

session with the agronomists; on Friday the two societies had separate meetings, Friday morning's session of the plant physiologists was devoted to demonstrations and the reading of papers on various phases of plant physiological work. The subjects considered were, the production and measurement of light, including polarized light, and fluorescence and phosphorescence, winter hardiness in alfalfa varieties and in apple varieties, methods and apparatus for measuring freezing points and killing points, methods of construction of thermocouples and their use in temperature measurements, use of ethylene in breaking the rest period, tracheal contents of the apple tree and the preservation of fruits and vegetables in their natural color. There were forty-five plant physiologists present at this meeting and much interest was manifested in the program.

Friday afternoon was devoted to an inspection tour. The Linnaean library and the new botany building under construction on the university campus at Minneapolis were visited. Trips were also made through the Washburn Crosby Flour Mills and the banana plant of the E. P. Stacy Co. Friday evening all were entertained by Dr. and Mrs. R. B. Harvey at a picnic dinner on the banks of the St. Croix river twenty-five miles from St. Paul. It was a very pleasant social occasion.

The newly elected officers for the year 1926-27 are, *President*, Dr. Francis E. Lloyd, McGill University; *Vice-president*, Dr. Wright A. Gardner, Auburn Polytechnic Institute; *Secretary-treasurer*, Dr. S. V. Eaton, University of Chicago.

THE INTERNATIONAL CONFERENCE ON FLOWER AND FRUIT STERILITY

THIS conference is being held in New York City during the present week under the auspices and with the financial support of the Horticultural Society of New York. The organization of the conference has been in the charge of an executive committee consisting of Dr. N. L. Britton, *chairman*, Mr. Frederic Newbold, *treasurer*, and Dr. A. B. Stout, *secretary*, and a local advisory committee consisting of Professor R. A. Harper and Professor H. M. Richards, of Columbia University; Dr. C. Stuart Gager, director of the Brooklyn Botanic Garden; Dr. William Crocker, director of the Boyce Thompson Institute for Plant Research, and Mr. Leonard Barron, editor of *Garden and Home Builder*. Various persons both in America and abroad have rendered valuable assistance in the development of the program.

The conference convened at Columbia University in the auditorium of Schermerhorn Hall, on Thursday morning after an opening address by Dr. N. L. Britton, and an address of welcome by T. A. Have-

meyer, president of the Horticultural Society of New York. A program of nine papers was presented. At the close of this session motor busses were provided for the trip to the New York Botanical Garden where lunch was served and a scientific program presented. Afterwards there was opportunity for inspection of the garden.

The sessions of Friday were held at the Boyce Thompson Institute for Plant Research, Yonkers. A smoker with informal discussion was held in the evening. The conference held its sessions on Saturday at the Brooklyn Botanic Garden.

The foreign men of science announced to take part in the conference were: Fred J. Chittenden, director of the Royal Horticultural Society Garden, England; M. B. Crane, The John Innes Horticultural Institution, England; Dr. Kathleen B. Blackburn and Dr. J. W. Heslop Harrison, Armstrong College, University of Durham, Newcastle-on-Tyne, England; Dr. F. Gagnepain, Museum d'Histoire Naturelle, Paris, France; Professor Ernst Lehmann, University of Tübingen, Germany; Dr. M. J. Sirks, Institut voor Plantenverdeling, Wageningen, Holland; Dr. W. E. de Mol, Lisse, Holland; Erling Kvaale, Norway, Dr. Rudolph Florin, Royal Swedish Museum of Natural History, Stockholm, Sweden; Professor F. Kotowski, College of Agriculture, Warsaw, Poland; Professor W. Paschkevitch, presented by Professor N. Maxomow, Institute of Applied Botany, Leningrad, Russia; Professor Torasaburo Susa, Hokkaido Imperial University, Sapporo, Japan, and Professor Akio Kikuchi, Tottori Agricultural College, Japan.

SCIENTIFIC NOTES AND NEWS

M. PAUL LANGEVIN, professor of physics at the Collège de France, has been elected president of the French Association for the Advancement of Science.

THE fifth William Thompson Sedgwick Memorial Lecture was given this year at the Marine Biological Laboratory at Woods Hole, Mass., by Professor Thomas Hunt Morgan, of Columbia University, whose subject was "Genetics and the Physiology of Development." The lectureship was established in 1922. Earlier lecturers have included Dr. Edmund B. Wilson, of Columbia University; Dr. William H. Welch, of the Johns Hopkins University; Dr. W. J. V. Osterhout, formerly of Harvard and now of the Rockefeller Institute for Medical Research, and Dr. Charles V. Chapin, superintendent of health, Providence, R. I.

