

Hegner, director, department of protozoology, School of Hygiene and Public Health, Johns Hopkins University, amebiasis in Panama; William C. Rose, professor of physiological chemistry, University of Illinois, the nutritive importance of the amino acids; Gordon H. Scott, associate professor of cytology, Washington University, the distribution of mineral salts in nerve cells and fibers.

Charles E. Burt, professor of biology, Southwestern College, the lizards of the United States and Canada; F. G. Gustafson, assistant professor of botany, University of Michigan, the anaerobic respiration of cacti; E. B. Hart, professor of agricultural chemistry, University of Wisconsin, the form and availability as food for animals of the iron in plant and animal tissues; LaDema M. Langdon, assistant professor of biology, Goucher College, the embryogeny of the Juglandaceae and Fagaceae; William J. Robbins, professor of botany, University of Missouri, determination of the conditions necessary for the continued cultivation of excised tissues; V. E. Shelford, professor of zoology, University of Illinois, the rodents of the Canadian tundra.

Leonard Carmichael, professor of psychology, Brown University, the cutaneous reflexogenous zones in the fetal guinea pig; Franklin Fearing, associate professor of psychology, Northwestern University, the functions of the non-acoustic labyrinth in birds; Laurence Foster, Stowe Teachers College, St. Louis, racial mixture between Negro, Indian and White stock in Maryland and Delaware; William Morgan, research associate, Yale University, personality studies of Navaho Indians; George M. Peterson, assistant professor of psychology, University of Denver, mechanisms of handedness in the rat; E. Sapir, department of social sciences, Yale University, songs of the Nitinat Indians; T. C. Schneirla, assistant professor of psychology, New York University, the behavior of the legionary ants of Panama of the sub-family Dorylinae; Calvin P. Stone, professor of psychology,

Stanford University, mental characteristics of senile male albino rats.

GEORGE K. BURGESS,
Chairman

THE MEDAL MEETING OF THE FRANKLIN INSTITUTE

At the annual medal meeting of the Franklin Institute on May 18 the following medals and awards were presented:

Certificate of Honorary Membership, George A. Hoadley, Sc.D., Swarthmore, Pennsylvania.

Certificate of Merit, Thomas Randolph Harrison, The Brown Instrument Company, Philadelphia.

The Longstreth Medal, Josua Gabriel Paulin, System Paulin Aktiebolag, Stockholm.

The Wetherill Medals, Halvor Olsen Hem, Toledo Scale Manufacturing Company, Ohio; Monroe Calculating Machine Company, Inc., Orange, New Jersey; Messrs. Baltzar Carl von Platen and Carl Georg Munters, Platen-Munters Refrigerating System, Stockholm; Frank Wenner, Bureau of Standards.

The Levy Medal, Wayne Buckles Nottingham, assistant professor of physics, Massachusetts Institute of Technology.

The Clark Medal, Philip Thornton Dashiell, United Gas Improvement Company, Philadelphia.

The Potts Medal, George Paget Thomson, professor of physics, Imperial College of Science and Technology, London.

The Cresson Medals, Percy Williams Bridgman, professor of physics, Harvard University; Charles LeGeyt Fortescue, Westinghouse Electric and Manufacturing Company, Pittsburgh; John Boswell Whitehead, dean, School of Engineering, the Johns Hopkins University.

The Franklin Medal and Certificate of Honorary Membership, Ambrose Swasey, The Warner and Swasey Company, Cleveland; Philipp Lenard, director, Radiological Institute, University of Heidelberg; received by the German Consul General in New York, Dr. O. C. Kiep.

Papers will be presented by the Franklin medalists: One entitled "Some Scientific Views" will be presented *in absentia* by Dr. Lenard and Dr. Swasey will speak on "Astronomers and Their Telescopes."

SCIENTIFIC NOTES AND NEWS

THE degree of honorary doctor of medicine has been conferred by the University of Amsterdam on Dr. Harvey Cushing, Moseley professor of surgery in the Harvard Medical School and surgeon-in-chief of the Peter Bent Brigham Hospital. Dr. Cushing plans to relinquish his work at the school and the hospital at the end of the academic year.

ON the occasion of the celebration of the commencement of the Michigan College of Mining and Technology at Houghton the honorary degree of doctor of engineering will be conferred on Scott Turner, di-

rector of the U. S. Bureau of Mines, and on C. Harry Benedict, chief chemist of the Calumet and Hecla Mining Company. Mr. Turner will be the commencement speaker.

