction, U. S. Bureau of Plant Industry, relinquished charge of that office on January 5, and Knowles A. Ryerson assumed the direction of the office. Dr. Fairchild will continue as senior agricultural explorer and will act as adviser and consulting specialist in matters pertaining to research problems in foreign-plant introduction.

PHILIP G. COLIN has resigned from the Rockefeller Institute for Medical Research to take a position with the Tidewater Oil Company, Bayonne, N. J.

LOUIS E. DAWSON has resigned his position in the carbohydrate laboratory, U. S. Bureau of Chemistry and Soils, to take a position in the research department of H. O. Wilbur & Sons, manufacturers of cocoa and chocolates, Philadelphia, Pa.

DR. N. L. BRITTON, director of the New York Botanical Garden, recently went to Porto Rico to

continue the botanical and horticultural studies of West Indian plants.

DR. J. W. GIDLEY, of the division of vertebrate paleontology in the U. S. National Museum, will leave shortly for Melbourne, Florida, where he expects to spend about two months in securing data on Pleistocene vertebrates.

ASHER HOBSON, permanent United States delegate to the International Institute of Agriculture at Rome, sailed for Europe on January 4. He will be located at Geneva, Switzerland, where he will gather research material in the development of a study which he has under way dealing with the institute.

DR. F. F. NORD, of the Physiological Institute, Berlin, who worked during 1926-27 in the division of agricultural biochemistry at the University of Minnesota, addressed on his way home the Pan-Pacific Research Institute at Honolulu and delivered lectures at the Imperial University of Kyoto, the Indian Chemical Society at Calcutta and at the Universities of Patna, Benares and Allahabad.

THE next series of Lane medical lectures will be given in October, 1928, by Professor F. d'Herelle, directeur du service bacteriologique du Conseil Sanitaire, Maritime et Quarantenaire at Alexandria, Egypt. The program has not been decided upon, but the lectures will probably cover filterable viruses and the bacteriophage. Dr. Walter Straub, professor of pharmacology at the University of Munich, has consented to give the Lane medical lectures in 1929. The course will probably be given in April.

PROFESSOR H. KRAMERS, of the University of Utrecht, will lecture at the University of Michigan during the coming summer session (June 15 to August 30). He will lecture twice a week on "Wave Mechanics" and twice a week on "Survey of Recent Work in the Quantum Theory." Courses will also be given by Drs. Uhlenbeck and Goudsmit, recently of the University of Leyden, supplementing those of Professor Kramers.

DR. H. H. GRAN, professor of botany in the University of Oslo, Oslo, Norway, will offer a course in marine diatoms at the Puget Sound Biological Station, Friday Harbor, Washington, during the session beginning on June 18.

DR. WADE HAMPTON FROST, professor of epidemiology in the School of Hygiene and Public Health at the Johns Hopkins University, gave the Cutter lectures on preventive medicine at the Harvard Medical School on February 2 and 3. The subjects of the lectures were "Infection, Immunity and Disease in the

Epidemiology of Diphtheria" and "Some Conceptions of Epidemics in General."

DR. OSCAR RIDDLE, of the Carnegie Station for Experimental Evolution, Cold Spring Harbor, New York, delivered a series of six lectures during the month of January at the School of Tropical Medicine of the University of Porto Rico, San Juan, on "The Internal Secretions in Evolution and Reproduction" and "Control and Transformation of Sex in Animals."

DR. HERBERT E. IVES, of the Bell Telephone Laboratories, will address the Franklin Institute on February 15 on "Television."

DR. EDWIN HUBBLE, astronomer in the Mount Wilson Observatory, will give a lecture on February 20 in San Francisco under the auspices of the Astronomical Society of the Pacific. Dr. Hubble will speak on "The Exploration of Space."

