NOTES

The American Association for the Advancement of Science will hold its first Summer Meeting at the California Institute of Technology, in Pasadena, on June 15–20, 1931. Section A (Mathematics) of the Association will meet on Tuesday, June 16; at that time the following addresses will be delivered by invitation of the program committee of the Section: *On certain Diophantine problems of approximation*, by Professor D. R. Curtiss; *Topics in potential theory*, by Professor O. D. Kellogg; *On integration in finite form*, by Professor J. V. Uspensky. The complete program of the entire meeting will appear in Science early in May.

The centenary of the birth of James Clerk Maxwell is to be celebrated at the University of Cambridge on October 1–2, 1931, following the Faraday celebration and the centenary meeting of the British Association for the Advancement of Science in London. Addresses will be given at Cambridge by Professors Einstein, Langevin, Larmor, Planck, Sir James Jeans, and Sir J. J. Thomson.

Cambridge University has awarded Smith's prizes to Mr. H. S. M. Coxeter, of Trinity College, and Mr. H. R. Hulme, of Gonville and Caius College, and Rayleigh prizes to Mr. H. Davenport, of Trinity College, Mr. B. Kuttner, of Christ's College, and Mr. J. C. P. Miller, of Trinity College.

The Royal Society of Arts offers a prize from the Thomas Gray Memorial Trust for the Improvement and Encouragement of Navigation for an essay on the stability of ships. Competition closes December 31, 1931.

On the occasion of its 150th anniversary celebration on March 17, 1931, the Manchester Literary and Philosophical Society presented its Dalton Medal to Sir J. J. Thomson.

The Echegaray medal of the Royal Academy of Sciences of Madrid has been awarded to Lord Rutherford.

The Franklin Institute, Philadelphia, has awarded a Franklin medal to Sir James Jeans, "in recognition of his many fruitful contributions to mathematical physics, especially in the realms of the dynamical theory of gases and the theory of radiation, and of his challenging explanations of astronomical problems and his illuminating expositions of modern scientific ideas."

The Astronomical Society of the Pacific has awarded its Bruce gold medal "for distinguished services to astronomy" to Dr. Willem de Sitter, director of the Observatory at Leiden.

Professor Elie Cartan has been elected a member of the Paris Academy of Sciences, as successor to the late Paul Appell.

E. Fabry has been elected a correspondent of the Paris Academy of Sciences in the section of geometry.

The following, among others, have been elected fellows of the Royal Society of Edinburgh: Dr. T. P. Black, head of the mathematics department of Trinity Academy, Leith; N. M. H. Lightfoot, lecturer in mathematics at Heriot-Watt College, Edinburgh; Dr. W. H. McCrea, lecturer in mathematics at the University of Edinburgh; Mr. H. S. Ruse, lecturer in mathematics, University of Edinburgh; Dr. J. Wishart, statistician, Rothampstead Experimental Station.

Sir William Bragg has been elected an honorary member of the British Institution of Electrical Engineers.

Professor E. C. Titchmarsh, of the University of Liverpool, has been recommended for election to the Royal Society of London.

Professor George David Birkhoff, of Harvard University, will give a series of lectures on *Le dernier théoreme de géométrie de Poincaré, ses généralisations, et ses applications à la dynamique*, at the Collège de France, during the last two weeks of April, under the Fondation Michonis.

A bust of Carl Friedrich Gauss, the distinguished mathematician, has been placed in the Massachusetts Institute of Technology, in memory of his great-grandson, Carl Friedrich Gauss, an alumnus of the Institute in the class of 1900. The bust, originally sent by the German government to the Chicago World's Fair in 1893, was recently presented to the Institute by the mother, sister, and brother of the late Mr. Gauss.

Professor E. B. Stouffer has been elected a member of the section committee of Section A of the American Association for the Advancement of Science.