DR. TREAT B. JOHNSON, Sterling professor of chemistry at Yale University, and Dr. Herbert M. Evans, director of the Institute of Experimental Biology at the University of California, were among those elected to membership in the German Imperial Academy of Sciences at Halle at the meeting held on March 17 in commemoration of the centenary of the death of Goethe.

PROFESSOR ALBERT EINSTEIN is in England where he planned to spend three weeks at Christ Church College, Oxford. He delivered the lecture on the Rouse Ball Foundation at the University of Cambridge on May 6. The title of the lecture was "Die Theorie der Elektrizität im Rahmen der allgemeinen Relativitätstheorie." The doctorate of laws will be conferred on Dr. Einstein by the University of Glasgow. On account of engagements, however, he is unable to be present in June, but plans to attend the graduation ceremonies in 1933.

ELECTIONS of corresponding members of the Bavarian Academy of Sciences include: Dr. Ludwig Jost, professor of plant physiology at Heidelberg; Dr. Franz Kossmat, professor of geology at Leipzig, and Dr. Hans Stelle, professor of geology and paleontology at Göttingen.

M. M. VILLAT, professor at the Sorbonne, Paris, has been elected a member of the Paris Academy of Sciences in the section of mechanics to succeed the late G. Koenigs.

DR. CHARLES H. HERTY, of New York, chemical industrial consultant, received the medal of the American Institute of Chemists for "noteworthy and outstanding service to the science and profession of chemistry in America" at the annual meeting of the institute in New York City on May 7. Dr. Frederick E. Breithut, president of the institute, presided and made the presentation. Other speakers were: Joseph E. Ransdell, former U. S. Senator from Louisiana and now executive director of the conference board of the National Institute of Health; Dr. Marston T. Bogert, professor of organic chemistry at Columbia University, and Henry W. Jessup, lawyer. Former recipients of the annual medal include Andrew W. and Richard B. Mellon, for the establishment of the Mellon Institute for Industrial Research; the late George Eastman, and Mr. and Mrs. Francis P. Garvan, who established the Chemical Foundation.

JUAN DE LA CIERVA has been awarded the Guggenheim Gold Medal of 1932 for development of the theory and practice of the autogyro. This award was made by a board having eight members in the United States of America and seven foreign members. The foreign countries represented are Canada, England, France, Germany, Holland, Italy and Japan. The Daniel Guggenheim Medal was established in 1928 by the Daniel Guggenheim Fund for the Promotion of Aeronautics. It is sponsored jointly by the American Society of Mechanical Engineers and the Society of Automotive Engineers, each of whom appoint four members of the board of award. The president of the 1931-32 board, which awarded the medal to Mr. Cierva was Admiral H. I. Cone, commissioner of the

U. S. Shipping Board. At the recent annual meeting, Captain Emory S. Land, of the Navy, was elected president for 1932-33, and Major E. E. Aldrin, vice-president. Medals have been awarded previously to Orville Wright, Ludwig Prandtl, Germany, and Frederick William Lanchester, England.

WILLIAM E. MOTT, retiring director of the College of Engineering of the Carnegie Institute of Technology, Pittsburgh, was the guest of honor at a dinner recently given by Dr. Thomas S. Baker, president of the institute.

FOUR senior members of the faculty of the Boston University School of Medicine—Dr. J. Emmons Briggs, professor of surgery; Dr. Alonzo G. Howard, professor of orthopedic surgery; Dr. Wesley T. Lee, professor of dermatology, and Dr. Clarence H. Dobson, assistant in medicine—and the staff of the Massachusetts Memorial Hospitals were honored with special recognition of their services to the two institutions, by more than a hundred of their colleagues at a testimonial dinner recently given in the University Club.

THE seventeenth annual meeting of the South Dakota Academy of Science was held at Yankton College, South Dakota, on May 6 and 7. The reading of papers by members occupied Friday afternoon and Saturday morning. After the academy dinner on Friday evening, Dr. S. C. Lind, director of the School of Chemistry of the University of Minnesota, delivered an address on "The Contributions of Radioactivity to Science." The following officers were elected for the year 1932-33: *President*, George Gilbertson, State College; *First Vice-president*, A. V. Arlton, Dakota Wesleyan University; *Second Vice-president*, Edw. P. Churchill, University of South Dakota; *Secretary-treasurer*, A. L. Haines, University of South Dakota.

DEAN WILLIAM F. LASBY, of the College of Dentistry at the University of Minnesota, was elected president of the American Association of Dental Schools at the recent meeting in Columbus, Ohio. Dean Lasby will take office in 1933.

