NOTES

The October, 1927, number of the American Journal of Mathematics (volume 49, No. 4) contains the following papers: *New results in elimination*, by F. Morley and A. B. Coble; *Numerical functions of multipartite integers and compound partitions*, by E. T. Bell; *Lagrange resolvents in euclidean geometry*, by L. M. Blumenthal; *The ovals of the plane sextic curve*, by J. H. McDonald; *On isometric systems of curves and surfaces*, by C. E. Weatherburn; *A characteristic property of certain sets of trigonometric functions*, by M. H. Stone; *The normal probability function and general frequency functions*, by M. H. Stone; *On* (3, 3) *and higher point correspondences*, by T. R. Hollcroft; *Contributions to the theory of conjugates*, by E. P. Lane; *A certain general type of Neumann expansions and expansions in confluent hypergeometric functions*, by R. F. Graesser; *A modern presentation of Grassmann's tensor algebra*, by H. Barton. The frontispiece is a portrait of Oskar Bolza.

The September, 1927, number of the Annals of Mathematics (series 2, volume 28, No. 4) contains: *Generalized derivatives*, by A. J. Maria; *A Cremona group isomorphic with the group of the twenty-seven lines on a cubic surface*, by H. L. Black; *Transformations of the Kummer criteria in connection with Fermat's last theorem* (second paper), by H. S. Vandiver; *Theorems on deducibility* (second paper), by C. H. Langford; *On some new types of non-differentiable functions*, by A. N. Singh; *On the problem of coloring maps in four colors*, II, by C. N. Reynolds, Jr.; *Division algebras of order sixteen*, by R. Garver; *Note on a theorem concerning continuous curves*, by W. L. Ayres; *Development of functions in a system of approximately orthogonal functions*, by W. D. Cairns; *Concerning the summability of double series of a certain type*, by G. M. Merriman; *Double elliptic geometry in terms of point, order and congruence*, by D. A. Flanders; *The replacement theorem and related questions in the projective geometry of paths*, by T. Y. Thomas; *On types of knotted curves*, by J. W. Alexander and G. B. Briggs; *A problem in minima*, by D. Jackson; *On the developments of arbitrary functions in series of Hermite's and Laguerre's polynomials*, by J. V. Uspensky; *Parallelism and transversality in a subspace of a general (Finsler) space*, by J. H. Taylor; *On the form of differential equations of a system of paths*, by A. Church; *Differential invariants of relative quadratic differential forms*, by T. Y. Thomas and A. D. Michal.

The editors of the Journal de Mathématiques announce that the volumes for 1928 and 1929 will be dedicated to the eminent mathematicians Paul Appell and Émile Picard, as a tribute upon the occasion of their scientific jubilees. It is obvious that these volumes, to which many eminent mathematicians will contribute, will have unusual importance. The edition will be limited, and the volumes will not be reprinted.

Additional circulars of information and blanks for abstracts of papers for the Congress of Mathematicians to be held at Bologna next September,

have been sent to all those whose names are on the list of prospective participants, as received at the office. Additional copies may be obtained upon request from the office of this Society, 501 West 116th St., New York City.

The British Association for the Advancement of Science will meet at Glasgow, September 5–12, 1928, under the presidency of Sir William Bragg. Professor A. W. Porter will be president of Section A (mathematical and physical sciences).

At the annual meeting of the London Mathematical Society, held November 10, 1927, the following officers were elected: Professor G. H. Hardy, president; Professor A. S. Eddington, Mr. R. H. Fowler, and Professor G. B. Jeffery, vice-presidents; Dr. A. E. Western, treasurer; Professor Harold Hilton, librarian; Professor G. N. Watson and Mr. F. P. White, secretaries.

