

11, 12 and 13, in Lane Hall at the Stanford University Medical School in San Francisco.

The Lane Medical Lectures were founded in 1896 by the late Dr. Levi Cooper Lane. They consist of a free course of lectures on medical subjects by men distinguished at home or abroad for their work in either medicine or surgery, and are intended for medical students and the medical profession at large.

The lecture on November 13 will be on "The University of Bologna in the history of medicine." Dr. Putti, who will give the lecture series, is professor of orthopedic surgery at the University of Bologna and director of the Rizzoli Institute of Bologna, Italy.

The previous lectures have been given by Dr. Simon Flexner, director of the laboratories at the Rockefeller Institute for Medical Research, who in 1917 discussed the "Physical basis and present status of specific serum and drug therapy"; Alonzo Englebert Taylor, professor of physiological chemistry at the University of Pennsylvania, who in 1919 spoke on "The feeding of the nations at war." In 1921 the late L. Emmett Holt, of Columbia University, discussed "Growth and nutrition," and last year Dr. Ludwig Aschoff, professor of pathology, University of Freiburg, Germany, delivered the lecture series on "Selected topics in pathology."

SELECTION OF THE CHIEF OF CHEMISTRY DIVISION OF U. S. BUREAU OF STANDARDS

THE United States Civil Service Commission states that the position of chief of the chemistry division of the Bureau of Standards of the Department of Commerce is vacant, and that, in view of the importance of the position in the whole field of chemical research, and to insure the appointment of a thoroughly qualified man for the work, an unusual method of competition will be followed to fill the vacancy. Instead of the usual form of civil service examination, the qualifications of candidates will be passed upon by a special board of examiners composed of Dr. George K. Burgess, director of the Bureau of Standards; Dr. F. G. Cottrell, director of the Fixed Nitrogen Research Laboratory of the Department of Agriculture; Dr. W. A. Noyes, dean of chemistry of the University of Illinois; Dr. W. R. Whitney, chief of the research laboratory of the General Electric Company, and Mr. Frederick W. Brown, examiner of the United States Civil Service Commission. For the purposes of this examination all these men will be examiners of the Civil Service Commission.

The examination will consist solely of a consideration of qualifications by this special board. The minimum qualifications for consideration are a doctor's

degree in chemistry from a college or university of recognized standing, and at least ten years' experience in the direction and performance of chemical research of a character to show the required degree of chemical knowledge and ability, executive capacity of the highest order, thorough familiarity with chemical literature and scientific maturity.

The duties of the position are to act as the scientific and administrative head of the chemistry division of the Bureau of Standards; to determine and execute the policies of the bureau relating to work in chemistry; to be responsible for the maintenance and operation of the division; to direct or to perform research in the field of chemistry, and to prepare reports and data for publication. These duties involve high administrative responsibility, contact with the chemical industry and with the technical experts in the field of chemistry and particularly the ability to plan, direct and coordinate research, investigation and testing of the most advanced character. The opportunities for research and development are practically unlimited, and the laboratory equipment and other facilities are unexcelled.

The entrance salary for this position is \$5,200 a year. Promotion may be made without change in assignment up to \$6,000 a year. The present director of the Bureau of Standards was advanced through promotion from the \$6,000 grade.

Qualified persons who wish to be considered for this vacancy should apply to the United States Civil Service Commission, Washington, D. C., for form 2118, which must be executed and returned, with a list of the applicant's technical publications and reprints of such of these publications as are available, to the office of the Civil Service Commission at Washington not later than Saturday, December 5.

SCIENTIFIC NOTES AND NEWS

DR. CHARLES D. WALCOTT, secretary of the Smithsonian Institution, received the honorary degree of doctor of laws at the annual convocation exercises of the University of the State of New York on October 16. On this occasion Dr. Walcott gave an address on Joseph Henry, which is printed in this issue of SCIENCE.

DR. J. B. WHITEHEAD, professor of electrical engineering and dean of the faculty of engineering of the Johns Hopkins University, Baltimore, has been awarded the triennial prize, for the year 1925, of the Fondation George Montefiore of Liège, Belgium, for the best original work contributing to scientific advancement in the technical applications of electricity. The prize is awarded for his series of papers entitled "Gaseous ionization in built-up insulation." The

amount of the prize this year is 4,000 francs. This is the second time that Dr. Whitehead has been awarded this prize.

