

## NOTES

The July, 1928, number of the Transactions of this Society (volume 30, No. 3) contains the following papers: *Transversality in space of three dimensions*, by E. Kasner; *On integral equations with discontinuous kernels*, by J. D. Tamarkin and R. E. Langer; *On approximation to an arbitrary function of a complex variable by polynomials*, by J. L. Walsh; *Transformations of nets*, by V. G. Grove; *Allgemeine Eigenschaften der Cantorsche Kohärenzen*, by M. Zarycki; *On the irregular cases of the linear ordinary difference equation*, by C. R. Adams; *On the convergence of quadrature formulas related to an infinite interval*, by J. V. Uspensky; *Second-order linear systems with summable coefficients*, by J. H. Sturdivant; *Concerning the arc curves and basic sets of a continuous curve*, by W. L. Ayres; *A solution of the matrix equation  $P(X) = A$* , by W. E. Roth; *Concerning the cut points of continua*, by G. T. Whyburn; *Some theorems on the connection between ideals and group of a Galois field*, by O. Ore.

The July, 1928, number of the American Journal of Mathematics (volume 50, No. 3) contains: *On hyperelliptic  $\theta$ -functions with rational characteristics*, by O. Zariski; *Certain perfect groups generated by two operators of orders two and three*, by H. R. Brahana; *On triadic Cremona nets of of plane curves*, by F. Farnum; *Number relations between types of extremals joining a pair of points*, by D. E. Richmond; *An intrinsic treatment of Poisson's integral*, by F. W. Perkins; *On the invariant combinants of two binary quintics*, by T. W. Moore; *A boundary value problem of ordinary self-adjoint differential equations with singularities*, by M. C. Gray; *Nets of conics in the real domain*, by A. D. Campbell; *Rational tacnodal and oscnodal quartic curves considered as plane sections of quartic surfaces*, by L. T. Moore and J. H. Neelley.

The April, 1928, number of the Annals of Mathematics (series 2, volume 29, No. 2) contains: *The canonical form of a one-parameter group*, by P. Franklin; *A class of real quadratic forms in infinitely many variables*, by F. H. Murray; *The general geometry of paths*, by J. Douglas; *On a geometrical theory of continuous groups. II. Euclidean and hyperbolic groups of three-dimensional space*, by B. de Kerékjártó; *A method of numerical solution of the problem of Plateau*, by J. Douglas; *Minimizing two types of definite integral*, by P. R. Rider; *On two types of plane rational curve*, by H. Hilton; *A correspondence between matrices and quadratic ideals*, by C. C. MacDuffee; *A class of functional equations*, by E. Hille; *Definitions of abstract groups*, by G. A. Miller; *Concerning a set of metrical hypotheses for geometry*, by J. L. Dorroh; *Closed point sets on a manifold*, by S. Lefschetz.

A new Bulletin of the National Research Council series has recently appeared, entitled *Selected topics in algebraic geometry*. It contains chapters by A. B. Coble, A. Emch, S. Lefschetz, F. R. Sharpe, C. H. Sisam, and V. Snyder.

The Open Court Publishing Company has just issued, through the University of Chicago Press, the first volume, *Notations in Elementary Mathematics*, of a work entitled *A History of Mathematical Notations*, by Professor F. Cajori, of the University of California.

By the will of Lieutenant Colonel A. J. C. Cunningham, who died February 8, 1928, the London Mathematical Society will receive his library, and also £1,000 for the improvement of methods of factorization of large numbers, and £2,000 for the publication of Colonel Cunningham's works. One twelfth of the residuary estate also will go to the London Mathematical Society, and one twelfth to the mathematical subsection of the British Association, for preparing new mathematical tables in the theory of numbers.

Professor J. W. Lasley, of the University of North Carolina, has been elected chairman of the mathematics section of the North Carolina Academy of Science, and Professor W. W. Elliott, of Duke University, secretary of that section.

The Albert medal of the Royal Society of Arts has been awarded to Sir Ernest Rutherford, for his pioneer researches in the structure of matter.

Dr. Henri Deslandres, director of the observatory of Paris, has received the honorary degree of doctor of mathematics and physics from the University of Leyden.

