notably affected the granite. As judged by the mode of occurrence of the gabbro stock, the stoping hypothesis recently advocated by Daly or the hypothesis of marginal assimilation might be applied to account for the more acidic border phase of the gabbro, but the sharp contact of the gabbro against the granite would seem to preclude the possibility of accounting for the more basic contact zones of the country (granite) rock on the basis of actual assimilation of some of the granite by the gabbro. WILLIAM J. MILLER

SOCIETIES AND ACADEMIES

THE AMERICAN MATHEMATICAL SOCIETY

THE nineteenth summer meeting of the American Mathematical Society was held at the University of Pennsylvania on Tuesday and Wednesday, September 10–11, extending through two sessions on Tuesday and a morning session on Wednesday. Twenty-nine members were in attendance. Ex-President H. S. White occupied the chair, being relieved by Professors E. S. Crawley and E. W. Davis. The council announced the election of the following new members: Professor W. A. Bratton, Whitman College; Professor Florence P. Lewis, Goucher College; Mr. Leslie MacDill, Indiana University; Professor H. W. March, University of Wisconsin; Mr. M. R. Richardson, University of Chicago; Dr. J. I. Tracey, Johns Hopkins University; Mr. H. S. Vandiver, Philadelphia, Pa. Five applications for membership were received.

On both days of the meeting luncheon was provided by the university. On Tuesday evening twenty-six of the members gathered at the usual dinner. The interval between the sessions was devoted to an inspection of the university grounds and buildings. On Wednesday afternoon several of the members made an automobile excursion about the city. At the close of the meeting a resolution was adopted expressing the thanks of the society for the generous hospitality of the university.

The following papers were read at this meeting:

R. D. Carmichael: ''On the theory of relativity: analysis of the postulates.''

F. H. Safford: ''An irrational transformation of the Weierstrass γ-function curves.''

E. L. Dodd: ''The least square method grounded with the aid of an orthogonal transformation.''

E. L. Dodd: ''The probability of the arithmetic mean compared with that of certain other functions of the measurements.''

H. Blumberg: ''Algebraic properties of linear homogeneous differential expressions.''

J. E. Rowe: ''The relation between tangents and osculant $(n-1)$-ics of rational plane curves.''

H. H. Mitchell: ''Determination of all primitive collineation groups in $n (> 4)$ variables which contain homologies.''

Arthur Ranum: ''Lobachefskian polygons trigonometrically equivalent to the triangle.''

G. A. Miller: ''A few theorems relating to Sylow subgroups.''

Anna J. Pell: ''Linear equations in infinitely many unknowns.''

L. B. Robinson: ''Invariants of two tetrahedra.''

F. R. Sharpe: ''The Klein-Ciani quartic.''

F. R. Sharpe: ''The $(2-1)$ ternary correspondence with a sextic curve of branch points.''

F. R. Sharpe and F. M. Morgan: ''A type of quartic surface invariant under a non-linear transformation of period 3.''

S. Lefschetz: ''Double curves of surfaces projected from S_4.''

H. Blumberg: ''Sets of postulates for the rational, the real and the complex numbers.''

Oswald Veblen: ''Decomposition of an n-space by a polyhedron.''

F. N. Cole: ''The triad systems of thirteen letters.''

H. S. White: ''Triple systems as transformations, and their paths among triads.''

L. C. Karpinski: ''Augrim stones.''

Dunham Jackson: ''On the approximate representation of an indefinite integral.''

T. H. Gronwall: ''Some special boundary problems in the theory of harmonic functions.''

T. H. Gronwall: ''On analytic functions of constant modulus on a given contour.''

T. H. Gronwall: ''On series of spherical harmonics.''

O. E. Glenn: ''A general theorem on upper and lower limits for the order of a factor of a p-ary form with polynomial coefficients.''

E. J. Wilczynski: ''On a certain class of self-projective surfaces.''

The next meeting of the society will be held at Columbia University on Saturday, October 26. The San Francisco Section will meet at the University of California on the same day.

F. N. COLE,
Secretary