

The opening general reception will be at the American Museum of Natural History on Thursday evening. After President Osborn has taken the chair, and brief addresses of welcome have been made by the mayor of the city and others, an address will be made by Professor Charles P. Berkey, of Columbia University, "On Recent Discoveries in the Geology of Mongolia." There will then be a general reception, the exhibition halls of the museum being open throughout the evening.

Other general sessions with receptions at the American Museum of Natural History will be held through the meeting. On Friday evening the Sigma Xi address will be given by Professor Arthur H. Compton, of the University of Chicago, on "What is Light?"; on Saturday evening an address by Professor William Morton Wheeler on "New Tendencies in Biologic Theory"; on Monday evening the address of the retiring president, Dr. A. A. Noyes, entitled, "The Story of the Elements"; on Tuesday evening an address by Dr. Harlow Shapley, of Harvard University, on "Galaxies of Galaxies."

The trustees of the Metropolitan Museum of Art will give a reception on Sunday evening; the New York Philharmonic Symphony Society will give a complimentary concert on Sunday afternoon; on Sunday excursions are planned to the scientific institutions of the city.

Among general addresses are the sixth annual Josiah Willard Gibbs lecture on Friday afternoon by Professor G. H. Hardy, of the University of Oxford, entitled "An Introduction to the Theory of Numbers." On the same afternoon there will be a showing of the Canti films depicting the growth of cells, by Professor C. A. Kofoed, of the University of California. On Saturday afternoon an address will be given by Professor Franz Boas, of Columbia University, on "Migrations of Asiatic Races and Cultures to North America," and there will be a showing of American Museum films, and a symposium on "Salary Adequacy of Academic Families" under the Committee of One Hundred on Scientific Research. On Tuesday afternoon there will be an address by Professor H. H. Turner, of Oxford University, special representative of the British Association.

The first of the special addresses of the meeting will be on Wednesday evening, the presidential address of Professor Bailey Willis, of Stanford University, before the Geological Society of America, on "The Origin and Growth of Continents." During the week each society will hold not only special programs for its members, but in nearly all cases will also provide addresses and symposia of general interest. Many joint meetings of the sections of the association with one another and with the special societies and of the special societies with one another have been arranged.

Dinners, luncheons and smokers will be held by the special societies and by groups throughout the week.

SCIENTIFIC NOTES AND NEWS

A MEMORIAL meeting in honor of Dr. Hideyo Noguchi was held at the Academy of Medicine, New

York City, on the afternoon of December 20. President George E. Vincent, the Rockefeller Foundation, was expected to preside. The speakers announced were: Dr. William H. Welch, the Johns Hopkins University; Dr. Theobald Smith, the Rockefeller Institute, Princeton, N. J.; the Honorable Setsuzo Sawada, Japanese Embassy, and Dr. Simon Flexner, the Rockefeller Institute.

DR. A. D. COLE, professor of physics at the Ohio State University since 1901 and chairman of the department since 1908, died on December 1 at the age of sixty-seven years.

DR. C. S. HUDSON is the recipient of the Willard Gibbs medal of the Chicago Section of the American Chemical Society for the year 1929. Dr. Hudson has been since November 1 professor of chemistry and chief of the division of chemistry of the hygienic laboratory of the U. S. Public Health Service. Previous to that time he was associated with the U. S. Geological Survey, with the Department of Agriculture and for many years with the Bureau of Standards. His fundamental work on the structure of carbohydrates is the basis of the award. The medallist is selected by a jury consisting of chemists from all parts of the United States. Previous recipients have been Svante Arrhenius, of Sweden; Madame Curie, of France, and Sir James C. Irvine, of England. The American medallists have been T. W. Richards, L. H. Baekeland, Ira Remsen, A. A. Noyes, Willis R. Whitney, E. W. Morley, W. M. Burton, W. A. Noyes, F. G. Cottrell, Julius Stieglitz, G. N. Lewis, M. Gomberg, J. J. Abel and W. D. Harkins.

DR. E. C. SULLIVAN, president of the Corning Glass Works, has been awarded the Perkin Medal for distinguished service in applied chemistry, particularly in the development of new types of glassware. The award is made by the Perkin Medal Committee composed of representatives of the American Chemical Society, the American Institute of Chemical Engineers, the Society of Chemical Industry and the American Electrochemical Society.

A WALZ prize in astronomy of the Paris Academy of Sciences has been awarded to Dr. George Van Biesbroeck, of the department of astronomy in the University of Chicago, and to Professor William H. Wright, of the Lick Observatory.

THE third award of the William Wood Gerhard Gold Medal of the Philadelphia Pathological Society was made on December 13 to Dr. F. d'Herelle, who spoke on the "Bacteriophage."

