NOTES

A new monthly abstract journal for mathematics and the allied sciences has been established, under the editorship of O. Neugebauer; it is entitled Zentralblatt für Mathematik und ihre Grenzgebiete (reine und angewandte Mathematik, theoretische Physik, Astrophysik, Geophysik). The board of editors is as follows: P. Alexandroff, J. Bartels, W. Blaschke, R. Courant, H. Hahn, G. H. Hardy, F. Hund, G. Julia, O. D. Kellogg, H. Kienle, T. Levi-Civita, R. Nevanlinna, H. Thirring, B. L. van der Waerden. It is published by Julius Springer; price 48 rentenmarks per annual volume.

Publication of a new series (series 2) of Annali della R. Scuola Normale Superiore di Pisa will begin in November, 1931. The publication will be in two separate sections, one in mathematics and mathematical physics and one in literature. The section in mathematics and mathematical physics will be edited by the science faculty of the University of Pisa under the direction of Professor Leonida Tonelli, Director of the Mathematical Institute of the University and Professor at the Scuola Normale. One volume of this section will be published annually, consisting of four parts of about a hundred pages each. It will be published by Nicola Zanichelli, Bologna; price 100 lire per annual volume.

A new journal devoted to mathematical recreations, entitled Revue Périodique des Questions Récréatives, has been established under the editorship of M. Kraïtchik, of Brussels.

The firm of G. E. Stechert and Company, of New York, announce that they have reprinted *The Introduction to the Lie Theory of One-Parameter Groups*, by A. Cohen, long out of print and scarce. They have also in preparation reprints of Boole's *Differential Equations* and Bolza's *Calculus of Variations*.

The next International Mathematical Congress will be held in September, 1932, at Zurich, Switzerland.

According to a notice issued, in Latin, by the Pontifical Academy of Sciences (Nuovi Lincei), that Academy is inaugurating the broadcasting of notes and information on mathematics and the experimental sciences and their applications. In general, the language used will be Latin, but for notes referring to investigations or discoveries the author's own language may be used. A general invitation to supply material for this purpose is expressed, and all communications submitted will be considered by a committee of the Academy.

A symposium on *Mathematics in the service of chemistry* was held by the American Chemical Society at its spring meeting at Indianapolis. The addresses presented at this symposium have been published in the Journal of Chemical Education for June, 1931, and include articles on thermodynamic calculations, quantum theory, and the structure of the atom with particular reference to valence.

The Royal Belgian Academy announces the following subject for its prize in mathematics to be awarded in 1932: *to complete, in some important respect, recent researches on the properties of functions univalent in a given area.* This Academy has awarded its F. Deruyts prize to Professor R. Deaux, of the School of Mines at Mons, for his work in synthetic geometry.

Professor Ganesh Prasad, of the University of Calcutta, has presented the sum of 1,400 rupees to the Calcutta Mathematical Society to found a prize and medal in memory of his daughter.

President K. T. Compton, of the Massachusetts Institute of Technology' has been awarded the Rumford medal of the American Academy of Arts and Sciences, for his researches in thermionics and spectroscopy.

Dr. Werner Heisenberg, professor of theoretical physics at the University of Leipzig, has been awarded the Barnard medal of Columbia University.

The Daniel Guggenheim gold medal for notable achievement in aeronautics has been awarded to Dr. F. W. Lancaster, of Birmingham, England, for his contributions to the fundamental theory of aerodynamics.

Professor Emile Cotton has been elected correspondent of the Paris Academy of Sciences, in the section of geometry.

Professor Albert Einstein has received the honorary degree of doctor of science from the University of Oxford.

Professor Maurice Fréchet has been elected foreign member of the Polish Academy of Sciences.

Dr. Ernst Lindelöf, of Helsingfors, has been elected corresponding member of the Prussian Academy of Sciences.

Professor Gino Loria, of the University of Genoa, has been elected member of the Masaryk Academy of Prague.

Sir William Bragg has been awarded the Order of Merit.

Sir Arthur Eddington has been elected president of the London Physical Society.

Professor Horace Lamb, of the University of Manchester, has been knighted.

The University of St. Andrews has conferred honorary doctorates on Sir J. H. Jeans and the Reverend Alfred Young.

Lord Rutherford has been elected president of the British Institute of Physics.

President K. T. Compton, of the Massachusetts Institute of Technology, has received an honorary doctorate of science from Stevens Institute.

Professor P. Debye, of the University of Leipzig, has been elected foreign associate of the National Academy of Sciences.

Sir Arthur Eddington, of Cambridge, has been elected foreign member of the American Philosophical Society.

Professor L. P. Eisenhart, of Princeton, has received the honorary degree of doctor of science from Columbia University.

Sir J. H. Jeans has received an honorary doctorate of laws from Johns Hopkins University.