THE medal of the American Society of Mechanical Engineers was awarded to Dr. Robert Andrews

Millikan, on June 30, following the dinner at the Palace Hotel, San Francisco. President Abbott introduced Warren H. McBryde, chairman of the San Francisco section and chairman of the local committee of arrangements, who acted as master of ceremonies. Past-president Ira N. Hollis, chairman of the committee on awards, and Past-president William F. Durand presented Dr. Millikan. Dr. Durand made the presentation address in which he outlined the achievements of the medalist as a scientific man and as an engineer. President Abbott bestowed the medal, the highest award of the society, with a simple statement, to which Dr. Millikan responded in equally simple terms, expressing his heartfelt appreciation of the honor. Following introductory remarks by Mr. McBryde, Dr. Millikan made an address on "Atomic Mechanics."

At the close of his address the president of the British Medical Association, Dr. R. G. Hogarth, was asked to present to Sir Humphry Davy Rolleston, regius professor of physics in the University of Cambridge, the association's Gold Medal of Merit and an illuminated address in recognition of his scientific work and of his distinguished services to the profession and to the British Medical Association.

THE Messel Memorial Medal was presented to Lord Balfour at the opening meeting in London of the Society of Chemical Industry and Congress of Chemists. Lord Balfour delivered the Messel Memorial Lecture, taking as his subject "The Relation of the State to Science and Industry."

THE 1924 first national prize of Argentina for "sciences" has been granted to Dr. Tiburcio Padilla, for his book on electrocardiography. The value of the prize is about \$12,000.

WE learn from *Nature* that Professor Carl Diener, professor of paleontology in the University of Vienna, has been elected a foreign member of the Geological Society, London. The following have been elected foreign associates of the society: Dr. A. L. Day, of the Geophysical Laboratory, Washington, D. C.; Professor Otto Jäkel, professor of geology and paleontology in the University of Greifswald; Professor Maximin Lohest, professor of geology and physical geography in the University of Liège, and Professor Pierre Pruvost, professor of geology and applied mineralogy in the University of Lille.

THE University of Liverpool will confer the degree of master of science, *ex officio*, on Mr. Herbert Clifton Chadwick in consideration of meritorious services rendered to the staff and students, and of distinction in zoological research during the period 1897-1922, when he was curator of the Marine Biological Station at Port Erin, Isle of Man.

THE fiftieth anniversary of the scientific career of the Russian physicist, Professor O. D. Khvolson, was celebrated on May 16, at Leningrad, in the auditorium of Leningrad University. The proceedings were opened by Academician Joffe, a student of Professor Khvolson, who declared the meeting open on behalf of the Russian Association of Physicists. Greetings to Professor Khvolson on behalf of the Academy of Sciences were delivered by Professor Oldenburg, who was followed by Professor Fersman, Professor Kamenstchikov and others. In commemoration of the anniversary it was decided to change the name of the University Library into that of Khvolson Library.

DR. HANOR A. WEBB, George Peabody College for Teachers, Nashville, Tennessee, has been elected chairman and Dr. Francis D. Curtis, University High School, University of Michigan, Ann Arbor, Michigan, has been elected secretary of the Science Section of the National Education Association to serve for the year 1926-27.

SIR BERKELEY MOYNIHAN (Leeds), has been elected president and Sir Cuthbert Wallace and Mr. Francis J. Steward vice-presidents of the Royal College of Surgeons, for the coming year.

DR. M. TORINO has been appointed president of the National Academy of Medicine of Argentina.

SIR JAGADIS C. BOSE, founder and director of the Bose Research Institute, Calcutta, who is at present in England lecturing and giving experimental demonstrations on plant stimuli and responses, has been elected president of the Indian Science Congress to be held in Lahore in January next.

At the recent meeting of the British Medical Association, it was agreed to elect John Francis Hall-Edwards, known for his work and sufferings in connection with X-rays, an honorary member in recognition of his services to medicine. The vote was unanimous and with acclamation.

DR. E. FISCHER, professor of anatomy at the University of Freiburg, has been appointed director of the institute for anthropologic research now being organized at Dahlem.