ON the evening of May 10 was held the ninth annual meeting of the Virginia Chapter of Sigma Xi. Fifteen candidates were admitted to membership at this meeting. The annual address was delivered by Dr. Carl C. Speidel, professor of anatomy in the University of Virginia Medical School, on "The Growth and Repair of Living Nerves." The eighth annual award of the President and Visitors' Research Prize of one hundred dollars was made to Drs. A. F. Benton and T. A. White, of the department of chemistry for their paper on "Discontinuities in Adsorption Isotherms."

DR. HENRY E. SIGERIST, director of the Institute of the History of Medicine at the University of Leipzig, has been appointed professor of the history of medicine in the Johns Hopkins University Medical School. He will take up this work on July 1. Dr. Sigerist will succeed Dr. William H. Welch, in whose name the chair was founded at the same time that the William H. Welch Medical Library was established.

DR. LEE MAIDMENT HURD, professor of laryngology, and Dr. John McCloy, clinical professor of laryngology, both of New York University and Bellevue Hospital Medical College, have retired from active service and each will be named professor emeritus. Dr. Richard Atkins Davis, surgeon in charge of otolaryngology service at Bellevue Hospital, has been appointed professor of otolaryngology, effective September 1. Dr. Davis will head a new department of otolaryngology, which will be a combination of the departments of otology and laryngology.

DR. JOHN STEWART has resigned his position as dean of the Medical Faculty at Dalhousie University, Halifax, Nova Scotia.

THE Electrochemical Society has recently awarded the Weston Fellowship in Electrochemistry for 1932-33 to Mr. Marlin E. Fogle, of Diagonal, Iowa. He will continue his studies at Columbia University under the direction of Dr. Colin G. Fink.

THE department of chemistry of the College of Wooster, Ohio, announces the award to John Wellman of the Ralph H. McKee Prize. This prize, provided by Professor McKee, of Columbia University, an alumnus of Wooster, consists of a two-year membership in the American Chemical Society, and is awarded to that student who, at the end of the first semester of his junior year, has the highest standing in chemistry.

AMONG those giving courses in the summer session of the School of Medicine of the University of California will be Dr. J. W. Bridges, professor of abnormal psychology of the McGill University faculty of medicine, and Dr. Mark A. May, professor of educational psychology at Yale University.

PROFESSOR S. O. MAST, of the Johns Hopkins University, recently gave two lectures at Oberlin College; one on "Color in Organisms" and one on "Structure, Locomotion and Response in Amoeba." The lectures were given under the auspices of the department of zoology of Oberlin College.

DR. RALPH PEMBERTON, associate professor of medicine at the University of Pennsylvania and chairman of the American Committee for the Control of Rheumatism, recently gave a clinic on arthritis at the Duke Hospital, and the following week Dr. Warren

H. Lewis, of the department of embryology, Carnegie Institution of Washington, conducted a clinic on cancer.

THE guest speaker at the annual meeting of the Toronto Biochemical Society, held jointly with the Toronto Chemical Association, in Toronto, was Dr. R. W. Gerard, of the department of physiology of the University of Chicago. Dr. Gerard spoke on "Energy Relations in Cell Oxidations."

ACCORDING to *Nature* Lord Rutherford opened a discussion on "The Structure of Atomic Nuclei" at a recent meeting of the Royal Society. Dr. J. Chadwick, Dr. C. D. Ellis, Professor R. H. Fowler, Professor J. C. McLennan, Professor F. A. Lindemann and Mr. N. F. Mott were expected to take part.

SECTION O, Agriculture, of the American Association will meet in joint session with the northeastern section of the American Society of Agronomy at the summer meetings of the association in Syracuse, June 21, when they will participate in the program on land utilization. On June 22 the meeting will be held at Geneva, New York, consisting mainly of a visit to the laboratory at the New York Agricultural Experiment Station and to the fields, with a study of the fertilizer experiments, the canning crop investigations and the lysimeter experiments. The dinner and business meeting will be held in Geneva, and on June 23 the group will meet at Cornell University at Ithaca for an inspection of the investigational work of the department of agronomy, especially the field experimental work in agronomy and in plant breeding.

THE twentieth annual meeting of the Eugenics Research Association will be held at the American Museum of Natural History, New York City, on June 4. There will be one session for the presentation of scientific papers and another for the transaction of business.

THE annual meetings of the American Society of Zoologists will be held at Atlantic City on December 28, 29 and 30, inclusive, 1932, instead of on December 27 and 29 as previously announced in *SCIENCE*. This will mean the opening of the meetings on the second day of the American Association for the Advancement of Science program as usual. Hotel headquarters for the Zoologists will be "The Ambassador," where all the sessions will be held. Special features will be two or three round-table conferences on topics selected from the following list: endocrinology, radiation, chemistry of the cell, morphogenesis, general physiology of the cell.