Professor Emile Picard, of the University of Paris, celebrated, on May 6, 1928, his fiftieth scientific anniversary.

Cambridge University has conferred an honorary doctorate on Professor A. Einstein.

Professors David Hilbert, Paul Langevin, and Ludwig Prandtl have been elected foreign members of the Royal Society of London.

Dr. J. H. Jeans, secretary of the Royal Society, has been knighted.

Dr. Cristóbal de Losada y Puga, of Lima, Peru, a member of this Society, has been elected a corresponding member of the Royal Academy of Sciences of Madrid.

Sir Ernest Rutherford has been elected an associate of the Royal Academy of Belgium.

Williams College has conferred the honorary degree of doctor of science on Professor W. A. Bratton, of Whitman College.

Columbia University has conferred an honorary doctorate on President W. W. Campbell, of the University of California, director of the Lick Observatory.

Professor Joaquin Gallo, director of the National Astronomical Observatory of Mexico, has received the honorary degree of doctor of science from Northwestern University.

The University of Indiana has conferred an honorary degree on Professor J. A. Miller, of Swarthmore College.

Princeton University has conferred the honorary degree of doctor of science on Professor R. A. Millikan.

The chair of physics of Bryn Mawr College has been named in honor of Marion Reilly; for partial support of it, a fund to be known as the Marion Reilly Memorial is being created by a committee of her friends and classmates, under the chairmanship of Mrs. Monroe Buckley.

Professor Karl Pearson has been elected a foreign honorary member of the American Academy of Arts and Sciences.

Professor U. Amaldi, of the Higher School of Architecture at Rome, has been elected a corresponding member of the Reale Accademia dei Lincei.

The R. Accademia delle Scienze of Turin has elected the following corresponding members: E. Fermi, of the University of Rome; A. Signorini, of the University of Naples; L. Tonelli, of the University of Bologna; G. Vitali, of the University of Padua. Professor Vitali has been named corresponding member of the R. Istituto Veneto; he has also been awarded the prize for mathematics for the year 1927 by the Italian Society of Sciences.

Professor W. B. Ford, of the University of Michigan, has been granted leave of absence for the current academic year and will travel in Europe. Representing the Carnegie Endowment for International Peace, he will lecture at the Universities of Leiden and Utrecht in Holland, the University of Brussels in Belgium, the Universities of Lille and Grenoble in France, and the University of Pisa in Italy.

Professor M. I. Pupin has received the honorary degree of doctor of laws from Middlebury College. He has also recently been elected an honorary member of the American Institute of Electrical Engineers.

Professor D. E. Smith, retired, of Columbia University, has returned from Europe, where he has served as a visiting Carnegie professor of international relations. Representing the Carnegie Endowment for International Peace, he lectured at University College, London, and at the Universities of Montpellier and Toulouse.

Associate Professor Ludwig Berwald, of the German University of Prague, has been appointed to a professorship at the German Technical School at Prague. Dr. Paul Funk has been promoted to a professorship of mathematics at the same technical school.

At the University of Göttingen, Professor H. Bohr, of the Copenhagen Technical School, has been appointed to a professorship of mathematics; Dr. Hans Lipps and Dr. Max Schuler have been promoted to associate professorships.

Dr. Alwin Walther has been appointed professor of mathematics at the Darmstadt Technical School.

Assistant Professor C. R. Adams, of Brown University, has been promoted to an associate professorship of mathematics.

Dr. Constance R. Ballantine has been appointed associate in mathematics at the University of Washington.

Assistant Professor I. A. Barnett, of the University of Cincinnati, has been promoted to an associate professorship of mathematics.

Mr. C. F. Bowles has been promoted to an assistant professorship of mathematics at the South Dakota State School of Mines.

Associate Professor J. A. Bullard, of the United States Naval Academy, has been appointed to a professorship of mathematics at the University of Vermont.

Assistant Professor W. B. Campbell, of Colgate University, has been appointed by the Baptist Mission Board lecturer in mathematics at Judson College, Rangoon, Burma.

Dr. Elizabeth Carlson has been promoted to an assistant professorship at the University of Minnesota.

Dr. M. G. Carman has been appointed head of the department of mathematics at Murray State Teachers College, Murray, Ky.