DR. W. H. GIBSON, for the past seven years in charge of the research department of a Belfast linen firm, has been appointed director of research for the Linen Industry Research Association in succession to Dr. J. Vargas Eyre.

PROFESSOR MARSTON TAYLOR BOGERT, senior professor of organic chemistry, Columbia University, has accepted the position of contributing editor of *The American Perfumer and Essential Oil Review*.

ROBERT M. DAVIS, statistical editor of *The Electrical World* since 1919, has been promoted to be statistical adviser and consultant of the McGraw-Hill publications. Prior to joining the staff of *The Electrical World*, Mr. Davis was for several years identified with the United States Geological Survey, engaging in engineering and statistical work in connection with water-power development. Gustav F. Wittig, formerly assistant professor of electrical engineering at Yale University, will succeed Mr. Davis.

M. L. WILSON, for the last two years in charge of the division of farm management and costs, Bureau of Agricultural Economics, resigned on July 19 to return to the Montana State College Experiment Station. H. R. Tolley, of the division of farm management and costs, has been appointed his successor.

H. N. CARLSON, formerly of the Massachusetts Institute of Technology and Wentworth Institute, is now associated with the R. H. Baker Company, Inc., Cambridge, Mass., as engineer of construction and design.

DR. HAROLD S. PALMER, professor of geology in the University of Hawaii, has been granted a sabbatical leave for research in Europe and the South Seas. Otis W. Freeman, of the State Normal School at Cheney, Wash., will be acting professor of geology in the University of Hawaii at Honolulu for the school year of 1926-27.

PROFESSOR IVAN C. SHUNK, of North Carolina Agricultural College, is spending a ten weeks' period of research in the department of soil microbiology of the New Jersey Agricultural Experiment Station.

DR. TAGE U. H. ELLINGER, director of the Department of Live Stock Economics of the International Live Stock Exposition, Chicago, upon nomination by Secretary Jardine, has been invited to represent the United States at the dedicatory exercises and the international professional meeting at the Royal Veterinary and Agricultural College of Denmark, on August 24 to 27. Dr. Ellinger will officially represent the International Live Stock Exposition Association, the University of Chicago, the American Society of Animal Production, the American Farm Economic Association and the Institute of American Meat Packers.

DR. JEAN CHARCOT sailed on his ship, the *Pourquoi Pas*, from Cherbourg on July 15, on a long research cruise in the Arctic regions. He was accompanied by a number of scientific men.

IN addition to the papers listed in SCIENCE for July 23 forming the symposium on the relation be-

tween pure and applied science to be given before the section of engineering at the Christmas meeting in Philadelphia of the American Association for the Advancement of Science, Dr. Vernon Kellogg, permanent secretary of the National Research Council, will speak on "Biology."

DR. K. W. WAGNER, president of the German department of telegraphs, has been invited to give a series of lectures at the Massachusetts Institute of Technology.

DR. ARNOLD SOMMERFELD, professor of theoretical physics at the University of Munich, recently made a lecture tour of the British universities of Oxford, Cambridge, Edinburgh and Manchester. His subject was "Atomic Structure."

THE Victor Horsley Memorial Lecture of the British Medical Association was delivered on July 9, at the association's headquarters, by Mr. Wilfred Trotter, surgeon to the University College Hospital, on "The Insulation of the Nervous System."

ON commemoration day at Glasgow University, tributes were paid to the memory of Sir William Macewen, who occupied the regius chair of surgery for thirty-two years. It was intended that Professor Harvey Cushing should deliver an oration on the life and work of Macewen, but he was unable to go to Scotland. In his absence Archibald Young, successor to Sir William Macewen in the regius chair, gave an oration.

FRIENDS of Professor Luigi Donati have published, through the firm of Zanichelli, a collection of his principal memoirs. The volume was presented to Professor Donati in July, 1925, in celebration of his fortieth anniversary as member of the faculty of the Bologna School of Engineering.

A MEMORIAL to Ernst Mach was unveiled in the Rathaus Park in Vienna on June 12. Professor Schlick, who succeeded Mach in his chair at the University of Vienna, made the principal address.

Nature reports the following deaths: Mr. A. G. Charleton, past president of the Institution of Mining and Metallurgy, and author of numerous works on ore-mining and treatment, on July 7, aged sixty-eight years; Mr. W. Temple Franks, lately H.M. Comptroller-General of Patents, Designs and Trade Marks, on July 4, aged sixty-three years; Mr. F. Harrison Glew, a pioneer in the utilization of radium and its salts for the preparation of luminous paint and other purposes, on July 10, aged sixty-eight years; Sir Peter Scott Lang, emeritus professor of mathematics in the United College at the University of St. Andrews, on July 5, aged seventy-five years.