THE tenth Colloid Symposium sponsored by the committee on the chemistry of colloids of the National Research Council and the colloid division of the Amer-

ican Chemical Society will be held at Ottawa, Ontario, June 16-18, 1932. Dr. Emil Hatschek, of London, England, will be the guest of honor. A program numbering twenty-seven papers has been arranged by the research council committee of which Harry B. Weiser, Rice Institute, Houston, Texas, is chairman.

THE department of zoology at the University of Minnesota sponsored the following symposium of lectures on glands of internal secretion during the week beginning on May 3: "Physiology of the Ovarian Hormones"; "Hormones Influencing the Primate Endometrium," Frederick L. Hisaw, professor of zoology, University of Wisconsin; "The Reactions of the Testis to Experimental Treatment"; "The Internal Secretions of the Testis," Carl R. Moore, professor of zoology, University of Chicago; "The Hormone of the Adrenal Cortex"; "Physiological Studies on the Adrenal Cortical Hormone," W. W. Swingle, professor of biology, Princeton University.

THE council of the International Association of Wood Anatomists has announced the election of Dr. Samuel J. Record, professor of forest products at Yale University, as secretary-treasurer of the association. The association was constituted at a meeting in Paris last July in conformity with resolutions adopted the year before by wood anatomists attending the fifth International Botanical Congress at Cambridge, England. The purpose of the association is to cooperate in a systematic investigation of the woods of the entire world through the pooling of materials, standardization of terminology and descriptions, and the exploration of little known forest regions. The association has a present membership of fifty investigators in eighteen different countries. The executive council consists of eleven members of eight nationalities, and includes two Americans, namely, Professor Record, of Yale University, and Professor Irving W. Bailey, of Harvard University.

RENSSELAER POLYTECHNIC INSTITUTE, Troy, N. Y., ultimately will receive the major portion of the estate of James C. McGuire, engineer, who died December 7, 1930, leaving an estate valued at \$1,352,072 net. The residue of the estate will go to the institute after the death of a sister, Miss Mary M. McGuire.

ACCORDING to the London *Times* a new empire center for the scientific study of internal parasites has been established in Canada, with the assistance of a grant from the Empire Marketing Board. New buildings, which will house the Institute of Parasitology, are now being erected by the Quebec Government at Macdonald College, the agricultural college attached to McGill University. The work is to be undertaken at the Macdonald College, and the scheme is being financed for three years jointly by the Empire

Marketing Board and the National Research Council of Canada. It marks the first occasion on which the Canadian Government and the Empire Marketing Board have combined to support a joint scheme of research. The *Times* points out that internal parasites are the stock farmers' biggest problems all over the Empire; in Canada alone the annual loss through parasitic infestation is estimated at £4,000,000. It is hoped that the new institute may eventually become an Empire headquarters for the study of internal parasites, somewhat as Onderstepoort, in South Africa, has become recognized as an Empire center for animal diseases research.

FACILITIES for chemical instruction and research at the Michigan College of Mining and Technology, Houghton, were considerably enlarged this spring with the completion of a three-story addition to Koenig Hall, chemistry building. The annex, which with its equipment cost \$90,000, adds 13,500 square feet of floor space. Approximately half of this is devoted to five laboratories—chemical engineering, gas and fuel analysis, physical chemistry, qualitative analysis and organic chemistry. The rest of the new structure is used for five instructor's offices, several preparation rooms, sections for photographic and spectroscopic work and three research rooms. Among the apparatus installed in the annex is a horizontal double-effect Swenson evaporator given by the Massachusetts Institute of Technology.

THE New York State Conservation Department has announced the purchase of 24,000 acres of land to be added to the forest preserve. One tract of 21,000 acres in northern Herkimer County, near the Beaver River, is the largest block added to the preserve in recent years. It is extensively wooded with virgin forests. "These purchases," said Henry Morgenthau, conservation commissioner, "show that although the state is obtaining large tracts of land outside of the forest preserve for reforestation purposes, it is not neglecting to preserve itself but is constantly increasing its extent." The other tract of land, just taken over by the commission, consists of 3,000 acres comprising Howland's Island, lying in the Seneca River east of Seneca Falls in Cayuga County. It will be developed into a game refuge or public hunting ground. It consists of meadow land in the Montezuma marshes. It is partly wooded, but most of it is abandoned farm land. The locality is especially suited for pheasants and cottontail rabbits. In addition to Howland's Island proper the purchase includes Campbell or Busk Island and a portion of mainland known as Bluff and Hard Points. It will be developed by the division of Fish and Game of the Conservation Department.