

OFFICIAL COMMUNICATIONS

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

NEW YORK CITY, October 29, 1932.

Abstracts must be in the hands of Associate Secretary Tomlinson Fort, 501 West 116th St., New York City, not later than October 8. In order to be printed in the BULLETIN in advance of the meeting, abstracts must be in the hands of the Associate Secretary not later than September 7. By invitation of the program committee, Professor Jesse Douglas will speak on *The problem of Plateau*.

AMES, IOWA, November 25-26, 1932.

Abstracts must be in the hands of Associate Secretary M. H. Ingraham, University of Wisconsin, Madison, Wisconsin, not later than November 3. Abstracts received by that date will appear in the November issue of this BULLETIN. By invitation of the program committee, Professor E. B. Stouffer will speak on *Some canonical forms and their associated geometries*, and Professor H. W. March will speak on *Applications of the theory of elasticity to wood, a material of anisotropic structure*.

ATLANTIC CITY AND PRINCETON, NEW JERSEY, ANNUAL MEETING, December 27-30, 1932.

Abstracts must be in the hands of the Secretary of the Society, 501 West 116th St., New York City, not later than November 30, 1932. Abstracts received by November 7 will appear in the November issue of the BULLETIN. There will be a joint session of Section A and the Mathematical Association, at which time Dean L. P. Eisenhart will deliver his retiring presidential address on the topic *Some recent developments in differential geometry*, and Professor E. R. Hedrick will give his retiring address as Chairman of Section A of the A.A.A.S., his topic being *Tendencies in the logic of mathematics*. There will be a joint session with the Econometric Society and Sections A and K. The tenth Josiah Willard Gibbs Lecture will be delivered by Professor R. C. Tolman of the California Institute of Technology on the topic *Thermodynamics and relativity*. On the afternoon of December 30, at Princeton University, there will be a symposium on *Applications of the operational calculus to mechanics*, at which time Professor J. von Neumann of Princeton University and the University of Berlin will be the main speaker and Professor G. D. Birkhoff will lead the discussion.

NEW YORK CITY, February 25, 1932.

Abstracts must be in the hands of the Secretary of the Society, 501 West 116th St., New York City, not later than February 4, 1932. Abstracts received by January 7 will appear in the January issue of the BULLETIN.

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 397

CONTENTS

	PAGE
Point Sets in Three and Higher Dimensions and their Investigation by means of a Unified Analysis Situs. By R. L. WILDER.....	649
An Inversive Algorithm. By D. H. LEHMER.....	693
Note on Triple Systems. By R. D. CARMICHAEL.....	695
Quadratic Partitions: Paper IV. By E. T. BELL.....	697
Heptagonal Systems of Eight Lines in a Plane. By LOUISE D. CUMMINGS.....	700
A Note on Normal Division Algebras of Order Sixteen. By A. A. ALBERT.....	703
On Unit-Zero Boolean Representations of Operations and Relations. By B. A. BERNSTEIN.....	707
The Poisson Integral for Functions with Positive Real Part. By W. CAUER.....	713
Three Theorems applicable to Vibration Theory. By B. F. KIMBALL.....	718
A Note on Fermat's Last Theorem. By D. H. LEHMER....	723
On Certain Characteristics of k -Dimensional Varieties in r -Space. By B. C. WONG.....	725
On the Lexis Theory and the Analysis of Variance. By H. L. RIETZ.....	731
On Polynomials in a Galois Field. By LEONARD CARLITZ.	736
On Euler's Totient Function. By D. H. LEHMER.....	745
On the Relationship among the Diagonal Files of a Padé Table. By H. S. WALL.....	752

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