

NOTES

A portion of the library of Oliver Heaviside, who died in 1925, is now on exhibition at the Massachusetts Institute of Technology. The collection includes a number of autograph letters and other memorabilia gathered by the late Dr. B. A. Behrend. It will shortly be sent to England to be preserved in the library of the Institution of Electrical Engineers.

The Princeton University Press will publish sometime during the early summer a book by Dean L. P. Eisenhart on *Continuous Groups*.

A translation of Enriques' *Lezioni di Geometria Proiettiva* has been made by Professor H. R. Phalen, and published by him, reproduced by a duplicating process in a limited edition. Orders should be sent to Professor Phalen at St. Stephen's College, Annandale-on-Hudson, N. Y.; the price is \$3.75.

The Royal Academy of Bologna announces the following subjects for its Adolfo Merlani prize in mathematics, for which competition closes December 31, 1934: (1) *A contribution to the study of the roots of the integrals of linear differential equations (in the real domain)*; (2) *A contribution to some question in the mechanics of fluids, preferably in aerodynamics*. Competing memoirs must be written in Italian, and may be in manuscript or already in print.

The Physico-Mathematical Society of Kazan announces that the seventh award of its Lobatchefski prize will be made on February 26, 1934. Competition closed February 1, 1933.

Cambridge University announces the following awards: Smith's prizes to E. A. Maxwell, of Queen's College, for an essay entitled *The invariants of certain surfaces*, and to R. H. Stoy, of Gonville and Caius College, for an essay entitled *The planetary nebulae*; Rayleigh prizes to W. E. Candler, of Trinity College, for an essay entitled *The stability of the rings of Saturn*, to C. Strachan, of Corpus Christi College, for an essay entitled *Reflection by monomolecular films*, and to M. H. H. Walters, of King's College, for an essay entitled *The effect of stellar encounters on the orbits of binary stars*. The following subject is announced for the Adams prize for the period 1933-34: *The mathematical representation of unsteady flow in fluids*. Competition for this prize is open to all persons who have at any time been admitted to a degree in Cambridge University.

Sir Richard Glazebrook, formerly chairman of the Aeronautical Research Committee, has been awarded the gold medal of the Royal Aeronautical Society.

The Royal Society of Edinburgh has awarded its Makdougall-Brisbane prize for 1930-32 to Dr. A. C. Aitken, of the University of Edinburgh, for various contributions to mathematics published in the Proceedings of that Society.

Dr. Sydney Chapman, chief professor of mathematics at the Imperial College, South Kensington, has been elected president for 1933 of the Royal Meteorological Society.

Dr. William Bowie, chief of the division of geodesy of the United States Coast and Geodetic Survey, has been reelected honorary president of the Pan American Institute of Geography and History.

Dr. C. F. Roos, formerly permanent secretary of the American Association for the Advancement of Science, has been awarded a Guggenheim fellowship to aid in writing a book on dynamical economics in consultation with European scholars.

Announcement of the establishment of the Elihu Thomson professorship of electrical engineering at the Massachusetts Institute of Technology was made on March 29 by President K. T. Compton, at the dinner given at the Institute in honor of Professor Thomson's eightieth birthday.

The Council of the Royal Society of London has recommended Professor J. H. M. Wedderburn, of Princeton University, for membership in that Society.

Professor Albert Einstein has resigned his membership in the Prussian Academy of Sciences. He has accepted professorial appointments at the Universities of Madrid and Paris, in addition to his professorship at the Institute for Advanced Study, Princeton.

Dr. Gerhard Haenzel has been appointed professor of geometry at the Karlsruhe Technical School.

Professor J. Proudman, of the University of Liverpool, has been transferred from the professorship of applied mathematics to that of oceanography.

Professors Lipót Fejér and Tullio Levi-Civita will arrive in this country several weeks before the Society's meeting at Chicago in June, at which they are both to lecture. Professor Fejér will lecture during April and May at Brown University, Harvard, Columbia, Princeton, the University of Pennsylvania, Cornell, and the University of Cincinnati, and before a sectional meeting of the Mathematical Association of America at the University of Virginia; his topics will be *On new properties of the arithmetical means of the partial sums of Fourier series*, and *On the characterization of some remarkable systems of points of interpolation by means of conjugate points, of the Coles' numbers, and of certain extremal properties*. His lecture at the Chicago meeting will be *On the infinite sequences arising in the theories of harmonic analysis, of interpolation, and of mechanical quadratures*. Professor Levi-Civita will lecture at Princeton, Harvard, and Brown during the last week in May and the first week in June, on *Secular effects of tides on the motion of a planetary system* and on *Adiabatic invariants*. His lectures at Chicago will be *On some mathematical aspects of the new mechanics* and *Nets on a surface and extension of trigonometry*.

Professor T. C. Esty, of the department of mathematics at Amherst College, has been made vice-president of the College.

Professor R. H. Fowler will be in residence at the University of California for the second semester of the present academic year.

Associate Professor W. C. Graustein, of Harvard University, has been promoted to a professorship of mathematics.

Associate Professor Einar Hille, of Princeton University, has been appointed professor of mathematics at Yale University.

Associate Professor M. H. Stone, of Yale University, has been appointed associate professor of mathematics at Harvard University.

The following appointment to an instructorship in mathematics is announced:

Cornell University, Dr. A. H. Black.

Jules Andrade, correspondent of the Paris Academy of Sciences in the section of mechanics, known for his work in chronometry, died February 25, 1933, at the age of seventy-five.

Dr. Felix Auerbach, professor of theoretical physics at the University of Jena, and his wife committed suicide on March 1, 1933. Professor Auerbach was seventy-seven years old.

Professor Eugenio Bertini, of the University of Pisa, died February 23, 1933, at the age of eighty-six.

Professor Alfred Haar, of the department of mathematics at the University of Szeged, Hungary, died March 16, 1933, at the age of forty-eight.

The death is announced of Professor C. Köhler, of the University of Heidelberg, at the age of fifty-three.

Joseph Kürschák, professor of mathematics in the Polytechnical Institute of Budapest, died in March, 1933, at the age of sixty-nine.

Professor Augustin Mesnager, of the Paris Ecole des Ponts et Chaussées and Conservatoire des Arts et Métiers, member of the Paris Academy of Sciences in the section of mechanics, died recently.

Enrico D'Ovidio, professor emeritus of mathematics at the University of Turin, died March 21, 1933.

Dr. Karl Rodenberg, professor of descriptive geometry at the Hannover Technical School, is dead.

The death is announced of Professor D. Seliwanoff, of the University of Prague, at the age of seventy-seven.

Professor Magnus de Sparre, of the Catholic University of Lyons, correspondent of the Paris Academy of Sciences in the section of mechanics, has died at the age of eighty-three.

Dr. F. Gomes Teixeira, of the Academy of Sciences of Coimbra, died at Oporto at the age of eighty-two.

Dr. E. W. Hobson, emeritus professor of pure mathematics at Cambridge University, died April 18, 1933, at the age of seventy-six.

Dr. R. E. A. C. Paley, the distinguished young English mathematician, International Research Fellow at the Massachusetts Institute of Technology, was killed by an avalanche while skiing near Banff, Alberta, on April 7, 1933, at the age of twenty-five.

L. M. Defoe, professor emeritus of mechanics at the University of Missouri, died April 3, 1933, at the age of seventy-two. Professor Defoe had been a member of the American Mathematical Society since 1900.

Professor F. B. Williams, of Clark University, died March 7, 1933. Professor Williams had been a member of the American Mathematical Society since 1914.