ANNOUNCEMENT of the Chilean Nitrate of Soda Research Awards for Nitrogen investigation was made at the annual banquet of the American Society of

Agronomy. The recipients are Jacob G. Lipman, dean of agriculture at Rutgers University and director of the New Jersey Agricultural Experiment Station; T. L. Lyon, professor of soil technology, Cornell University; Edwin Broun Fred, professor of agricultural bacteriology, University of Wisconsin, and Frank Thomas Shutt, Dominion chemist of Canada. They are the first to share in an annual fund of \$5,000 which the Chilean Nitrate of Soda Educational Bureau made available a year ago.

DR. SAMUEL J. HOLMES, professor of zoology, has been named faculty research lecturer for 1929 at the University of California. The faculty research lecturer is selected each year by a faculty committee from among those who have contributed most to science. The committee making the selection is composed of those faculty members who previously have been chosen for this honor.

DR. HERMANN DIEDERICH, John E. Sweet memorial professor of engineering at Cornell University, has been elected a faculty representative on the board of trustees.

THE General Board of Cambridge University has, on the recommendation of the faculty board of mathematics, conferred the title of Cayley lecturer in mathematics upon A. S. Besicovitch, M.A.

DR. ALI IBRAHIM BEY, professor of surgery in the Egyptian University, has been made an honorary fellow of the Royal College of Surgeons, London.

THE national nominating committee of the American Institute of Electrical Engineers has nominated the following for the offices falling vacant August 1, 1929: *President*, Harold B. Smith, professor of electrical engineering, Worcester Polytechnic Institute; *vice-presidents*, Middle Eastern District—E. C. Stone, Duquesne Light Company, Pittsburgh, Pennsylvania; Southern District—W. S. Rodman, professor of electrical engineering, University of Virginia; North Central District—Herbert S. Evans, dean of the college of engineering, University of Colorado; Pacific District—C. E. Fleager, Pacific Telephone and Telegraph Company, San Francisco; Canadian District—C. E. Sisson, Canadian General Electric Company, Ltd., Toronto.

AT the recent meeting of the American Society of Agronomy held in Washington, D. C., the following officers were elected for the ensuing year: *President*, Dean M. J. Funchess, Alabama Polytechnic Institute; *first vice-president*, Professor Clyde McKee, University of Montana; *second vice-president*, Dean W. W. Burr, University of Nebraska; *third vice-president*, Dr. A. B. Beaumont, Massachusetts Agricultural Col-

lege; *fourth vice-president*, Dr. S. A. Waksman, Agricultural Experiment Station, New Brunswick, New Jersey; *editor*, Professor James D. Luckett, Agricultural Experiment Station, Geneva, New York; *secretary-treasurer*, Dr. P. E. Brown, Iowa State College.

THE newly elected officers of the Rush Society of the University of Pennsylvania are E. B. Krumbhaar, *president*; A. N. Richards, *vice-president*; E. S. Thorpe, Jr., *secretary and treasurer*.

DR. J. A. L. WADDELL, of New York, has been retained by the nationalist government of China to act as consulting engineer to its department of railways. He will leave San Francisco on January 4.

CARL O. JOHNS, director of research of the Standard Oil Development Company, with headquarters in New Jersey, has been transferred to the New York office, where he will be in more general touch with the entire research program of the company and will act as vice-chairman of the technical committee.

HAYWOOD M. TAYLOR, chemist for the Fisk Rubber Company, has accepted a position as head of the department of chemistry in the Wilmer Ophthalmological Institute of the Medical School of the Johns Hopkins University.

DR. FRITZ STRIECK, of Professor Grafe's medical clinic in the University of Würzburg, through arrangements with the Notgemeinschaft der Deutschen Wissenschaft and the Rockefeller Foundation, is spending several months at the nutrition laboratory of the Carnegie Institution of Washington in Boston.

S. PLAKIDIS, of the National Observatory, Athens, is spending a year in astronomical study in England. He has spent some months at the Greenwich Observatory and is now assisting in the office of the Nautical Almanac.

RONALD GURNEY, of the Palmer Laboratory of Physics of Princeton University, leaves at the end of this month for Japan, where he has been offered a Japanese research fellowship at the Research Institute of Physics and Chemistry in Tokyo.

EDWARD GUDEMAN, Chicago, has gone to Japan, after which he will make an investigation of the oil and rubber industries in India, spending a month in each of these countries.

L. B. SMITH, of the Gray Herbarium of Harvard University, is devoting five or six months to a field study of the family Bromeliaceae in southern Brazil.