Associate Professor A. F. Carpenter, of the University of Washington, has been promoted to a professorship of mathematics.

Dr. W. F. Cheney has been promoted to an assistant professorship of mathematics at Tufts College.

Assistant Professor Lennie P. Copeland has been promoted to an associate professorship at Wellesley College.

Assistant Professor C. H. Currier has been promoted to an associate professorship of mathematics at Brown University.

Mr. L. J. Deck has been promoted to a professorship of mathematics at Muhlenberg College.

Assistant Professor R. F. Deimel, of Stevens Institute of Technology, has been promoted to an associate professorship of mechanics.

Dr. R. D. Doner has been appointed associate professor of mathematics at the Alabama Polytechnic Institute.

Assistant Professor W. E. Edington has been promoted to an associate professorship of mathematics at Purdue University.

Assistant Professor H. A. Fales, of Columbia University, has been promoted to an associate professorship of chemistry.

Assistant Professor I. H. Fenn, of the Brooklyn Polytechnic Institute, has been promoted to an associate professorship of mathematics.

Assistant Professor G. H. Graves has been promoted to an associate professorship of mathematics at Purdue University.

Dr. D. C. Harkin has been appointed associate professor at the Alabama Polytechnic Institute.

Assistant Professor D. A. Hatch, of Lafayette College, has been promoted to an associate professorship of mathematics.

Dr. C. E. Horne has been appointed professor of mathematics at the University of Porto Rico.

Assistant Professor Daniel Hull has been promoted to be full professor and head of the department of physics at the University of Notre Dame.

Dr. Vern James has been appointed head of the department of mathematics at Menlo Junior College.

Mr. F. C. Jonah has been appointed assistant professor of mathematics at Adelbert College.

Dr. E. G. Keller has been appointed assistant professor of mathematics at the University of Texas.

Assistant Professor Claribel Kendall, of the University of Colorado, has been promoted to an associate professorship of mathematics.

Associate Professor F. C. Kent has been promoted to a professorship of mathematics at the Oregon State Agricultural College.

Associate Professor E. P. Lane has been promoted to a professorship of mathematics at the University of Chicago.

Mr. H. I. Lane has been appointed assistant professor of mathematics at the University of South Dakota.

Dr. C. G. Latimer has been appointed professor of mathematics at the University of Kentucky.

Dr. E. E. Libman, of the University of Illinois, has been promoted to an assistant professorship of physics.

Dr. R. B. Lindsay has been promoted to an assistant professorship of physics at Yale University.

Dr. R. G. Lubben has been appointed adjunct professor of mathematics at the University of Texas.

Assistant Professor G. F. McEwen has been promoted to a full professorship at the Scripps Institution of Oceanography.

Dr. Elsie J. McFarland has been promoted to an assistant professorship of mathematics at the University of Oklahoma.

Dr. A. J. Maria has been appointed assistant professor of mathematics at the University of Illinois.

Assistant Professor R. W. Marriott has been promoted to a professorship of mathematics and astronomy at Swarthmore College.

Dr. Florence M. Mears has been appointed acting assistant professor of mathematics at Pennsylvania State College.

Professor J. M. Melchior has been appointed professor of physics at Loyola University, Mattoon, Wis.

Dr. G. M. Merriman has been appointed assistant professor of mathematics at Grinnel College.

Associate Professor J. C. Morehead has been promoted to a professorship of graphics in the department of architecture of the Carnegie Institute of Technology.

Associate Professor F. R. Morris has been promoted to be professor and head of the department of mathematics and engineering at Fresno State College.

Assistant Professor D. S. Morse has been promoted to an associate professorship of mathematics at Union College.

Assistant Professor Marston Morse has been promoted to an associate professorship of mathematics at Harvard University.

Associate Professor F. D. Murnaghan, of Johns Hopkins University, has been promoted to a professorship of applied mathematics.

Associate Professor J. R. Musselman, of Johns Hopkins, has been appointed professor of mathematics in the Woman's College of Western Reserve University.

Assistant Professor J. A. Northcott has been promoted to an associate professorship of mathematics at Columbia University.

Dr. H. P. Pettit has been appointed professor of mathematics at Marquette University.