THE Morris Liebmann Memorial Prize for this year, one of the two annual awards made by the Institute of Radio Engineers, has been awarded to Frank Conrad, of the Westinghouse Electric and Manufacturing Company, in recognition of his research work in the transmitting and receiving of short-wave length wireless.

LIEUTENANT-COMMANDER E. E. WILSON, of the Bureau of Aeronautics of the Navy Department, Washington, D. C., has been awarded a prize of one hundred dollars by the American Society of Mechanical Engineers for his paper on "Power plants for U. S. Navy aircraft," printed in the October issue of *Mechanical Engineering*.

THE Baly medal of the Royal College of Physicians, given for distinguished work in physiology, chiefly during the past two years, was presented on October 19 to Professor R. Magnus, professor of pharmacognosy in the University of Utrecht.

AT the fifth Congress of Industrial Chemistry, organized by the French Society of Chemical Industry, and recently held in Paris, a Chevreul medal was awarded to Professor Henry E. Armstrong, and Sir Robert Hadfield was elected an honorary member of the society.

THE Philippine delegates to the sixth congress of the Far Eastern Association of Tropical Medicine at Tokio, Japan, October 12 to 31, were Major Arthur P. Hitchens, Army Research Board; Drs. I. Oto Schobl, Bureau of Science; Agerico B. M. Sison, of the College of Medicine, and Leoncio Lopez-Rizal and Cristobal Manalang, both of the Philippine Health Service.

DR. MARSTON TAYLOR BOGERT, professor of organic chemistry at Columbia University, has been appointed a member of the advisory board for the bureau of criminal science, Police Department, City of New York.

SCOTT TURNER, a mining engineer of Lansing, Mich., has been appointed director of the U. S. Bureau of Mines to succeed Dr. H. Foster Bain, who resigned after the recent transfer of the bureau from the Department of the Interior to the Commerce Department.

DR. W. E. BRITTON, Connecticut state entomologist, has been appointed to succeed the late Dr. Henry Hollier Robinson as superintendent of the Connecticut Geological and Natural History Survey and will carry on the work in connection with his duties as state entomologist.

PROFESSOR WALTER G. WHITMAN, assistant professor of chemical engineering and assistant director of the research laboratory of applied chemistry at the Massachusetts Institute of Technology, has resigned to join the development department in the research laboratory of the Standard Oil Company of Indiana.

DR. SOLON SHEDD, professor of geology at Washington State College, has been appointed curator of the Branner Geological Library at Stanford University.

DR. G. PHILIP GRABFIELD, instructor of pharmacology in the Harvard Medical School, has been appointed medical director of the Boston branch of the Life Extension Institute.

DR. J. L. MCELROY, director of St. Mark's Hospital, New York City, has been appointed head of the University of Iowa Hospital.

W. F. PATE, agronomist of the North Carolina Agricultural Experiment Station, has been appointed to the staff of the soil improvement committee of the National Fertilizer Association, and is in charge of an office of the committee, recently established at Raleigh, N. C. Professor Ward H. Sachs, who has been connected with the agronomy division of the University of Arkansas, has joined the Atlanta, Ga., branch.

S. K. ALLISON and G. S. Tunell, graduate students at Harvard University, and C. S. Piggot, formerly with the research laboratory of the U. S. Industrial Alcohol Co., have joined the staff of the Geophysical Laboratory, Carnegie Institution of Washington.

DR. W. W. COBLENTZ, of the United States Bureau of Standards, and Dr. H. T. Stetson, assistant professor of astronomy at Harvard University, are sailing from San Francisco on November 7 for Sumatra, where they are going for the purpose of making a study of the heat radiation of the solar corona during the total eclipse of the sun on January 14.

DR. E. M. CHAMOT, professor of sanitary chemistry at Cornell University, has returned from an extended mission abroad, where he represented a group of seven universities—including Harvard, Yale, Columbia, Massachusetts Institute of Technology, University of Pennsylvania, the Johns Hopkins and Cornell. Professor Chamot's mission in France was to foster cooperation between American and French universities, and to place before the students in that country the advantages to be gained from graduate study in the United States.

DR. G. E. HARMON, of the department of hygiene and bacteriology of the school of medicine of Western Reserve University, is spending his sabbatical year (1925-1926) in study with Professor Karl Pearson at the biometric laboratory, University College, London.