DR. FRANCIS G. BENEDICT, director of the Nutrition Laboratory of the Carnegie Institution of Washington, gave an address at Mount Holyoke College, South Hadley, Massachusetts, on "The Heat Production of Humans and Animals and Factors Affecting it," on January 21.

DR. COLIN G. FINK, of Columbia University, gave an illustrated address on "Recent Advances in Electrochemistry" at the meeting of the American Institute of Electrical Engineers held at Waterbury, on January 24. On February 3 Dr. Fink lectured before the McGill chapter of Sigma Xi and on February 15 he will lecture to the chemical students of Yale University, on the subject "Corrosion, its Cause and Prevention."

DR. W. F. G. SWANN, director of the Bartol Research Foundation, Philadelphia, read a paper on "Theories of the Atom," before the American Philosophical Society on February 3.

A TABLET in memory of Sir William Osler was unveiled by the Hamilton Medical Society, on December 28, 1927, near his former home in Dundas, Ontario.

DR. ERNEST C. SCHROEDER died on January 24, at Bethesda, Md., where he was superintendent of the Experiment Station of the Bureau of Animal Industry, United States Department of Agriculture. During his forty years of public service Dr. Schroeder made important contributions to the knowledge of animal diseases.

DR. OWEN F. BURGER, plant pathologist of the Florida Agricultural Experiment Station, died on January 26, from injuries received in an automobile collision. Dr. Burger was forty-three years of age.

EDWARD MALLINCKRODT, president of the Mallinckrodt Chemical Works, died on February 3, aged eighty-three years. Mr. Mallinckrodt has given more than \$1,000,000 to scientific education and to hospitals. The largest single item was \$500,000 to Harvard for a building to house the department of chemistry.

BRADSHAW HALL SWALES, honorary assistant curator of the division of birds in the U. S. National Museum, died on January 23, in his fifty-fourth year.

CHARLES W. MEAD, honorary curator of Peruvian archeology on the scientific staff of the American Museum of Natural History, died on February 3 at the age of eighty-two years.

DR. JOHANNES FIBIGER, professor of pathological anatomy at the University of Copenhagen, who was awarded the Nobel prize last October for his work on cancer, died on January 31.

A CORRESPONDENT writes of Dr. Chase Palmer, who died in San Francisco at the age of seventy-one years on November 18, 1927, as follows: For the past few years Dr. Palmer had been engaged in research and consulting work on chemical problems with special reference to the occurrence and recovery of petroleum. His undergraduate work was begun at Princeton and continued at the Johns Hopkins, where he received the degrees of A.B. in 1879 and Ph.D. in 1882. Dr. Palmer was engaged in teaching for a number of years, doing research work as time permitted. From 1907 he was almost entirely occupied with research with the United States Geological Survey till 1919 and with the Southern Pacific Company till 1921. His later publications were largely on geochemical studies of ore deposition and enrichment and on the geochemistry of waters, with special reference to the relations between natural waters and petroleum. His work on oil-field waters has been of much practical value in the production of oil.

At the next meeting of the Columbia University chapter of the Sigma Xi, to be held in the new Chandler laboratories on February 16, Dr. H. C. Sherman will describe the research activities of the department of chemistry and Dr. Thomas B. Freas will explain the arrangement and equipment of the laboratories and at the conclusion of his talk will conduct a tour of inspection through the building.

THE Science League of America, Inc., has arranged with Station KFRC, one of the largest broadcasting stations on the Pacific Coast, to give a series of radio talks on evolution, by the president of the Science League, Maynard Shipley. These talks will be given on alternate Thursday afternoons, at 4 o'clock, the last

one having been on February 2 on "What Evolution means to you."

