

OFFICIAL COMMUNICATIONS

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

COLUMBUS, OHIO, November 27-28, 1931.

Abstracts must be in the hands of Associate Secretary Mark H. Ingraham, University of Wisconsin, Madison, Wisconsin, not later than November 5. All abstracts received by that date will appear in the November issue of this Bulletin. By invitation of the program committee, Professor W. C. Graustein will speak on *Parallelism of Levi-Civita in classical differential geometry*, and Professor H. M. Gehman will speak on *Homeomorphic geometry*.

CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, November 28, 1931.

Abstracts must be in the hands of Associate Secretary T. M. Putnam, University of California, Berkeley, California, not later than October 31. All abstracts received by that date will appear in the November issue of this Bulletin. By invitation of the program committee, Professor R. L. Moore will deliver an address entitled *A set of Axioms for plane analysis situs*.

NEW ORLEANS, LOUISIANA, ANNUAL MEETING, December 28-31, 1931.

Abstracts must be in the hands of Associate Secretary Tomlinson Fort, 501 West 116th St., New York City, not later than November 28, 1931. Abstracts received by November 5 will appear in the November issue of the Bulletin. Professor E. R. Hedrick will deliver his retiring presidential address on the topic *Non-analytic functions of a complex variable*. There will be two joint sessions with the American Physical Society, and the ninth Josiah Willard Gibbs Lecture will be delivered at one of these by Professor P. W. Bridgman of Harvard University. At these joint sessions also, Professor G. A. Bliss will deliver his retiring vice-presidential address for Section A of the A.A.A.S., Professor W. F. G. Swann will read a paper by invitation, and Professor George D. Birkhoff will speak by invitation on the topic *Stability and instability of physical systems*. The Cole Prize in the Theory of Numbers will be awarded.

The usual February Meeting in New York City will be omitted.

NEW YORK CITY, March 25-26, 1932.

Abstracts are due by March 5, 1932.

CHICAGO, April 8-9, 1932.

Abstracts are due by March 18, 1932.

STANFORD UNIVERSITY, CALIFORNIA, April 9, 1932.

Abstracts are due by March 12, 1932.

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 BULLETIN, orders for back numbers, and inquiries in regard to non-delivery of current numbers should be addressed to the American Mathematical Society, 450-459 Ahnaip St., Menasha, Wis., or 501 West 116th St., New York.

The initiation fees and the annual dues of members of the Society (see this BULLETIN, p. 322, May, 1930; and the List of Officers and Members, October, 1930, p. 58), are payable to the Treasurer of the Society, Professor G. W. Mullins, 501 West 116th St., New York City.

WHOLE NUMBER 385

CONTENTS

	PAGE
Analytic Functions and Mathematical Physics. By G. Y. RAINICH.....	689
Application of Boolean Algebra to proving Consistency and Independence of Postulates. By B. A. BERNSTEIN..	715
A Non-Dense Plane Continuum. By J. H. ROBERTS....	720
On a Theorem of von Sterneck. By D. H. LEHMER.....	723
A Note on Cyclic Algebras of Order Sixteen. By A. A. ALBERT.....	727
An Acknowledgment. By G. W. STARCHER.....	730
On a Covariant Differentiation Process. By H. V. CRAIG	731
On the Divisibility of Locally Connected Spaces. By G. T. WHYBURN.....	734
Quadratic Addition Theorems for Even Functions. By J. D. GRANT.....	737
Transformations of Double Sequences with Application to Cesàro Summability of Double Series. By C. R. ADAMS	741
Useful Functions Associated with Rational Cubic Curves. By CLIFFORD BELL.....	749
An Application of Metric Geometry to Determinants. By L. M. BLUMENTHAL.....	752
Maps of Certain Cyclic Involutions on Two-Dimensional Carriers. By W. R. HUTCHERSON.....	759
The Distributive Laws for Homogeneous Linear Systems. By A. A. BENNETT.....	766
On Factoring Large Numbers. By D. H. LEHMER and R. E. POWERS.....	770
Division Algebras over an Algebraic Field. By A. A. ALBERT.....	777

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