DR. S. PHILIP GOODHART, professor of clinical neurology at Columbia University, has gone abroad where he is showing his slow-motion moving-picture analysis of nervous diseases. He is giving lectures and exhibits in Vienna, Paris and London.

DR. WALLER S. LEATHERS, of the department of preventive medicine at Vanderbilt University, recently spent some months in Great Britain observing methods of health teaching and administration. Since his return, Dr. Leathers has been notified of his election as a fellow of the Society of Medical Officers of Health, which has been the representative body of the British Public Health Service since its foundation in 1856.

DR. C. D. MARX, emeritus professor of civil engineering at Stanford University, has gone to Germany for the purpose of representing Stanford University and the American Society of Engineers at the centenary of the Karlsruhe Polytechnic Institute of which he is a graduate. He expects to return to Palo Alto in November.

NEIL M. JUDD, curator of American archeology, United States National Museum, has returned to Washington following completion of his fifth season as director of the National Geographic Society's Pueblo Bonito Expedition. These explorations, pursued in northwestern New Mexico, have shed new light upon the prehistoric peoples of the southwestern United States. Most outstanding of the past season's accomplishments are the definite establishment of a pottery sequence for the unnumbered centuries during which Pueblo Bonito was inhabited and the partial exposure of a foundation series, underlying the eastern half of the great ruin and extending 500 feet beyond its outer wall.

DR. GEO. D. SHEPARDSON, head of the department of electrical engineering at the University of Minnesota, has been granted a sabbatical furlough for the year 1925-26, which will be spent largely in foreign travel. During his absence, Professor F. W. Springer will be acting head of the department.

DR. HOWARD M. ELSEY, associate professor of physical chemistry at the University of Kansas, has been granted a year's leave of absence for work in the research laboratories of the Westinghouse Electric Company at Pittsburgh. During his absence the major portion of his work at the University of Kansas has been taken over by Dr. Robert Taft.

PROFESSOR SIDNEY DEAN TOWNLEY, of the department of applied mathematics at Stanford University, has been granted a leave of absence and is working in the Stetson Astronomical Laboratory at Harvard University, where he is giving courses in astronomy.

DR. OSKAR VON MILLER, head of the Deutsches Museum of Munich, has been traveling through Mexico and arrived in the United States on October 28. Meetings in his honor have been planned for mid-November in both New York and Chicago.

AT the Massachusetts Institute of Technology, Dr. H. Muller, formerly an assistant to Professor Paul Debye, of Zurich, who lectured at the institute last year, has joined the staff of the department of physics as a special lecturer in physical chemistry. Beginning in November, Professor Max Born, of Göttingen, Germany, will lecture until the end of the first term. During the spring term, Professor Th. de Donder, of Brussels, will lecture on "The theory of relativity" and "The mathematical theory of electricity."

DR. GEORGE E. VINCENT, of the Rockefeller Foundation, will give the anniversary discourse on "The doctor and the changing order" at the seventy-ninth anniversary meeting of the New York Academy of Medicine on November 19.

PROFESSOR WALTER B. CANNON, of the Harvard Medical School, gave a lecture on October 16 under the auspices of the Sigma Xi Club at the University of Buffalo on "Some recent revelations by the denervated heart."

SAMUEL E. DIBBLE, president of the American Society of Heating and Ventilating Engineers and professor and head of the department of heating, ventilating and sanitation at the Carnegie Institute of Technology in Pittsburgh, was the speaker at a meeting of the Boston chapter of the society on October 27.

A MEETING in memory of Dr. Chas. F. Chandler, one of the founders of the American Chemical Society, in which all his friends will participate, will be held in Havemeyer Hall, Columbia University, on Monday evening, November 16, at 8:30 P. M. The principal speakers of the occasion will be the Honorable Elihu Root and Professor M. I. Pupin.

SIR CHARLES SHERRINGTON, president of the Royal Society, unveiled on October 19 the bronze memorial tablet to Sir Charles Wheatstone which has been placed in St. Michael's Church, Gloucester, by the city authorities. The ceremony marked the fiftieth anniversary of the death of Wheatstone, the pioneer of the electric telegraph.

DR. HENRY JACKSON WATERS, president of the Kansas State Agricultural College from 1909 to 1917 and known for his work on animal nutrition, died on October 26, aged sixty years.