The Journal of the American Medical Association announces the death of Dr. Henseval, professor of hygiene and bacteriology at the University of Ghent.

THE International Congress of Physiology opened a five-day session at Stockholm on August 1 under the presidency of Professor J. E. Johansson. There were 567 delegates in attendance, the United States and Germany sending 100 each, and France and England 40 each.

HAVING attained Disko Island, Greenland, northmost point of its itinerary, the Rawson-MacMillan sub-Arctic expedition of the Field Museum is now sailing southward on the first leg of the homeward journey, according to a radiogram received by the director of the museum. All members of the party were well.

THE New York Academy of Sciences offers a Cressy Morrison Prize of the value of \$250 for an essay on the "Interatomic Energy of the Sun." The paper must be presented to the secretary of the academy prior to November 1, 1926.

A LENIN MEMORIAL PRIZE for scientific researches has been founded by decision of the Council of People's Commissaries of USSR. The Lenin Prize will be available for researches in all branches of science, providing that the researches are of considerable practical importance. The award of the prize will be in charge of a committee of experts comprising representatives of the USSR Academy of Sciences, the Ukrainian Academy of Sciences, the educational authorities of Soviet Russia and Ukraine, the Scientific Workers' Professional Union and the Scientists' Welfare Committee, with Professor M. N. Pokrovsky as chairman and O. J. Schmidt as vice-chairman. The prizes will be open only to citizens of USSR.

THE Cambridge University Press has recently undertaken to publish *The British Journal of Experimental Biology*. It is the official medium of publication of the Society for Experimental Biology, but its contributors are not limited to members of this society nor to the universities of Great Britain. The editor is Mr. James Gray, of King's College, Cambridge, with the assistance of Dr. Crew, of Edinburgh, and of eight other biologists representative of the different subjects concerned.

UNIVERSITY AND EDUCATIONAL NOTES

HENRY N. WOLLMAN, a business man of Philadelphia and a graduate of the University of Pennsylvania, has offered as a gift to the university a

site comprising 178 acres overlooking Valley Forge Park as a new location for its undergraduate schools. The offer will be considered on behalf of the university board of directors by a committee of five to be appointed by Dr. Charles Custis Harrison.

A TECHNICAL COLLEGE to be known as the General Motors Institute of Technology will be established at Flint, Mich. The new school will absorb the Flint Institute of Technology now scattered throughout the city in small units under the direction of the Industrial Mutual Association. The courses will be conducted on the cooperative plan, with alternate four weeks in the factories and four weeks in the institute.

DR. LEONER MICHAELIS, professor of the applications of physical chemistry to medicine at the University of Berlin, and Dr. Karl Herzfeld, professor of physical chemistry at the University of Munich, have been called to the Johns Hopkins University.

DR. OSKAR SCHMEIDER, lecturer in geography at the University at Bonn, has been appointed associate professor of geography at the University of California.

PROFESSOR CLARENCE VICTOR CHRISTIE, associate professor of electrical engineering at McGill University, Montreal, has succeeded the late Professor L. A. Herdt as Macdonald professor of electrical engineering and head of the department of electrical engineering of the university.

A. C. BAILEY, who received his master's degree this summer from Iowa State College (Ames), goes to the Chulalongkorn University at Bangkok, Siam. He will have charge of the development of the department of physics at the Government University under a grant from the Rockefeller Foundation.

DR. JOSEPH H. SIMONS, head of the department of chemistry of the University of Porto Rico, will join the staff of the department of chemistry at Northwestern University.

G. RICHARD BURNS has resigned his position as research chemist in the dyestuffs division of the du Pont Company to become instructor in chemistry at Yale University next year.

RECENT appointments of fellows in medicine of the National Research Council, to academic positions, are as follows, the department in which they have been working being given in italics: Barry J. Anson, *Dr. F. T. Lewis, Harvard*, instructor in anatomy, Northwestern University Medical School; Sydney W. Britton, *Dr. W. B. Cannon, Harvard*, associate in physiology, Johns Hopkins; W. V. Cone, *Dr. J. W. Jobling, Columbia*, department of surgery, College of