Among those recently awarded Guggenheim fellowships are the following: Associate Professor E. D. Eastman, of the University of California, for studies in non-isothermal systems of ionic entropies and of electrons in metals; Professor Genaro Moreno Garcia-Conde, of the School of Military Engineering of Chile, for mathematical research, especially in the theory of functions of real variables; Professor J. R. Nielsen, of the University of Oklahoma, for theoretical and experimental studies of Raman spectra and molecular structure; Augusto Novaro, musicologist of Mexico City, for studies in the mathematical and physical theory of music and musical composition, and for research in the design and construction of new types of musical instruments; Associate Professor T. E. Phipps, of the University of Illinois, for studies of problems in the field of molecular rays; Associate Professor George Scatchard, of the Massachusetts Institute of Technology, for studies in the theory of liquid solutions.

Professor G. Doetsch, of the Stuttgart Technical School, has been appointed professor of mathematics at the University of Freiburg.

Dr. H. Jeffreys, of St. John's College, Cambridge, has been appointed to a readership in the faculty of mathematics of the University of Cambridge.

Dr. J. Wishart has been appointed university lecturer in statistics at the University of Cambridge.

Mr. G. U. Yule, of St. John's College, Cambridge, has been appointed reader in statistics.

The following doctorates in mathematics were conferred by American universities during 1930, in addition to those listed in the March number of this Bulletin:

C. M. Cleveland, Texas, June, minor in physics, *On the existence of acyclic continuous curves satisfying certain conditions with respect to a given continuous curve.*

J. B. Coleman, California, May, *Concerning the irreducibility of the characteristic equation of a ternary continued fraction.*

J. L. Dorroh, Texas, June, minor in physics, *Some metrical properties of descriptive planes.*

R. N. Haskell, Rice, June, minor in mathematical physics, *The mixed boundary value problem for Laplace's equation, in the plane.*

Professor Richard Courant, of Göttingen, will lecture at the University of California during the summer of 1932.

Professor R. H. Fowler, of Trinity College, Cambridge, will give a series of lectures on *Some recent developments in theoretical physics*, at the University of Wisconsin during April and May, 1931.

Dr. W. Heitler, of Göttingen, will be in residence at Ohio State University as visiting professor of theoretical physics.

Dr. A. A. Albert, of Columbia University, has been appointed assistant professor of mathematics at the University of Chicago.

Dr. Albert Eldred Currier and Dr. John Jay Gergen have been appointed Benjamin Peirce Instructors at Harvard University for the coming academic year.

Associate Professor George W. Hess, of Howard College, has been promoted to a professorship of mathematics.

Associate Professor Harold Hotelling, of Stanford University, has been appointed professor of economics at Columbia University.

Associate Professor R. B. Lindsay, of Brown University, has been appointed visiting professor of theoretical physics at the Polytechnic Institute of Brooklyn for the second semester of 1931–32.

Professor David Vernon Widder, of Bryn Mawr College, has been appointed assistant professor of mathematics at Harvard University.

The following appointments to instructorships in mathematics are announced:

Columbia University, Mr. E. R. Lorch;

Harvard University, Douglas Payne Adams, Allen Emil Anderson, James Sutherland Frame, Alan Stuart Galbraith, Lester Turner Moston, Sumner Byron Myers, Griffith Baley Price, Frederick Henry Steen, George Booth Van Schaack.

Mr. J. D. H. Dickson, senior fellow of Peterhouse, and author of numerous papers on thermodynamics and thermoelectricity, died February 6, 1931 at the age of eighty-one.

Mr. James Hammond, secretary to Sylvester during his professorship at Oxford, and known for his work in algebra, died August 29, 1930, at the age of eighty.

Dr. W. E. Johnson, lecturer in moral philosophy at Cambridge, and known for his work in logic, died January 14, 1931. at the age of seventy-two.

Mr. R. G. Lunnon, of Armstrong College, Newcastle, died January 25, 1931.

Professor Domenico Montesano, of the University of Naples, died October 1, 1930, at the age of sixty-seven.

Professor William Cain, of the University of North Carolina, is dead.

Dean H. L. Hodgkins, of George Washington University, is dead.

Dr. George Daniel Olds, President Emeritus of Amherst College and formerly professor of mathematics there, died on May 11, 1931, at the age of seventy-seven years. He had been a member of this Society since 1891.

Captain Henry Martin Paul, professor of mathematics in the United States Navy from 1897 to 1913, died March 15, 1931, at the age of eighty.