NOTES.

THE twenty-third annual meeting of the American Mathematical Society will be held at Columbia University on Wednesday and Thursday, December 27–28, 1916, in connection with the meeting of the American association for the advancement of science. At this meeting President ERNEST W. BROWN will deliver his presidential address, the subject of which will be "The relation of mathematics to the natural sciences." Titles and abstracts of papers intended for presentation at this meeting should be in the hands of the Secretary by December 13. Abstracts to be printed in advance of the meeting should be sent in by December 6.

A NEW edition of the List of Officers and Members of the Society is now in preparation and will be issued early in January. Blanks for furnishing necessary information have been sent to the members. A prompt response will contribute materially to the correctness and completeness of the List.

THE first summer meeting of the Mathematical Association of America was held under the presidency of Professor E. R. HEDRICK at the Massachusetts Institute of Technology, Cambridge, Mass., on Friday and Saturday, September 1–2, thus immediately preceding the summer meeting of the American Mathematical Society. The attendance numbered 126, including 110 members of the Association. The programme included the following papers: E. V. HUNTINGTON: "The teaching of elementary dynamics"; D. E. SMITH: "The history of mathematical recreations"; J. N. VAN DER VRIES: "Combined courses in mathematics for college freshmen"; F. S. WOODS: "Combined courses in mathematics for freshmen in technical schools." An announcement of plans was made by the committee on mathematical requirements, and a preliminary report was received from the bureau of information. The dinner on Friday evening was attended by about 80 members and friends. The Association will hold its next meeting at Columbia University on Friday and Saturday, December 29–30.

THE sixty-ninth meeting of the American association for

the advancement of science will be held in New York during the week December 26–30 under the presidency of Dr. C. R. VAN HISE. Professor L. P. EISENHART is vice-president, and Professor F. R. MOULTON secretary of Section A.

THE British association for the advancement of science held its annual meeting at Newcastle September 5–9, under the presidency of Sir ARTHUR EVANS. Professor A. N. WHITEHEAD was president of Section A: mathematical and physical science. Professor Whitehead's address before the section, on. "The organisation of thought," recently appeared in *Science* (September 22).

THE closing (October) number of volume 38 of the *American Journal of Mathematics* contains the following papers: "Conditions for the complete reducibility of groups of linear substitutions," by HENRY TABER; "On sextic surfaces having a nodal curve of order 8," by C. H. SISAM; "A theorem connected with irrational numbers," by W. D. MACMILLAN; "On the representation of arbitrary functions by definite integrals," by W. B. FORD; "Metric properties of nets of plane curves," by H. R. KINGSTON; "On a special elliptic ruled surface of the ninth order," by H. C. GOSSARD.

ON the occasion of his seventieth birthday, December 7, 1915, Professor A. VOSS, of the University of Munich, received from the Munich technical high school the honorary degree of doctor of technical sciences.

PROFESSOR M. PASCH, of the University of Giessen, celebrated the fiftieth anniversary of his doctorate on August 21, 1915. On this occasion the University of Breslau renewed his diploma.

THE birthplace of WEIERSTRASS in Osterfelde in Westphalia has recently been marked by a memorial tablet.

DEAN T. F. HOLGATE, of Northwestern University, has been elected ad interim president of the University.

PROFESSOR J. J. LUCK, of Vanderbilt University, has been appointed adjunct professor of mathematics in the University of Virginia.

MR. C. H. CLEVENGER has been appointed instructor in mechanics and mathematics in the school of mines of the University of Minnesota.

MR. C. N. REYNOLDS has been appointed instructor in mathematics at Wesleyan University.

DR. P. R. RIDER has been appointed instructor in mathematics in Washington University.

MR. J. J. TANZOLA, of Columbia University, has been appointed instructor in mathematics in the U. S. Naval Academy.

AT Dartmouth College, Dr. C. H. FORSYTH, of the University of Michigan, has been appointed instructor in mathematics. Dr. F. J. MCMACKIN has resigned his instructorship in mathematics to engage in high school work.

PROFESSOR F. PRYM, of the University of Würzburg, died December 15, 1915, at the age of seventy-four years.

PROFESSOR P. DUHEM, of the University of Bordeaux, died in September at the age of sixty-seven years.

THE death is announced of Dr. William ESSON, Savilian professor of mathematics in the University of Oxford, at the age of eighty-eight years.

PROFESSOR S. B. MACLAREN, of University College, Reading, died August 14, 1916, from wounds received in battle.

PROFESSOR L. L. CONANT, of the Worcester Polytechnic Institute, was killed in a street accident on October 11, 1916, at the age of fifty-nine years. Professor Conant had been a member of the American Mathematical Society since 1892.