

d'astronomie théorique, contenant l'exposition du calcul des perturbations planétaires et lunaires et son application à l'explication et à la formation des tables astronomiques," by ABEL SOUCHON.

THE *Revue générale des sciences pures et appliquées* for November 15 contains a full report of the address of Professor POINCARÉ, "The relations between pure analysis and mathematical physics," prepared for the international mathematical congress at Zürich. Among the articles of interest to mathematicians which have appeared in this journal during 1897, are one by JULES TANNERY on mathematical infinity, one by Professor EMILE PICARD on the work of Galois, and a report of the Zürich congress by EMILE BOREL. We observe also two other articles by Professor POINCARÉ, one on the ideas of Hertz in mechanics, the other an annual report on the progress of physics.

PROFESSOR HENRY S. PRITCHETT, formerly head of the department of astronomy at Washington University, St. Louis, and recently appointed Superintendent of the U. S. Coast and Geodetic Survey, assumed the duties of his new office on December 1.

PROFESSOR E. S. HOLDEN, director of the Lick observatory, has resigned. Professor J. M. SCHAEBERLE has been appointed acting director.

THE REV. GEORGE M. SEARLE has resigned as director of the astronomical observatory of the Catholic University of America, Washington, and Mr. Alfred Doolittle has been appointed to succeed him.

NEW PUBLICATIONS.

I. HIGHER MATHEMATICS.

BEMAN (W. W.). A chapter in the history of mathematics. An address by vice-president W. W. Beman, chairman of section A, before the section of mathematics and astronomy, American Association for the Advancement of Science, Detroit meeting, 1897. (*Proceedings of the American Association for the Advancement of Science*, vol. 46, 1897.) Salem, Mass., 1897. 8vo. 20 pp.

ENGEL (F.). See STÄCKEL (P.).

JAHRBUCH über die Fortschritte der Mathematik, begründet von C. Ohrtmann, herausgegeben von E. Lampe. Vol. 26 : Jahrgang 1895. (In 3 Heften.) Heft 2. Berlin, Reimer, 1897. 8vo. Pp. 529-784. Mk. 6.40

LAMPE (E.). See JAHRBUCH.