THE following series of lectures will be given at the New York Botanical Garden on Saturday afternoons at 3:30: February 4, "Important Tropical Fruits," Dr. H. A. Gleason; February 11, "Yellowstone Park's Trees, Flowers and Wonders," Dr. Henry R. Rose; February 25, "California Gardens," Miss Hilda Loines; March 3, "Rambles of a Naturalist among the Indians," Dr. Clyde Fisher; March 10, "Plant Hybrids: How they are produced and their Uses," Dr. A. B. Stout; March 17, "Botanizing in Trinidad," Dr. Tracy E. Hazen; March 24, "Florida," Dr. J. H. Barnhart, and March 31, "The Present Status of Evolution," Professor John M. Coulter.

UNIVERSITY AND EDUCATIONAL NOTES

A DONATION of \$128,000 to Columbia University by the alumni of the College of Physicians and Surgeons to found a professorship in pathology at the medical school has been announced by Dr. Francis Carter Wood, as spokesman for the alumni. The money will be held in trust by the university until it reaches the sum of \$200,000. The professorship will be called the Francis Delafield professorship, in honor of the founder of the pathology laboratory at the College of Physicians and Surgeons.

A GIFT of \$1,650,000 for the erection of four residence halls for women students at Cornell University has been announced by Dr. Livingston Farrand. The name of the donor was withheld by request.

GROUND has been broken for the \$750,000 institute of pathology at Western Reserve University. The building is a gift of the Rockefeller Foundation.

THE publication of the report of Charles F. Adams, treasurer of Harvard University, shows that the total endowment of Harvard, exclusive of land and buildings used for educational purposes, is now more than \$82,000,000.

At the University of New Hampshire, a separate graduate school under its own director has been established. Although no director has been officially chosen to head the new division of the state university, it has been intimated that Dr. Hermon Slobin, head of the department of mathematics, would fill the position.

DR. JAMES BUELL MUNN, assistant dean of Washington Square College of New York University, has been elected dean of the college. Dr. Munn will succeed Dr. John R. Turner, who recently was elected president of West Virginia University.

DRS. MARION ARTHUR BLANKENHORN and Roy Wesley Scott, now associate professors of medicine at Western Reserve University, have been promoted to the rank of clinical professor.

ASSOCIATE PROFESSOR J. B. REYNOLDS, of Lehigh University, has been promoted to a full professorship of mathematics and theoretical mechanics.

RALPH G. MEEDER, assistant professor of biology at Hamilton College, has been appointed instructor of biology at Wesleyan University, Connecticut.

PROFESSOR ARTHUR HUTCHINSON, F.R.S., professor of mineralogy and fellow of Pembroke College, has been elected master of Pembroke College in succession to the late Dr. W. S. Hadley.

PROFESSOR JAMES HENRY DIBLE has been appointed professor of pathology and bacteriology in the Welsh National School of Medicine.

DISCUSSION AND CORRESPONDENCE

ALEXANDROVSK BIOLOGICAL STATION

FOR biologists who have an interest in the low temperature relationships of organisms, probably no station is better situated than the one at Alexandrovsk at the mouth of the fjord by which the Kola River empties into the Arctic Sea. The faunal materials available at this station are brought into the arctic by the warm waters of the Gulf Stream. Many of the forms are in great abundance and easily obtainable. They have an interesting relationship to the fluctuating currents of the Gulf Stream. Owing to the changes in position of the four divisions of this current there is much fluctuation in the temperature, salinity, acidity and other ecological factors in this portion of the Arctic Sea.

The station is well established, having been in operation for twenty-eight years. The four major buildings are well situated immediately at the water's edge. Good housing space is available for 120 regular students who spend part of the summer months at Alexandrovsk, and for the 150-200 students who visit the station for a few days. There is usually a staff of 25-30 instructors, research workers, and specialists in residence. The director, Dr. G. A. Kluger, has made special arrangements for the entertainment of foreign scientists. Usually there are several persons in residence who can speak any of the principal languages.

The instruction at the station is excellent in comparative zoological anatomy. This phase of the work is under the direction of Dr. Nicholas Tanaseiichock with three assistants and three preparators. In the division of physiology Dr. Kreps was working on the effects of the acidity and salinity of the water