A meeting commemorating the bicentenary of the death of Sir Isaac Newton was held at the American Museum of Natural History, New York City, November 25–26, 1927, under the auspices of the History of Science Society in collaboration with the American Astronomical Society, the American Mathematical Society, the American Physical Society, and the Mathematical Association of America. The following papers were read: *Introductory address on Newton's life and work*, by D. E. Smith; *Newton and optics*, by D. C. Miller; *Newton's philosophy of gravitation with special reference to modern relativity ideas*, by G. D. Birkhoff; *Newton's influence on the development of astrophysics*, by W. W. Campbell; *Newton and dynamics*, by M. I. Pupin; *Newton as an experimenter*, by P. R. Heyl; *Developments following from Newton's work*, by E. W. Brown; *Newton's twenty years delay in announcing the law of gravitation*, and *Newton's early study of the Apocalypse*, by Florian Cajori; *Newton's work in alchemy and chemistry*, by L. C. Newell; *Newton's place in the history of religious thought*, by G. S. Brett; *Newton in the mint*, by G. E. Roberts; *Newton's first disciple in the American colonies*, by F. E. Brasch.

The Paris Academy of Sciences announces the award of the following prizes for 1927: the Francœur prize to Georges Cerf, for his work in partial differential equations; the Montyon prize in mechanics to Dimitri Sensaud de Lavaud, for his work, based on theoretical considerations, on the prevention of oscillations of the front wheels of automobiles; the Poncelet prize to Henri Villat, for his work in the mechanics of fluids; the de Pontécoulant prize to Emile Paloque, for his work on the analytic theory of the motion of the Trojan planets; prizes in navigation to André Courtier, for his work in hydrography and in the prediction of tides, to Pierre Changeux, for his *Etude Général sur la Dynamique des Navires ou Appareils Utilisées en Navigation Maritime et Aérienne;* and to Edouard Davaux, for his *Cours d'Electrotechnique;* the Hébert prize to Pierre Sève, for his work on alternating currents; the Pourat prize to Antoine Magnan, for his works entitled *Les Charactéristiques des Oiseaux suivant le Mode de Vol, leur Application à la Construction des Avions*, and *Le Vol à Voile avec Contribution à*

l'Etude Expérimentale de la Physique et de la Mécanique des Fluides; the Petit d'Ormoy prize in mathematics to Ernest Vessiot, for his work as a whole; the Saintour prize to Stanislas Zaremba, for his work in mathematical analysis; a prize from the Gegner foundation to Francisque Dumont, for his work in geometry; a prize from the Becquerel foundation to Louis de Broglie, for his work in wave mechanics, atomic structure, and radiation. The Bordin prize, for a memoir on the dynamics of non-holonomic systems, was not awarded, and the subject was withdrawn.

The First Congress of Polish Mathematicians was held at Lwow, September 8–12, 1927, under presidency of Professor Sierpinski. The total attendance was about 200 including many foreign mathematicians. Over 100 papers were read at the Congress.

The Nobel prize in physics for 1927 has been awarded jointly to Professor A. H. Compton, of the University of Chicago, and Professor C. T. R. Wilson, of Cambridge University.

The Hopkins prize of the Cambridge Philosophical Society for the period 1921–25 has been awarded to Dr. J. H. Jeans, for his work on the theory of gases, on radiation, and on the evolution of stellar systems.

The Bruce medal of the Astronomical Society of the Pacific has been awarded to Dr. W. S. Adams, of Mount Wilson Observatory.

The Franklin Institute has voted to award its Cresson gold medal for 1928 to Professor Vladimir Karapetoff, of Cornell University, "in consideration of the inventive ability, skill in design, and detailed theoretical knowledge of kinematics and electrical engineering displayed in the development of computing devices."

Dr. Irving Langmuir, of the General Electric Company, has been awarded the Perkin medal for 1928.

Cambridge University has conferred the honorary degree of doctor of science on Paul Painlevé, professor of analytical and celestial mechanics at the Sorbonne, now French minister of war.

Sir Ernest Rutherford has been elected president of the Royal Society of London. He has also been elected a foreign associate of the Paris Academy of Sciences.

Professor S. Banach has been appointed ordinary professor of mathematics at the University of Lwow.

