NOTES.

The twenty eighth summer meeting of the American Mathematical Society will be held at Wellesley College, Wellesley, Massachusetts, on Wednesday, Thursday, and Friday, September 7–9. It will be preceded by the summer meeting of the Mathematical Association of America. A joint session of the two organizations has been arranged for the afternoon of Wednesday, September 7, with two speakers on phases of the Theory of Relativity. The usual joint dinner will be on Wednesday evening.

The regular sessions will be held in Founders' Hall. Tower Court will be open for the accommodation of members and friends, a separate wing being assigned to ladies and married couples. The Hall in this building will be available for social purposes during the meetings. General social functions and an excursion will be arranged.

Wellesley is fifteen miles from Boston, on the main line of the Boston and Albany Railroad. There is frequent train service from Boston as well as from Worcester and the West.

Titles and abstracts of papers intended for presentation at the meeting should be in the hands of the secretary by August 8, in order to appear on the printed program. Papers received after that date can be presented only as time permits. This announcement replaces the preliminary notice issued in the past. The attention of members is invited to the fact that no other preliminary notice will be issued.

The Division of Physical Sciences of the National Research Council was held in Washington on Wednesday, April 20. The following officers were elected for the ensuing year: chairman, Professor H. G. Gale; vice-chairman, professor E. P. Lewis; executive committee, Professors R. A. Millikan, Augustus Trowbridge, O. Veblen, John Zelleny. As members-at-large, Professors E. F. Nichols, S. W. Stratton, and G. W. Stewart were elected. The appointment of Professor E. B. van Vleck to succeed Professor H. S. White as one representative of the American Mathematical Society was announced. Professor L. E. Dickson reported for the American Branch of the International Mathematical Union that an invitation had

been extended by the American Branch at the Strasbourg meeting to hold the next International Congress of Mathematics in America, and that this invitation had been accepted. It is therefore presumed that such a Congress will be held in America in the year 1924 or as soon thereafter as is feasible. A similar report was made by Professor Dickson to the Council of the American Mathematical Society at its meeting on Friday evening, April 22, in New York.

In January, 1921, the National Association of German Mathematical Societies and Clubs was founded at Göttingen, the charter members including the German Mathematical Society, the Society for the Advancement of Mathematical and Scientific Education, the Mathematico-Scientific Society of Württemburg, and the mathematical societies of Berlin, Vienna, Hamburg, Göttingen, and Aachen. It is desired to unite in this association all mathematical societies of German speaking countries, whether their aim is primarily educational or scientific.

The newly founded Vereinigung der Freunde und Förderer des Positivistischen Idealismus announces in its organ, the ANNALEN DER PHILOSOPHIE, a prize of 5000 Marks for a paper on the following subject: *The relation of Einstein's relativity theory to modern philosophy, with special reference to the philosophy of "As-If."* Further information may be obtained from the editor of the ANNALEN DER PHILOSOPHIE, Dr. Raymond Schmidt, Fichtestrasse 13, Leipzig.

The American Association for the Advancement of Science has granted the sum of one hundred fifty dollars to Professor S. Lefschetz, of the University of Kansas, in support of his work in algebraic geometry.

Cambridge University has awarded Smith's prizes to L. A. Pars, of Jesus College, for an essay on *The general theory of relativity*, and to W. M. H Greaves, for an essay on *Periodic orbits in the problem of three bodies*.

The Albert medal of the Royal Society of Arts has been conferred on Professor A. A. Michelson, of the University of Chicago, for his discovery of a natural constant which has provided a basis for a standard of length.

The University of Dublin has conferred honorary doctorates of science on Professor Emile Borel, of the Sorbonne, and Professor A. A. Michelson, of the University of Chicago.

Professor E. W. Brown, of Yale University, has been elected correspondent of the Paris Academy of Sciences in the section of astronomy, as successor to the late Professor E. C. Pickering, and Sir Ernest Rutherford has been elected correspondent in the section of physics, as successor to Professor A. A. Michelson, elected foreign associate.

At the University of Bonn, Associate Professor H. Beck has been promoted to a full professorship of mathematics. Professor H. Hahn has resigned, to accept a professorship of mathematics at the University of Vienna.

Professor L. Bieberbach, of the University of Frankfurt a. M., has been appointed successor to Professor C. Carathéodory at the University of Berlin.

Dr. H. Dingler and Dr. A. Rosenthal have been promoted to associate professorships at the University of Munich.

Professor E. Hellinger has been promoted to a full professorship of mathematics at the University of Frankfurt a. M.

Dr. L. Lichtenstein has been appointed honorary professor of mathematics at the Berlin Technical School.

At the Darmstadt Technical School, Dr. E. Naetsch has been appointed full professor of analytic geometry. Professor L. Henneberg has retired from active teaching.

Dr. J. Nielsen, of the University of Hamburg, has been appointed to a professorship at the Breslau Technical School.

Professor L. Prandtl, of the University of Göttingen, has been appointed professor of technical mechanics at the Munich Technical School.

Professor J. Thomae, of Jena, celebrated his eightieth birthday on December 11, 1920.

Dr. V. Geilen has been appointed lecturer in applied mathematics at the University of Münster.

Dr. W. Lorey has been appointed lecturer on the mathematics of insurance at the University of Leipzig.

Dr. W. Sternberg has been appointed privat docent in mathematics at the University of Heidelberg.

Dr. G. Pólya has been promoted to a professorship at the Zurich Polytechnikum.

Professor René Granier, of the University of Poitiers, has

at his own request been transferred from the chair of theoretical and applied mechanics to that of the differential and integral calculus.

Professor A. S. Eddington has been elected president of the Royal Astronomical Society.

The council of St. John's College, Cambridge, has appointed Dr. T. J. I'A. Bromwich prælector in mathematical science.

Associate Professor W. A. Manning has been promoted to a full professorship of mathematics at Stanford University.

Professor Frank Morley of Johns Hopkins University is now in England on leave of absence for the second semester of the current year.

Professor Albert Einstein will deliver a course of five lectures on relativity and gravitation theory at Princeton University on May 9–13. He also delivered lectures at Columbia University on April 16, and at the College of the City of New York on April 18–21.

Professor A. von Oettingen died at the age of eighty-four years.

The death is reported of Professor M. Petzold, of the Hanover Technical School.

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

AMODEO (F.). Le ricerche di un matematico napoletano del settecento su alcune teoremi di Archimede e sulle loro estensioni. Napoli, R. Accademia delle Scienze fisiche e matematiche, 1920.

BEHRENS (G.). Die Prinzipien der mathematischen Logik bei Schröder, Russell und König. (Diss., Kiel.) Hamburg, Druck von Berngrüber und Henning, 1918. 8vo. 65 pp.

FAWDRY (R. C.). Coordinate geometry (plane and solid) for beginners. London, Bell, 1921. 8 + 215 pp. 5s.

GLAUSE (H.). Geometrischer Beweis der Ergänzungssätze zum bikubischen Reziprozitätsgesetz. (Diss., Kiel.) Altona, Druck von Hammerich und Lesser, 1918. 8vo. 61 pp.

HAGSTRÖM (K. G.). Der Begriff der statistischen Funktion. (Diss.) Uppsala, Almqvist och Wiksell, 1919. 8vo. 52 pp.