

THE DETROIT MEETING OF THE AMERICAN  
ASSOCIATION FOR THE ADVANCEMENT  
OF SCIENCE.

THE forty-sixth annual meeting of the American Association for the Advancement of Science was held at Detroit, August 9-16. There were 290 members and associates registered, including over twenty foreign scientists.

The officers of Section A were as follows: Vice-President, W. W. Beman; Secretary, J. McMahon; Press Secretary, P. A. Lambert; Councillor, E. W. Hyde; Sectional Committee, W. W. Beman, J. McMahon, A. Macfarlane, W. F. Durand, J. E. Kershner, W. S. Pritchett; Member of Nominating Committee, A. Ziwet; Committee to Nominate Officers of Section, W. W. Beman, J. McMahon, A. Hall, Jr., R. S. Woodward, A. Macfarlane.

The Vice-President delivered an address "On a chapter in the history of mathematics."

The following papers were presented:—

- (1) "A problem in substitution-groups." By Dr. G. A. MILLER, Ann Arbor, Mich.
- (2) "Continuous groups of spherical transformations in space." By Professor H. B. NEWSON, Lawrence, Kans.
- (3) "Treatment of differential equations by approximate methods." By Professor W. F. DURAND, Ithaca, N. Y.
- (4) "Commutative matrices." By Professor J. B. SHAW, Jacksonville, Ill.
- (5) "On the theory of the quadratic equation." By Professor A. MACFARLANE, Lehigh University, South Bethlehem, Pa.
- (6) "A new principle in solving certain linear differential equations that occur in mathematical physics." By Professor A. MACFARLANE, Lehigh University, South Bethlehem, Pa.
- (7) "Condition that the line common to  $n-1$  planes in an  $n$ -space may pierce a given quadric surface in the same space." By Dr. VIRGIL SNYDER, Ithaca, N. Y.
- (8) "The psychology of the personal equation." By Professor T. H. SAFFORD, Williamstown, Mass.
- (9) "Compound determinants." (Preliminary communication.) By Professor W. H. METZLER, Syracuse, N. Y.
- (10) "Waters within the earth and laws of rainflow." By W. S. AUCHINCLOSS, C.E. Philadelphia, Pa.
- (11) "On the secular motion of the earth's magnetic