

NOTES

At the meeting of the Chicago Section of this Society on April 13-14 in Chicago, Professor S. Lefschetz, of the University of Kansas, will deliver a symposium lecture on *Curves traced on algebraic surfaces*.

The opening number of volume 23 of the TRANSACTIONS OF THIS SOCIETY contains the following papers: *Relatively uniform convergence and the classification of functions*, by E. W. Chittenden; *Periodic functions with a multiplication theorem*, by J. F. Ritt; *Note on Dirichlet and factorial series*, by Tomlinson Fort; *Functions of infinitely many variables in Hilbert space*, by W. L. Hart; *Prime and composite polynomials*, by J. F. Ritt; *Some two-dimensional loci connected with cross ratios*, by J. L. Walsh; *On transformations with invariant points*, by J. W. Alexander; *Invariant points in function space*, by G. D. Birkhoff and O. D. Kellogg. Volume 23 is the extra volume presented to the Society by an anonymous donor (see this BULLETIN, vol. 28, p. 234).

The opening number of volume 44 (1922) of the AMERICAN JOURNAL OF MATHEMATICS contains: *An arithmetical dual of Kummer's quartic surface*, by E. T. Bell; *Incidences of straight lines and plane algebraic curves and surfaces generated by them*, by Arnold Emch; *On the theorems of Gauss and Green*, by V. C. Poor; *An extension of the Sturm-Liouville expansion*, by C. C. Camp; *Conformal transformations of period n and groups generated by them*, by Harry Langman.

The December, 1921, number (vol. 23, No. 2) of the ANNALS OF MATHEMATICS contains: *Transformations of trajectories on a surface*, by Joseph Lipka; *On the structure of finite continuous groups with one two-parameter invariant subgroup*, by S. D. Zeldin; *On the simplification of the structure of finite continuous groups with more than one two-parameter invariant subgroup*, by S. D. Zeldin; *The automorphic transformation of a bilinear form*, by J. H. M. Wedderburn; *A direct determination of the minimum area between a curve and its caustic*, by Otto Dunkel; *The Poisson integral and an analytic function on its circle of convergence*, by A. Arwin; *Systems of circuits on two-dimensional manifolds*, by H. R. Brahana; *Two generalizations of the Stieltjes integral*, by P. J. Daniell.

Two volumes of the PUBLICATIONS DE L'INSTITUT MATHÉMATIQUE DE L'UNIVERSITÉ DE STRASBOURG have appeared, in 1920 and 1922. They contain memoirs published by the members of the faculty of the University.

At the meeting of the National Academy of Sciences held in New York City November 14-16, 1922, the following mathematical papers were read: *On the attraction of a central body in the theory of relativity*, by G. D. Birkhoff; *The equiaffine geometry of paths*, by Oswald Veblen; *The cosmological equation of gravitation*, by Edward Kasner; *The use of isophelomatic lines in*

historical geography, A new theory of population, A new hydrodynamica phenomenon, and Further results in interior ballistics, by A. G. Webster
Affine geometry of paths possessing an invariant integral, by L. P. Eisenhart.
The Draper Gold Medal was presented to Professor H. N. Russell, of Princeton University.

At the meeting of the International Research Council at Brussels, in July, 1922, the following executive committee was elected to serve until 1925: E. Picard, president; G. Leconte and V. Volterra, vice-presidents; Sir A. Schuster, secretary general.

The following awards of Nobel prizes in physics have been announced: for 1921, to Professor Albert Einstein, for his theory of relativity and his general work in physics; for 1922, to Professor Neils Bohr, for his researches in the structure of atoms and radiation.

The Paris Academy of Sciences has awarded its Lalande Medal to Professor H. N. Russell, of Princeton University, and its Janssen Medal to Dr. Carl Stormer, professor of pure mathematics at the University of Christiania, for his work on the aurora borealis.

Dr. J. G. Hagen, director of the observatory of the Vatican, has been elected non-resident member of the Accademia dei Lincei.

The Royal Society of London has awarded its Sylvester Medal to Professor Tullio Levi-Civita, for his researches in geometry and mechanics.

The Franklin Medal of the Franklin Institute of Philadelphia has been presented to Sir J. J. Thomson.

Professor J. H. Jeans received the doctorate of science from Oxford University on the occasion of his delivery of the Halley lecture.

Professor N. E. Nörlund, of the University of Lund, has been called to the University of Copenhagen.

Professor F. von Dalwigk, of the University of Marburg, has been called to the Potsdam Geodetic Institute.

Dr. H. König, of the University of Göttingen, has been appointed professor of mathematics at the school of mines at Clausthal.

Dr. E. Kruppa has been appointed associate professor of mathematics at the Vienna Technical School.

Professor H. von Sanden, of the school of mines at Clausthal, has been appointed to a professorship at the Hannover Technical School.

Dr. C. Siegel, of the University of Göttingen, has been appointed professor of mathematics at the University of Frankfurt am Main.

Professor R. Mehmke, of the Stuttgart Technical School, has retired from active teaching.

Dr. A. Ostrowski has been admitted as privat docent at the University of Hamburg.

Dr. Janet has been appointed professor of pure mathematics at the University of Rennes.

Professor S. K. Banerji, of the department of applied mathematics at the University of Calcutta, has resigned to become director of the observatories at Bombay.

The Council of the University of Sheffield has appointed Professor A. H. Leahy emeritus professor of mathematics.

Mr. G. P. Thomson, lecturer in mathematics at Corpus Christi College, Cambridge, has been appointed professor of natural philosophy at the University of Aberdeen, as successor to Professor C. Niven, retired.

Mr. E. C. Francis, of Trinity College, has been elected fellow and lecturer in mathematics at Peterhouse, Cambridge.

Associate Professor C. F. Gummer has been promoted to a full professorship at Queen's University, Kingston.

Professor A. Sommerfeld will deliver a course of lectures at the Bureau of Standards, Washington, early in March, 1923, on the quantum theory and related subjects.

Associate Professor C. M. Sparrow, of the University of Virginia, has been promoted to a full professorship of physics.

Dr. T. H. Brown, of Yale University, has been appointed assistant professor of foreign trade at Columbia University.

Professor Glenn James, of the Carnegie Institute of Technology, has been appointed assistant professor of mathematics at the southern branch of the University of California.

Mr. R. M. Deming, of the Case School of Applied Science, has been appointed professor of mathematics at Upper Iowa University, Fayette.

Mr. F. H. Murray has been appointed instructor in mathematics at the University of West Virginia.

The death is reported of Professor A. V. Bäcklund, of Lund, at the age of seventy-seven years.

Professor C. A. Fischer, of Trinity College, Hartford, died December 7, 1922.