DR. W. D. HUNTER, senior entomologist in charge of southern field crop insect investigations, U. S. Bu-

reau of Entomology, and a member of the Federal Horticultural Board, died on October 13.

DR. JUAN GUITERAS, professor of pathology and tropical medicine at Havana and formerly of the University of Pennsylvania, known for his work on yellow fever, died on October 28 at the age of seventy-three years.

DR. ANDREW GRAY, F.R.S., emeritus professor of natural philosophy in the University of Glasgow, died on October 10 at the age of seventy-eight years.

J. Y. BUCHANAN, F.R.S., chemist and physicist to the *Challenger* expedition and vice-president of the Conseil de Perfectionnement de l'Institut océanographique de Paris, died on October 16, aged eighty-one years.

DR. A. RICHAUD, professor of pharmacology at the University of Paris, has died, aged sixty years.

A CORRESPONDENT writes that Dr. Earle Jay Babcock, dean of the college of engineering of the University of North Dakota, whose death on September 3 has been announced in *SCIENCE*, was born June 11, 1865, at St. Charles, Minnesota, graduated from the University of Minnesota in 1889 and began work at once as a member of the faculty of the University of North Dakota. His department at first was chemistry and geology, which changed with the growth of the institution until now it is industrial chemistry, mining and metallurgy. Dr. Babcock was the first state geologist of North Dakota, from 1897 to 1902, and was acting-president of the university in 1917-18. His researches and investigations for the development of the natural resources of the state were in many different lines of chemistry and geology, but were particularly extensive in the study and research for methods of manufacture or use of natural cements, lignite coals and pottery clays.

THE forty-third annual meeting of the American Ornithologists' Union will be held in New York City from November 9 to 12. The sessions will be held in the American Museum of Natural History, 77th Street and Central Park West, and the headquarters will be at the Sherman Square Hotel, Broadway and 70th Street. Monday will be devoted to business meetings and at 8 P. M. there will be a business session for the election of officers and members. The three following days will be devoted to the presentation and discussion of scientific papers. In connection with the meetings there will be an exhibition of bird paintings at the museum, showing the work of American artists, and on Friday, following the regular sessions, an excursion to the New York Zoological Park, 185th Street and Southern Boulevard. The union now has a membership of about 1,700, including more than 100

foreign members distributed in various parts of the world.

THE following public lectures will be given on Saturday afternoons at 3:30 in the museum building of the New York Botanical Garden: November 7, "Beautiful gardens of New York State," Mrs. John W. Paris; November 14, "Seeds as carriers of disease," Dr. C. R. Orton; November 21, "Original exploration of the Yellowstone National Park," Professor John M. Coulter; November 28, "Botanical features of Ceylon," Dr. H. A. Gleason.

UNIVERSITY AND EDUCATIONAL NOTES

AN anonymous gift of \$75,000, to be used in annual divisions of \$15,000, for increasing the teaching staff in the departments of physics and of electrical engineering, has been received by the Massachusetts Institute of Technology.

THE trustees of Union College have voted to spend \$50,000 on enlarging the physics laboratory. Ludlow Melius, of New York, has given the college funds to erect a greenhouse for the department of botany.

ON October 21 the science building of the University of Richmond was completely destroyed by fire. All the apparatus and material used for laboratory work in physics, chemistry, biology and botany was lost. The biology and chemistry libraries were burned together with much irreplaceable material.

CAPTAIN RALPH EARLE was inaugurated sixth president of Worcester Polytechnic Institute on October 22. Rear Admiral William V. Pratt, U. S. N., was the principal speaker.

NEW appointments at Stanford University include those of Dr. Gilbert Morgan Smith, of the University of Wisconsin, to become professor of botany, and Dr. Charles Vincent Taylor, of the University of California, associate professor of biology.

DR. EMILE HOLMAN, associate professor of surgery in the school of medicine of Western Reserve University, has been appointed to the position of associate professor of surgery at Stanford University.

DR. W. J. M. SCOTT, instructor in surgery in the school of medicine of Western Reserve University, is leaving to take the position of assistant professor of surgery in the new Rochester University Medical School on January 1, 1926.

DR. MAXWELL J. DORSEY, head of the department of pomology at West Virginia University, has gone