

NOTES

The opening number of volume 47 of the *AMERICAN JOURNAL OF MATHEMATICS* (January, 1925) contains the following papers: *L'expression la plus générale de la "distance" sur une droite*, by Maurice Fréchet; *Second paper on tensor analysis*, by G. Y. Rainich; *Generalization of certain theorems of Bohl*, by F. H. Murray; *Expansion problems in connection with the hypergeometric differential equation*, by B. P. Reinsch.

The third number of volume 25, series 2, of the *ANNALS OF MATHEMATICS* (March, 1924) contains: *On the method of least m th powers for a set of simultaneous equations*, by Dunham Jackson; *The derivative of the general integral*, by P. J. Daniell; *On a class of transformations in function space*, by I. A. Barnett; *Congruences of circles studied with reference to the surface of centers*, by J. M. Thomas; *On Neumann's existence proof*, by W. F. Osgood; *On the automorphic functions of the group $(0, 3; 2, 4, 6)$* , by H. H. Dalaker; *Note on Dirichlet's series with complex exponents*, by Einar Hille; *On the types of monoidal involutions*, by Virgil Snyder; *An inequality for the roots of an algebraic equation*, by J. L. Walsh. The fourth number (June, 1924) contains: *Differential equations from the group standpoint*, by L. E. Dickson.

At the annual meeting of the Mathematical Association of America in Washington, the following officers were elected: Professor J. L. Coolidge, president; Professors A. A. Bennett and Dunham Jackson, vice-presidents; Professors R. C. Archibald, L. P. Eisenhart, E. V. Huntington, and H. L. Rietz, members of the Board of Trustees.

Among the officers of the American Association for the Advancement of Science elected at the Annual Meeting of 1924, held at Washington, are the following: President, Professor M. I. Pupin, of Columbia University; vice-president, Section A (mathematics), Professor W. H. Roever, of Washington University; secretary, Section A, Professor R. C. Archibald; member of the executive committee, Professor E. B. Wilson, Harvard School of Public Health. Professors Arnold Dresden and E. B. Stouffer have been appointed representatives of the American Mathematical Society on the Council of the Association for 1925. The next Annual Meeting will be held at Kansas City.

The following have been elected officers of the London Mathematical Society: President, A. L. Dixon; vice-presidents, L. N. G. Filon, H. Hilton, and W. H. Young; treasurer, A. E. Western; secretaries, G. H. Hardy and G. N. Watson.

The next meeting of the International Research Council will be held at Brussels, beginning July 7, 1925. The International Physics Union will also meet in Brussels in July. The International Astronomical Union will meet at Cambridge, England, July 14-22.

A journal devoted largely to mathematics has recently been founded at Kief, the BULLETIN DE LA CLASSE DES SCIENCES PHYSIQUES ET MATHÉMATIQUES DE L'ACADÉMIE DES SCIENCES DE L'OUKRAINE; Professor N. M. Kryloff is editor. The Academy, which was founded in November, 1918, has also begun publication of its MÉMOIRES, CLASSE DES SCIENCES.

The Hungarian Francis-Joseph University of Szeged (formerly in Kolozsvár, Transylvania) has recently founded a periodical of general character, the ACTA LITERARUM AC SCIENTIARUM, which publishes articles in English, French, and German. In the first volume, the section devoted to mathematics contains articles by F. Riesz, Kürschák, Fejér, Haar, M. Riesz, Kerékjártó, and others. This section will form annually a volume of about 250 pages, containing original articles and also some notes on bibliography. The subscription price is three dollars per volume. Subscriptions should be sent to the Editor, Professor F. Riesz, Dugonicster 13, Szeged, Hungary.

