## OFFICIAL COMMUNICATIONS

Meetings of the Society have been fixed at the following times and places:

NEW YORK CITY, February 23, 1929.

Abstracts must be in the hands of Professor R. G. D. Richardson, Secretary of the Society, 501 West 116th St., New York City, not later than February 2. At the invitation of the program committee, Professor J. L. Walsh will deliver an address entitled The approximation of harmonic functions by harmonic polynomials and by harmonic rational functions.

New York City, March 29-30, 1929.

Abstracts must be in the hands of Professor R. G. D. Richardson, Secretary of the Society, 501 West 116th St., New York City, not later than March 8. At the invitation of the program committee, Professors G. H. Hardy and H. Weyl will present addresses on Modern work in the theory of ordinary trigonometric series, and on Fourier series and almost periodic functions from the standpoint of the theory of groups, respectively.

CHICAGO, March 29-30, 1929.

Abstracts must be in the hands of Professor M. H. Ingraham, Associate Secretary of the Society, University of Wisconsin, Madison, Wis., not later than March 8. At the invitation of the program committee, Professor E. B. van Vleck will deliver a symposium lecture on The location of the roots of polynomials and entire functions.

STANFORD UNIVERSITY, California, April 6, 1929.

Abstracts must be in the hands of Professor B. A. Bernstein, University of California, Berkeley, Calif., not later than March 5.

> R. G. D. RICHARDSON, Secretary of the Society.

Articles for insertion in the BULLETIN should be addressed to E. R. HEDRICK, Editor of the BULLETIN, University of California at Los Angeles Reviews should be sent to W. R. Longley, Yale University, New Haven, Conn. Notes should be sent to H. W. Kuhn, Ohio State University, Columbus, Ohio.

Subscriptions to the BULLFTIN, orders for back numbers, and inquiries in regard to non-delivery of current numbers should be addressed to the American Mathematical Society, Menasha, Wis., or 501 West 116th Street, New York.

The initiation fees (\$5.00) and the annual dues (\$6.00) of members of the Society are payable to the Treasurer of the Society, W. B. Fite, 501 West 116th Street, New York.

## WHOLE NUMBER 358

CONTENTS	PAGE
The October Meeting in New York. By Arnold	
Dresden	1
The Fifty-Sixth Regular Meeting of the San Francisco	
Section. By B. A. Bernstein	11
The Amherst Colloquium. By H. S. WHITE	16
The Heroic Age of Geometry. By J. L. COOLIDGE	19
The Critical Points of Functions and the Calculus of	
Variations in the Large. By MARSTON MORSE	38
The Forms $ax^2+by^2+cz^2$ which Represent All Integers.	
By L. E. Dickson	55
The Theory of Multiple Implication and its Application	
to the Generalized Problem of Epemenides. By H. B.	
Smith	60
Concerning Covariants of the Rational Plane Quartic	
Curve with Compound Singularities. By J. H.	
Neelley	67
On the Removal of Four Terms from an Equation by	
Means of a Tschirnhaus Transformation. By	
RAYMOND GARVER	73
Some Properties of Multi-Coherent Continua. By	
W. A. Wilson	78
Concerning Collections of Cuttings of Connected	
Point Sets. By G. T. Whyburn	87
Approximate Solutions of Certain General Types of	
Boundary Problems from the Standpoint of Inte-	
gral Equations. By R. A. WHELAN	105
Linnaeus Wayland Dowling—In Memoriam	123
Grassmann's Projective Geometry, Volume II. By	
John Eiesland	124
The New Riemann-Weber, Volume II. By H. J.	
Ettlinger	133
Shorter Notices	135
Notes	137
New Publications	141

For official Communications and Notices, see the inside of the back cover.