Dr. Heinrich Behnke, of the University of Hamburg, has been appointed professor of mathematics at the University of Münster.

Professor Martin Brendel, of the University of Frankfurt a.M., has retired.

Dr. Werner Heisenberg, of the University of Copenhagen, has been appointed professor of theoretical physics at the University of Leipzig.

Dr. C. Kuratowski, of the University of Warsaw, has been appointed professor of mathematics at the Technical College of Lwow.

Dr. Alexander Ostrowski, of the University of Göttingen, has been appointed professor of mathematics at the University of Basel.

Professor Theodor Pöschl, of the German Technical School at Prague, has been appointed professor of mechanics at the Karlsruhe Technical School.

Professor G. Albanese, of the University of Catania, has been transferred to the professorship of descriptive geometry at the University of Palermo.

Professor E. Bompiani, of the University of Bologna, has been transferred to the professorship of descriptive geometry at the University of Rome.

Dr. L. Fantappiè, of the University of Rome, has been appointed associate professor of algebraic analysis at the University of Cagliari.

Miss P. Nalli, professor of the calculus at the University of Cagliari, has been transferred to a professorship of the calculus at the University of Catania.

Mrs. M. Piazzola Beloch and Dr. A. Tonolo have been appointed to associate professorships of analytic geometry and the calculus at the University of Ferrara.

Dr. N. Spampinato, of the University of Catania, has been promoted to an associate professorship of descriptive geometry.

Professor A. B. Coble, of the Johns Hopkins University, has accepted a professorship of mathematics at the University of Illinois, where he had been prior to the present academic year.

Professor B. F. Dostal, of the University of Michigan, has been appointed assistant professor of mathematics at the University of Florida.

Professor G. H. Hardy, of Oxford, will be in residence at Princeton during the first half of the academic year 1928–29, and will give a course entitled *Chapters in the theory of functions*. During the same period, Professor Oswald Veblen, of Princeton University, will be in residence at Oxford, and will give a course entitled *Tensors and other differential invariants*.

Dr. L. S. Hill has been appointed assistant professor of mathematics at Hunter College.

At the University of Illinois, Professors Arnold Emch and Olive C. Hazlett have been granted leave of absence for the coming academic year, for study in Europe.

Associate Professor Lao G. Simons has been promoted to be full professor and head of the department of mathematics at Hunter College.

Professor Mary E. Sinclair, of Oberlin College, has been granted leave of absence for the year 1927–28, and is in residence at the University of Miami, Coral Gables.

Dr. V. B. Teach has been appointed assistant professor of mathematics at the Armour Institute of Technology.

Dr. S. Timoshenko, of the research department of the Westinghouse Company, has been appointed professor of applied mathematics at the University of Michigan. He is succeeded at the Westinghouse Company by Dr. A. Nádai, of Göttingen.

Dr. D. V. Widder has been appointed associate professor of mathematics at Bryn Mawr College.

Professor E. I. Fredholm, of the University of Stockholm, known for his fundamental work in integral equations, died August 17, 1927, at the age of sixty-one.

Dr. Emil Müller, professor of descriptive geometry at the Vienna Technical School, died September 1, 1927.

Dr. R. A. Herman, lecturer in mathematics at Cambridge University, died November 29, 1927, at the age of sixty-six.

Mr. H. M. Taylor, F. R. S., fellow of Trinity College, Cambridge, is dead.

Professor F. J. Dick, of the Theosophical University, Point Loma, died May 25, 1927. Professor Dick was a member of the American Mathematical Society.

Dr. G. A. Osborne, professor emeritus of mathematics at the Massachusetts Institute of Technology, died November 20, 1927, at the age of eighty-eight. Professor Osborne had been a member of the American Mathematical Society since 1891.

Professor H. E. Russell, of the University of Denver, died May 31, 1927. Professor Russell was a member of the American Mathematical Society.

Mr. William Young, actuary of the New York Life Insurance Company, died October 23, 1927, at the age of fifty-two. Mr. Young was a member of the American Mathematical Society.