Professor R. L. Moore, of the University of Texas, has been elected member of the National Academy of Sciences.

Professor George Rutledge, of the Massachusetts Institute of Technology, has been elected fellow of the American Academy of Arts and Sciences.

In addition to his lectures at the Collège de France, mentioned in the May issue of this Bulletin, Professor George David Birkhoff, of Harvard University, lectured on May 1 at the Institut Henri Poincaré on *Quelques questions sur les équations différentielles dans le domaine réel*, on June 3 before the Société Mathématique de France on *Quelques courbes fermées remarquables*, and on June 5 before the Société Philosophique de France on *Une théorie quantitative de l'ésthétique*. His mathematical lectures will appear in the Journal de Mathématiques, in the Bulletin de la Société Mathématique, and in the Annales de l'Institut Henri Poincaré.

Professor Wilhelm Blaschke, visiting lecturer of the American Mathematical Society, delivered the following lectures in the spring of 1931: at Lehigh University, April 10, *On foundations of geometry*; at the University of Pennsylvania, April 24, *Topological questions of differential geometry*; at George Washington University, May 16, *Foundations of differential geometry*.

Professor Karl Federhofer, of Graz, has been appointed professor of technical mechanics at the Munich Technical School.

Dr. T. H. Kiang has been appointed professor of mathematics at the Peking National University.

Professor Jacques Chapelon has been appointed to the professorship of rational mechanics and the calculus of probabilities at the University of Lille.

Professor J. Kampé de Fériet, "professor sans chaire" at the University of Lille, has been appointed to the professorship of the mechanics of fluids.

Professor Sebastian Finsterwalder, of the Munich Technical School, has retired.

Dr. Viktor Kommerell has been appointed honorary professor of mathematics at the University of Tübingen.

Dr. H. Hopf has been appointed professor of mathematics at the Zurich Technical School.

Professor E. W. Hobson, of the University of Cambridge, will retire in September, 1931.

Dr. R. C. J. Howland has been appointed reader in mathematics at University College, London.

Assistant Professor Evelyn T. Carroll has been promoted to an associate professorship of mathematics at Wells College.

Dr. L. W. Cohen has been appointed assistant professor of mathematics at the University of Kentucky.

Assistant Professor T. F. Cope has been promoted to a professorship of mathematics at Marietta College.

Dr. F. W. Doermann, of New York University, has been promoted to an assistant professorship of physics.

Associate Professor H. H. Downing, of the University of Kentucky, has been promoted to a professorship of mathematics.

Dr. W. L. Duren, of the College of the City of Detroit, has been appointed assistant professor of mathematics at Tulane University.

Dr. W. W. Flexner has been appointed lecturer at Bryn Mawr College.

Associate Professor M. C. Foster has been promoted to a professorship of mathematics at Wesleyan University.

Dr. H. Hencky, of the Delft Technical School, has been appointed associate professor of mechanics at the Massachusetts Institute of Technology.

Dr. Deborah M. Hickey has been appointed professor of mathematics at the Mississippi Delta State Teachers College.

Mr. E. H. Hildebrandt has been appointed assistant professor of mathematics at De Pauw University.

Mr. A. S. Householder has been promoted to an assistant professorship of mathematics at Washburn College.

Assistant Professor W. G. Hubert has been promoted to an associate professorship at the College of the City of New York.

Dr. H. K. Hughes has been appointed assistant professor of mathematics at Purdue University.

Professor Alfred Hume, of Southwestern University, Memphis, has been appointed president of Branham and Hughes Military Academy, Spring Hill, Tennessee.

Professor J. A. Hurry, of Western State College, Gunnison, Colorado, has been appointed head of the department of physics at San Antonio Junior College.

Assistant Professor F. E. Johnston, of George Washington University, has been promoted to an associate professorship of mathematics.

Associate Professor W. C. Krathwohl, of the Armour Institute of Technology, has been promoted to a professorship of mathematics.

Dr. K. Lanczos, professor of mathematics and mathematical physics at the University of Frankfurt, has been appointed visiting professor of mathematics at Purdue University for the year 1931–32.

Professor Alfred Landé, of the University of Tübingen, has been appointed professor of theoretical physics at Ohio State University.

Associate Professor H. F. MacNeish, of the College of the City of New York, has been transferred to Brooklyn College.

Dr. J. E. Merrill has been appointed assistant professor of astronomy at the University of Illinois.

Assistant Professor W. M. Miller, of Marquette University, has been appointed to an assistant professorship at Tufts College.

Dr. A. K. Mitchell, of Yale University, has been appointed to an assistant professorship at Trinity College, Hartford.

Professor U. G. Mitchell, of the University of Kansas, has been appointed head of the department of mathematics, succeeding Professor C. H. Ashton, who will, however, continue his teaching schedules.

Dr. D. C. Morrow has been promoted to an assistant professorship at the College of the City of Detroit.