DR. LAFAYETTE B. MENDEL, professor of physiological chemistry in Yale University, addressed the Detroit section of the American Chemical Society on December 12 on "Some Chemical Aspects of Nutri-

tion," and the First District Dental Society of Michigan on December 13, at Detroit, on "Growth and Nutrition." Dr. Mendel also spoke at the Merrill-Palmer School in the same city.

ULICK R. EVANS, of the University of Cambridge, England, will deliver the annual lecture of the institute of metals division of the American Institute of Mining and Metallurgical Engineers during the week of February 18, 1929, in connection with the annual meeting of the institute. Mr. Evans will lecture on corrosion and will preside at the symposium. Following the annual lecture he will deliver groups of lectures in such centers as New Haven, Cambridge, Cleveland, Pittsburgh and Washington, with single lectures at various other points.

PROFESSOR G. H. HARDY, of the University of Oxford, will give a lecture on "Hilbert's Mathematical Logic" at a meeting of the Lehigh Chapter of Sigma Xi on January 8.

DR. LEVADITI, professor of microbiology in the Pasteur Institute, Paris, addressed the students of the University of Pennsylvania Medical School on December 12 on "Neurotropic Ectodermoses."

THE subjects of the lectures of Dr. F. M. Jaeger, of the University of Groningen, Holland, non-resident lecturer at Cornell University during the second half of the academic year, will be "Symmetry and Optical Activity of Atomic Configurations" and "Methods, Results and Problems in High-Temperature Precision Measurements."

WORD has been received by the California Academy of Sciences of the sudden death from angina of W. W. Sargeant on December 4 in Paris. Mr. Sargeant was the secretary of the board of trustees of the California Academy of Sciences from 1913 to 1927, and also of the Pacific Division of the American Association for the Advancement of Science from 1918 to 1927, when he resigned to live in Paris.

THE deaths are announced of Dr. Ernst Wagner, professor of physics at the University of Würzburg, and Dr. Ludwig Klein, professor of botany at Karlsruhe.

THE thirteenth annual meeting of the Pacific Division of the American Association for the Advancement of Science will be held at the University of California at Berkeley, from Wednesday to Saturday, June 19 to 22, 1929. Following is a partial list of scientific societies which are likely to participate in the sessions: The American Mathematical Society, the American Physical Society, the American Meteorological Society, the American Chemical Society, the Astronomical

Society of the Pacific, the American Association of Economic Entomologists, the Ecological Society of America, the Western Society of Naturalists, the Society for Experimental Biology and Medicine, the American Phytopathological Society, the Botanical Society of America and the Western Society of Soil Science. It is hoped that a considerable number of scientists living outside the territory of the Pacific Division will find it possible to attend. The printed announcement of the meeting will be distributed late in March to all members of the Pacific Division. Any other member of the American Association for the Advancement of Science may receive a copy of the announcement by sending a request to the secretary, A. G. Vestal, Stanford University, California.

THOMAS A. EDISON spoke on December 15 by radio from his Menlo Park laboratory, formally dedicating a tablet marking the shops which he first occupied in Schenectady, forty-two years ago. These shops have since witnessed the growth of a vast manufacturing plant of 350 buildings on a 650-acre plot, the present Schenectady works of the General Electric Company. Mr. Edison was introduced by Mr. Edwin W. Rice, Jr., honorary chairman of the board of directors of the General Electric Company. Mr. Edison's assistant, William H. Meadowcroft, spoke at the exercises. The tablet, which was unveiled by Mr. George F. Morrison, vice-president of the General Electric Company, himself an Edison pioneer, reads: "In this building, and in the building at the right, Thomas A. Edison established the Edison Machine Works in the year 1886. From this small beginning grew the Schenectady works of the General Electric Company. This tablet erected in 1928."

RADIO advices from the non-magnetic yacht *Carnegie*, which left Balboa, Canal Zone, October 25, for the first passage in the Pacific of her Cruise VII, state she arrived at Easter Island December 6, four days ahead of her schedule, with all well on board and after a fine trip with ideal weather conditions and no storms. The observational work during the passage from Balboa to Easter Island included 58 magnetic stations, 10 ocean and tow-net stations, 70 sonic depth-determinations, 24 pilot-balloon flights, 6 evaporation series, 23 biological stations, 25 days of photographic records of atmospheric-electric potential-gradient, and four 24-hour runs of other atmospheric-electric elements. Because of a slight leak which developed in the depth-finder oscillator (mounted on the keel of the vessel), echoes for soundings have been obtained through firing of a shotgun at the end of a pipe extending 20 feet below the surface; the results with this emergency arrangement have checked out well with depths determined by wire and pressure.

Captain Ault expects to leave about December 14 for Callao, Peru, where the vessel is due early in January.