Mr. H. S. Pollard has been appointed assistant professor of mathematics at Miami University.

Assistant Professor R. G. Putnam, of New York University, has been promoted to an associate professorship of mathematics.

Associate Professor L. J. Reed, of Johns Hopkins, has been promoted to a professorship of biometry and vital statistics.

Professor P. R. Rider, of Washington University, has been appointed Sterling Research Fellow at Yale for the year 1928-29.

Associate Professor H. M. Robert has been promoted to a professorship at the United States Naval Academy.

Assistant Professor H. P. Robertson, of the California Institute of Technology, has been appointed visiting assistant professor of mathematical physics at Princeton University for the year 1928-29.

Dr. C. F. Roos has been appointed assistant professor of mathematics at Cornell University.

Dr. W. E. Roth has been appointed assistant professor at the University of Wisconsin, in the university extension division at Milwaukee.

Dr. C. A. Rupp has been appointed assistant professor of mathematics at Pennsylvania State College.

Dr. Hazel E. Schoonmaker has been appointed assistant professor of mathematics at the New Jersey College for Women.

Assistant Professor H. A. Simmons has been promoted to an associate professorship at Northwestern University.

Assistant Professor Herman L. Smith has been promoted to an associate professorship of mathematics at Louisiana State University.

Mr. A. F. C. Stevenson has been promoted to an assistant professorship of mathematics at the University of Toronto.

Dr. M. H. Stone has been promoted to an assistant professorship of mathematics at Harvard.

Dr. Marian M. Torrey has been promoted to an assistant professorship of mathematics at Goucher College.

Dr. P. S. Wagner has been appointed professor of mathematics at Lebanon Valley College, Annville, Pa.

Dr. L. E. Ward has been promoted to an assistant professorship of mathematics at the University of Iowa.

Assistant Professor Warren Weaver, of the University of Wisconsin, has been promoted to a professorship of mathematics.

Dr. G. T. Whyburn has been promoted to an adjunct professorship of mathematics at the University of Texas.

Dr. Frederick Wood has been appointed professor of mathematics at Hamline University.

Miss Frances M. Wright has been appointed to an assistant professorship at Elmira College.

The following appointments to instructorships in mathematics are announced:

- University of Arkansas, Mr. D. P. Richardson;
- Brooklyn Polytechnic Institute, Mr. D. E. Whitford;
- Bryn Mawr College, Mr. H. H. Pixley;
- Cornell University, Mr. L. J. Paradiso;
- Hunter College, Miss R. L. Anderson;
- University of Illinois, Dr. Bessie I. Miller;
- Johns Hopkins University, Dr. L. M. Blumenthal;
- Lafayette College, Mr. J. H. Fithian;
- Lehigh University, Dr. H. B. Hammatt, Messrs. Keeler and Hugh Stanley, Dr. W. J. Trjitzinsky, Mr. A. N. Van Arnam;
- University of Michigan, Mr. F. S. Beale;
- Oregon State Agricultural College, Miss Melva K. Thompson;
- University of Rochester, Miss Rose A. Whelan;
- Sweet Briar College, Miss Julia W. Bower;
- Williams College, Mr. H. L. Dorwart;
- Winthrop College, Miss Alice A. Grant;
- University of Wisconsin, Mr. J. I. Vass.

Professor Luigi Bianchi, director of the Scuola Normale Superiore at Pisa, died June 6, 1928, at the age of seventy-two.

Professor Arthur Schoenflies, of the University of Frankfurt on Main, died May 27, 1928, at the age of seventy-five.

Professor Otto Staude, of the University of Rostock, is dead.

Professor Heinrich Weber, formerly professor of physics at the Braunschweig Technical School, is dead.

Professor R. E. Allardice, of Stanford University, died May 29, 1928, at the age of sixty-six. Professor Allardice had been a member of the American Mathematical Society since 1901.

Professor L. W. Dowling, of the University of Wisconsin, died on September 16, 1928, at the age of sixty-one. He had been a member of this Society since 1897.

Mr. J. H. Woodward, consulting actuary, of New York City, died May 15, 1928. Mr. Woodward was a member of the American Mathematical Society.