A new series of monographs on mathematical topics has been established, under the patronage of the Société Mathématique de France and of the scientific academies of Paris, Serbia, Belgium, Bucarest, Poland, Ukraine, Spain, Prague, Rome (dei Lincei), and Sweden, and will be known as MÉMORIAL DES SCIENCES MATHÉMATIQUES. It will be issued by the firm of Gauthier-Villars, under the general direction of H. Villat, editor of LIOUVILLE'S JOURNAL. The first of these monographs, by P. Appell, entitled *Sur une Forme Générale des Équations de la Dynamique*, has just appeared. Six others are in press, and no less than eighty-nine others are in preparation. The purpose is to present in very brief form the fundamental ideas in an extensive range of mathematical topics.

There has been established in Moscow a Joint Information Bureau, whose purpose is to improve the contact between scientists of Russia and those of other countries, and to facilitate an exchange of scientific periodical and non-periodical publications. Personal exchange of their works between scientists may be arranged, as may also the publication of articles. Those interested should address the Russian Information Bureau, 2819 Connecticut Ave., N. W., Washington, D. C.

Cambridge University has awarded its John Bernard Seely prize in aeronautics to W. A. Johnson, of Peterhouse, for an essay on *Dynamical similarity and scale effects*.

The Institut de France has awarded its Osiris prize to Professor Charles Fabry, for his interferometer.

The Paris Academy of Sciences announces the following awards: the Poncelet prize to Professor Ernest Vessiot, of the University of Paris, for his mathematical work; the Francœur prize to Commandant Ernest Malo, for his researches in algebra and arithmetic; the Fourneyron prize (founded in honor of Benoit Fourneyron, inventor of the turbine) to Marcel Crozet-Fourneyron, for his inventions of apparatus for regulating hydraulic motors and for his history of the invention of the turbine; the Henri de Parville prize to Commandant Paul Bloch, for his *Essai de balistique aérienne*; the La Caze prize to Professor Paul Langevin, of the Collège de France, for his scientific work; the Hébert prize to Professor Edgar Haudié, of the Ecole Navale, for his *Cours d'Electricité Générale*; the grand prix des sciences mathématiques to Professor Paul Montel, of the University of Paris, for his work on sequences of analytic functions; the Vaillant prize to Professor Claude Guichard, of the University of Paris, for his work in geometry; a prize from the Hirn foundation to Professor Georges Giraud, of Clermont-Ferrand, for his scientific work; a prize from the Henri Becquerel foundation to Professor René Garnier, for his work in differential equations.

Professor G. Fubini, of the Turin Technical School, has presented a sum of money to the Unione Matematica Italiana to found a prize to be called the "Premio ing. Lazzaro Fubini"; the prize is to be awarded every two years, under conditions to be announced by the Unione, for some unpublished work by a young Italian mathematician.

It is announced that the second award of the Cesare Arzelà prize of the Bologna Academy of Sciences will be made in December, 1928; this prize is awarded to a doctor of an Italian University for work in the theory of functions of real variables completed within five years of his graduation.

Professor Emile Picard, permanent secretary of the Paris Academy of Sciences, has been elected a member of the Académie Française.

Professors L. Bianchi, of the University of Pisa, and E. Goursat, of the University of Paris, have been elected associates in the section of mathematical and physical sciences of the Royal Academy of Belgium.

Professors N. Bohr, of the University of Copenhagen, and M. von Laue, of the University of Berlin, have been elected foreign members of the Royal Academy dei Lincei of Rome.

Professor A. W. Bickerton, of London, has been elected an honorary member of the New Zealand Astronomical Society in recognition of his work on cosmic evolution.

Professor Harry Bateman, of the California Institute of Technology, has been elected a member of the American Philosophical Society.

At the University of Lille, Dr. H. Beghin has been promoted to the chair of rational mechanics.

Professor Elie Cartan, of the University of Paris, has been transferred from the professorship of rational mechanics to that of higher geometry.

Professor C. Riquier, of the University of Caen, has been designated honorary professor.

At the University of Florence, which has been established recently, Professor E. Ciani, of the University of Genoa, has been appointed professor of higher geometry.