IN cooperation with the Tropical Plant Research Foundation, the Charles Lathrop Pack Forestry Trust has undertaken a three-year field survey of Latin-America. This survey has two aims, to learn by exploration the extent of tropical America's commercial forest area and to learn by laboratory and factory test the purposes for which the most abundant woods are best fitted. For the next two years the survey will devote itself to the forests of Central America and southern Mexico. The last year will be devoted to the greatest storehouse of all tropical timber—the valley of the Amazon. If time permits, explorations will be extended to that little known country, the western coast of South America.

ACCORDING to press reports, Dr. J. Tozzi Calvao, of Brazil, has abandoned his plans to explore the jungles of the Aripuna River, having failed to secure financial support from the Brazilian government. Tentative arrangements had been made to turn the expedition over to Dr. Norman Taylor, of the Brooklyn Botanic Garden, who had joined the expedition as botanist, but Dr. Calvao later refused to release the equipment which he had gathered for the trip.

THE faculty of medicine of Harvard University offers the regular course of free public lectures on medical subjects, Sunday afternoons, beginning on January 6 and ending April 14. The lectures will begin at four and the doors will be closed at five minutes past the hour. No tickets are required.

Jan. 6—Bishop Lawrence, "Social Infection and the Community."

Jan. 13—Dr. C. E. Turer, "The School Health Program."

Jan. 20—Dr. J. P. O'Hare, "Chronic Bright's Disease and High Blood Pressure."

Jan. 27—Dr. W. B. Cannon, "Natural Defenses of the Body."

Feb. 3—Dr. John Homans, "Varicose Veins and Varicose Ulcers."

Feb. 10—Dr. E. A. Locke, "Pulmonary Tuberculosis."

Feb. 17—Dr. W. L. Aycock, "Infantile Paralysis."

Feb. 24—Dr. Shields Warren, "Cancer and New Growths."

Mar. 3—Dr. L. W. Baker, "The Deformed Mouth of a Child: Its Effect on the Child's Future."

Mar. 10—Dr. Reginald Fitz, "Health Problems of the Modern Boy and Girl."

Mar. 17—Dr. Marshall Hertig, "The Warfare between Man and Insects."

Mar. 24—Dr. W. H. Robey, "Old Age."

Mar. 31—Dr. F. W. Palfrey, "Diagnosis: Or Determining What is the Matter."

Apr. 7—Dr. Soma Weiss, "Drug Addiction and Its Consequences."

Apr. 14—Dr. C. G. Lane, "Skin Diseases of Occupational Origin."

UNIVERSITY AND EDUCATIONAL NOTES

JULIUS ROSENWALD has given to the University of Chicago the sum of \$1,200,000 for the building of dormitories. This gift will be increased to \$2,000,000 if the university can raise an additional \$3,000,000. The plans call for the erection of dormitories for 400 men and 380 women on unoccupied university ground.

A CHAIR of agriculture, endowed in the sum of \$125,000, has been provided for the University of California by the will of the late Jessie D. Carr Seale. The will also bequeaths \$40,000 for the endowment of five scholarships in the university. The chair is to be known as the Jesse D. Carr agricultural chair, as a memorial to Jesse D. Carr, of Salinas, the father of Mrs. Seale. In addition, whatever residue remains in the estate after the other bequests are cared for will go to the chair's endowment.

A GIFT of \$250,000 toward the endowment fund of \$2,000,000 has been made by Edward S. Harkness, of New York City, to the Albany Medical College.

THE research laboratory of the Cleveland Clinic, a building eight stories high, founded by Dr. George W. Crile on his retirement as head of the department of surgery of Western Reserve University, was dedicated on December 15.

CHARLES HAROLD BERRY has been appointed professor of mechanical engineering at Harvard University to succeed Professor Harvey N. Davis, who has resigned and accepted the presidency of Stevens Institute.

AT Columbia University, Dr. Hans T. Clarke, of the Eastman Kodak Company, has been appointed professor of biological chemistry; Arthur W. Hixon has been promoted to a professorship of chemical engineering; Dr. Goodwin L. Foster, of the University of California, has been appointed associate professor of biological chemistry, and Edmund W. Sinnott, of the Connecticut Agriculture College, professor of botany. Harold Clayton Urey was approved as associate professor of chemistry; Edward Settle Godfrey will be clinical professor of epidemiology. The resignation of J. Clayton Sharp, associate professor of anatomy and histology, will take place next June. Harold M. Terrill, associate in physics, received an extension of his leave of absence.

AT the University of Texas, Mr. F. B. Plummer has accepted appointment as geologist in the Bureau of Economic Geology. Dr. J. T. Lonsdale, formerly geologist, has resigned to become professor of geology and head of the department in the Texas Agricultural and Mechanical College. He retains, however, connec-