NOTES

The concluding number of volume 30 of the Transactions of this Society (October, 1928) contains the following papers: *Some non-linear problems in approximation*, by D. Jackson; *Second-order differential systems with integral and k-point boundary conditions*, by W. M. Whyburn; *Analytic functions of hypercomplex variables*, by P. W. Ketchum; *Concerning limiting sets in abstract spaces*, by R. G. Lubben; *Riesz summability for double series*, by F. M. Mears; *The inverse problem of the calculus of variations in higher space*, by D. R. Davis; *Types of motion of the gyroscope*, by A. H. Copeland; *The invariant integral and the inverse problem in the calculus of variations*, by T. H. Rawles; *The projective differential geometry of systems of linear homogeneous differential equations of the first order*, by E. P. Lane; *The behavior of a boundary value problem as the interval becomes infinite*, by W. E. Milne; *The second derivative of a polygenic function*, by E. Kasner; *Diophantine equations in division algebras*, by R. G. Archibald; *On the degree of approximation to an analytic function by means of rational functions*, by J. L. Walsh; *Existence and oscillation theorems for non-linear differential systems of the second order*, by W. M. Whyburn. The Index of volumes 21–30 (1920–28) is bound with this number.

The concluding number of volume 50 of the American Journal of Mathematics (October, 1928) contains: *Affinely connected function space manifolds*, by A. D. Michal; *A theorem concerning the affine connection*, by T. Y. Thomas; *Concerning subsets of a continuous curve which can be connected through the complement of the continuous curve*, by W. L. Ayres; *Admissible numbers in the theory of probability*, by A. H. Copeland; *The differential invariants of inversive geometry*, by B. C. Patterson; *Expansions of the Neumann type in terms of products of Bessel functions*, by G. Stevenson; *Canonical forms for ordinary homogeneous linear differential equations of the second order with periodic coefficients*, by E. Swift; *Periodic orbits of three finite masses about the equilateral triangle points*, by H. E. Buchanan; *The problem of plane involutions of order $t>2$*, by F. R. Sharpe. A portrait of Goursat is bound with this number.

Professor G. D. Birkhoff of Harvard University delivered a lecture on *The mathematical basis of art* at the Ohio State University on December 3, 1928.

Professor E. R. Hedrick, Editor-in-Chief of this Bulletin, visited and lectured at the following institutions during November and December, 1928: University of Missouri, November 26; Ohio State University, November 27–28; University of Cincinnati, November 30–December 3; University of Kentucky, December 4; Oberlin College, December 5–6; University of Michigan, December 7; University of Wisconsin, December 10; Northwestern University, December 11; University of Indiana, De-

cember 12; University of Pittsburgh, December 13–17; University of West Virginia, December 18; University of Pennsylvania, December 19.

A new journal entitled Boletín del Seminario Mathemático Argentino has been founded, under the editorship of Professor J. Rey Pastor. The first number appeared in September, 1928.

The Société Mathématique Suisse has founded a new mathematical journal, the Comentarii Mathematici Helvetici; Professor Andreas Speiser, of the University of Zurich, is editor-in-chief. The journal is published by Orell-Füssli, of Zurich.

On the occasion of the meeting of the British Association for the Advancement of Science at Glasgow, the University of Glasgow conferred honorary doctorates on Sir William Bragg, president of the Association, and Professor P. Zeeman, of the University of Amsterdam, among others. The Association will hold its summer meeting of 1929 in South Africa, at Cape Town, Johannesburg, and Pretoria.

At the thirteenth annual meeting of the Optical Society of America, held in Washington, October 31 to November 3, 1928, under the joint auspices of that society and the Bureau of Standards, was celebrated the semicentennial of the publication of Professor A. A. Michelson's first communication on the velocity of light. On this occasion, Professor Michelson and his collaborators, Messrs. Pease and Pearson, delivered an address on *Results of repetition of the Michelson-Morley experiment.*

The professors and students of the Faculty of Sciences of the University of Turin have placed a commemorative medallion in honor of the late Professor Corrado Segre in one of the rooms of the Mathematical Institute of the University.

The Sacchetti Prize designed to acknowledge eminent scientific work of the teaching staff of the University of Bologna has been awarded to Professor S. Pincherle, who has retired.

Sir Ernest Rutherford has been elected a foreign honorary member and Professor Erwin Schrödinger a foreign corresponding member of the Vienna Academy of Sciences.

Professor Raymond Pearl, of Johns Hopkins University, has been elected president of the International Union for the Study of Demographic Problems.