At the University of Milan, which has been established recently, Professors L. Berzolari and G. Vivanti, of the University of Pavia, and G. A. Maggi, of the University of Pisa, have accepted the professorships of higher geometry, higher analysis, and mathematical physics, respectively.

At the University of Naples, Professor M. Picone, of the University of Pisa, has been appointed to the chair of calculus, as successor to Professor G. Torelli, who has retired from active teaching; Professor G. Sannia, of the University of Modena, has been transferred to the chair of descriptive geometry.

At the University of Padua, Professor G. Vitali, of the University of Modena, has been appointed professor of calculus as successor to Professor F. d'Arcais, who has retired from active teaching.

Professor A. Palatini, of the University of Parma, has been appointed professor of rational mechanics.

At the University of Pisa, Professor E. Daniele, of the University of Modena, and Professor O. Lazzarino, of the University of Catania, have been appointed to professorships of rational and celestial mechanics.

The following appointments as privat-docents in Italian Universities are announced: University of Bologna, Dr. G. Belardinelli; University of Turin, Dr. U. Cassina; University of Naples, Dr. A. Finzi; University of Florence, Dr. G. Sansone.

The title of emeritus professor of mathematics in the University of London has been conferred on Dr. M. J. M. Hill, who held the chair of pure mathematics at University College from 1884 to 1923.

Professor E. T. Whittaker has been elected dean of the faculty of arts of the University of Edinburgh.

Professor L. P. Eisenhart has been elected dean of the faculty of Princeton University.

Dr. R. E. Gleason, of Princeton University, has been appointed professor of mathematics at Temple University, Philadelphia.

Dr. P. E. Heinke, of the United States Naval Academy, has accepted a position as mathematical analyst at Langley Field, Virginia.

At the University of Vermont, Mr. F. W. Householder has been promoted to an assistant professorship.

Dr. L. M. Kells and Mr. W. A. Conrad, of the United States Naval Academy, have been promoted to assistant professorships of mathematics.

Associate Professor Arthur Kiernan, of the United States Naval Academy, has accepted a position with Ginn and Company.

Professor Solomon Lefschetz, of the University of Kansas, has been appointed to an associate professorship of mathematics at Princeton University.

Mr. W. E. Loring, of the University of Maine, has been appointed assistant professor of mathematics at Colby College, to fill the vacancy caused by the illness of Professor B. E. Carter.

Professor R. G. D. Richardson, of Brown University, secretary of the American Mathematical Society, has been granted leave of absence for the second semester of 1924-25.

At the Agricultural and Mechanical College of Texas, Assistant Professors P. K. Smith and F. W. Sparks have resigned, and Dr. W. P. Udinski has been promoted to an assistant professorship.

The following appointments to instructorships are announced:

University of Vermont, Mr. H. A. Giddings;
Agricultural and Mechanical College of Texas, Messrs. Frank Ayres, A. A. Blumberg, and W. P. Stevens.

Professor E. A. Shaw, for twenty-five years professor of mathematics at Norwich University, has retired from active teaching.

Professor Hugo von Seeliger, of the University of Munich, died December 2, 1924, at the age of seventy-five.

Professor A. G. Hall, registrar of the University of Michigan, died January 11, 1925. Professor Hall had been a member of the American Mathematical Society since 1902.

Mr. D. H. MacPherson, instructor in mathematics at the Brooklyn Polytechnic Institute, died December 28, 1924, at the age of 22.

Mr. W. L. Putnam, attorney at law, of Boston, died July 26, 1924. Mr. Putnam had been a member of the American Mathematical Society since 1910, and had frequently been of great service to the Society in legal matters.

The death is announced of Dr. E. W. Stanton, formerly professor of mathematics at Iowa State College, at the age of seventy-four.

Dr. Brandreth Symonds, chief medical director of the Mutual Life Insurance Company, died August 10, 1924; Dr. Symonds was a member of the American Mathematical Society.