Associate Professor D. S. Morse has been promoted to a professorship of mathematics at Union College.

Dr. C. V. Newsom has been appointed associate professor of mathematics at the University of New Mexico.

Professor E. J. Oglesby, of Washington Square College, New York University, has been appointed professor of engineering mathematics at the University of Virginia.

Dr. Anna Pell-Wheeler will resume her position as head of the department of mathematics at Bryn Mawr College in the fall of 1931.

Assistant Professor G. A. Pfeiffer, of Columbia University, has been promoted to an associate professorship of mathematics.

Professor C. L. Poor, of the department of celestial mechanics at Columbia University, has retired.

Miss Mary J. Quigley, of Boston Teachers College, has been promoted to a professorship of mathematics.

Professor G. E. Raynor of the University of Arkansas, has been apointed assistant professor of mathematics at Lehigh University.

Associate Professor O.H. Rechard, of the University of Wyoming, has been promoted to a professorship of mathematics.

Associate Professor J. F. Ritt, of Columbia University, has been promoted to a professorship of mathematics.

Rafael Sanchez-Diaz, of the College of Agricultural and Mechanical Arts, University of Porto Rico, has been promoted to an assistant professorship.

Assistant Professor Hazel E. Schoonmaker, of the New Jersey College for women, has been appointed professor of mathematics at Hartwick College, Oneonta.

Assistant Professor I. W. Smith, of North Dakota State College, has been promoted to a professorship of mathematics.

Associate Professor R. G. Smith, of Kansas State Teachers College, Pittsburg, has been promoted to a professorship.

Dr. G. W. Starcher, of Ohio University, has been promoted to an assistant professorship of mathematics.

Assistant Professor J. S. Taylor, of the University of Pittsburgh, has been promoted to a professorship of mathematics.

Assistant Professor V. B. Teach, of the Armour Institute of Technology, has been promoted to an associate professorship of mathematics.

Dr. A. Marie Whelan has been promoted to an assistant professorship of mathematics at Hunter College.

Associate Professor F. L. Wren has been promoted to a professorship of the teaching of mathematics at the George Peabody College for Teachers.

Dr. S. D. Zeldin has been promoted to an assistant professorship of mathematics at the Massachusetts Institute of Technology.

The following appointments to instructorships in mathematics are announced:
Brooklyn College, Miss Margaret M. Young;
Brown University, Mr. Max Astrachan;
University of Chicago, Dr. C. W. Mendel, Dr. W. T. Reid;
Columbia University, Dr. A. C. Berry;
Cornell University, Mr. A. H. Black;
Hunter College, Miss Polly P. Nelson;
Long Island University, Mr. K. G. Fuller;
Marquette University, Mr. Stephen Lewandowski;
Princeton University, Mr. J. L. Vanderslice;
Stanford University, Mr. H. M. Bacon;
Trinity College, Mr. W. H. Mitchell;
Wells College, Miss Nancy Cole.

Professor R. K. Butchart, of Raffles College, Singapore, died March 30, 1931.

Professor E. P. Culverwell, of Trinity College, Dublin, died April 17, 1931, at the age of seventy-five.

Professor J. E. Edwards, principal and professor of mathematics and physics at Queen's College, London, died May 16, 1931, at the age of seventy-seven.

Dr. Isidor Fröhlich, emeritus professor of theoretical physics at the University of Budapest, is dead.

Dr. Lucius Hanni, of the University of Graz, is dead.

Professor R. S. Heath, of the University of Birmingham, died April 15, 1931, at the age of seventy-two.

Dr. Eugen Meyer, professor of mechanics at the Berlin Technical School' died December 31, 1930, at the age of sixty-one.

Mr. Norifumi Okamoto, known for his work in the history of Japanese mathematics, died February 17, 1931.

The death is announced of Dr. Wilhelm Valentiner, professor of astronomy at the University of Heidelberg.

Professor Aurel Voss, of the University of Munich, is dead.

Canon J. M. Wilson, of Petersfield, formerly lecturer in mathematics at Cambridge, died April 15, 1931, at the age of ninety-four.

Mr. Edward Bright, of Sandwich, Cape Cod, died March 17, 1931. Mr. Bright had been a member of the American Mathematical Society since 1926.

Professor I. P. Church, emeritus professor of civil engineering at Cornell University, died May 7, 1931, at the age of eighty.

Dr. A. A. Himwich, a physician of New York City, died April 18, 1931, at the age of sixty-nine. Dr. Himwich had been a member of the American Mathematical Society since 1898.

Professor A. A. Michelson, of the University of Chicago, the distinguished physicist, died May 9, 1931, at the age of seventy-eight.

Professor W. A. Zehring, of Purdue University, died May 1, 1931, at the age of fifty-five. Professor Zehring had been a member of the American Mathematical Society since 1911.