The following have been appointed to National Research Fellowships in mathematics for 1928–29: A. A. Albert, W. L. Ayres, F. R. Bamforth, Theodore Bennett, Alonzo Church, T. F. Cope, C. M. Cramlet, Jesse Douglas, D. A. Flanders, J. J. Gergen, M. S. Knebelman, Lincoln LaPaz, Morris Marden, T. W. Moore, Hillel Poritsky, N. E. Rutt, I. M. Sheffer, Marie J. Weiss. Messrs. Ayres, Church, and Douglas hold fellowships supported by the International Education Board.

Professor L. Fantappié, of the University of Cagliari, has been transferred to the chair of algebraic analysis in the University of Palermo.

Associate Professor J. Lense, of the Munich Technical School, has been promoted to a full professorship of mathematics.

Professor B. Levi, of the University of Parma, has been transferred to the chair of theory of functions in the University of Bologna.

Dr. G. Mammana has been appointed associate professor of calculus in the University of Cagliari.

Associate Professor R. Ortvay, of the University of Szeged, has been appointed associate professor of theoretical physics at the University of Budapest.

Professor Johann Radon, of the University of Erlangen, has been appointed professor of mathematics at the University of Breslau.

Dr. C. Weber has been appointed professor of mechanics at the Dresden Technical School.

Professor Gregor Wenzel, of the University of Leipzig, has been appointed professor of theoretical physics at the University of Zurich.

Mr. P. T. Copp has been appointed head of the department of mathematics at Valparaiso University.

Dr. Mary G. Haseman has been appointed professor of mathematics at Hartwick College, Oneonta, N. Y.

Associate Professor L. S. Johnston, of Pennsylvania State College, has been appointed head of the department of engineering mathematics at the University of Detroit.

Assistant Professor J. R. Kline has been promoted to a full professorship at the University of Pennsylvania.

Dr. O. J. Peterson has been appointed head of the department of mathematics at the State Teachers' College at Emporia, Kansas.

Mr. M. R. Richardson has been appointed assistant professor of mathematics at the Georgia School of Technology.

Dr. W. C. Risselman has been appointed assistant professor of mathematics at the University of Pittsburgh.

Assistant Professor J. B. Scarborough, of the United States Naval Academy, has been promoted to an associate professorship of mathematics.

During the second half of the present academic year, beginning about February 1, Professor H. W. Tyler, of the Massachusetts Institute of Technology, will be on leave of absence in Washington, D.C., in order to establish there a permanent office of the American Association of University Professors, of which he has acted as Secretary for many years.

Dr. John Williamson has been appointed associate in mathematics at Johns Hopkins University.

The following appointments to instructorships in mathematics are announced:
George Washington University, Mr. E. W. Woolard of the United States Weather Bureau;
University of Michigan, Mr. P. M. Swingle;
Northwestern University, Mr. R. H. Bardell;
Pennsylvania State College, Messrs. L. T. Dunlap, W. O. Gordon, J. A. Hamilton, P. V. Kunkel, and R. E. Peterson;
St. John's College, Mr. G. C. Vedova.

Professor Richard Birkeland, of the University of Oslo, died April 10, 1928, at the age of forty-nine.

Professor Victor Eberhard, of the University of Halle, died April 28, 1928, at the age of sixty-seven.

Mr. Jun Hirai, of the Shizuoka High School, has died.

Professor O. Henrici, retired, of the London Technical College, has died, at the age of eighty-eight.

Professor E. Wiechert, of the University of Göttingen, has died at the age of fifty-seven.

Dr. Wilhelm Wien, professor of physics at the University of Munich, died August 30, 1928, at the age of sixty-five.

Professor R. Sterneck, of the University of Graz, has died, at the age of fifty-seven.

Professor H. B. Fine, of Princeton University, was fatally injured by an automobile on the evening of Friday, December 21, and died about 1 A.M. on Saturday, December 22, 1928, at the age of seventy. He had been a member of the American Mathematical Society since 1891, and was president of the Society during the years 1911–1912.

Miss Marion Reilly, of Bryn Mawr College, died in January, 1928. Miss Reilly had been a member of the American Mathematical Society since 1913.

Professor C. D. Rice, of the University of Texas, died May 28, 1928, at the age of sixty-five. Professor Rice had been a member of the American Mathematical Society since 1920.

Professor Alexander Ziwet, of the University of Michigan, died November 18, 1928. He had been a member of the American Mathematical Society since 1891, and had served for many years as a member of the board of editors of this Bulletin.