

OFFICIAL COMMUNICATIONS

MEETINGS OF THE SOCIETY

SUMMER MEETING: ITHACA, NEW YORK, August 20–23, 1946.

Abstracts must be in the hands of Associate Secretary T. R. Hollcroft, American Mathematical Society, 531 West 116th St., New York 27, N. Y., not later than July 13. Abstracts received by June 1 will appear in the July issue of this BULLETIN. The Colloquium Lectures on *Topology of smooth manifolds* will be given by Professor Hassler Whitney. By invitation of the Committee to Select Hour Speakers for Annual and Summer Meetings, there will be an address by Professor J. L. Doob entitled *Probability in function space*. Professor M. H. Stone will deliver the retiring presidential address entitled *Some general principles of functional representation*.

PRINCETON, NEW JERSEY, November 2, 1946.

Abstracts must be in the hands of Associate Secretary T. R. Hollcroft, American Mathematical Society, 531 West 116th St., New York 27, N. Y., not later than September 28. Abstracts received by June 1 will appear in the July issue of this BULLETIN.

AMES, IOWA, November 29–30, 1946.

Abstracts must be in the hands of Associate Secretary R. H. Bruck, 206 North Hall, University of Wisconsin, Madison 6, Wis., not later than October 25. Abstracts received by June 1 will appear in the July issue of this BULLETIN. By invitation of the Committee to Select Hour Speakers for Western Sectional Meetings, there will be an address by Dr. P. V. Reichelderfer entitled *The essential part of a surface*.

LOS ANGELES, CALIFORNIA, November 30, 1946.

Abstracts must be in the hands of Associate Secretary A. C. Schaeffer, Department of Mathematics, Stanford University, Stanford University, Calif., not later than October 26. Abstracts received by June 1 will appear in the July issue of this BULLETIN.

ANNUAL MEETING: SWARTHMORE, PENNSYLVANIA, December 26–29, 1946.

Abstracts must be in the hands of Associate Secretary T. R. Hollcroft, American Mathematical Society, 531 West 116th St., New York 27, N. Y., not later than November 21. Abstracts received by June 1 will appear in the July issue of this BULLETIN. Professor Subrahmanyan Chandrasekhar will deliver the Annual Gibbs Lecture on *The transfer of radiation in stellar atmospheres*. By invitation of the Committee to Select Hour Speakers for Annual and Summer Meetings, there will be an address by Professor A. P. Morse entitled *Derivatives and their integrals*.

J. R. KLINE, *Secretary of the Society*

Articles for insertion in the BULLETIN should be typewritten, double spaced, and the author should keep a complete copy. Papers in algebra and theory of numbers should be sent to SAUNDERS MACLANE, 474 Widener, Harvard University, Cambridge 38, Mass.; in analysis to R. E. LANGER, North Hall, University of Wisconsin, Madison 6, Wis.; in other fields to DEANE MONTGOMERY, Institute for Advanced Study, Princeton, N. J. Reviews should be sent to E. R. LORCH, Milbank Hall, Columbia University, New York 27, N. Y., and items for Notes to BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY, 531 West 116th St., New York 27, N. Y. All communications relating to the odd-numbered issues of the BULLETIN should be sent to E. B. STOFFER, University of Kansas, Lawrence, Kan., and all other communications to the editors should be addressed to the Managing Editor, SAUNDERS MACLANE, 474 Widener, Harvard University, Cambridge 38, Mass.

The initial fees and annual dues of members of the Society (see this BULLETIN, May, 1930, p. 322; and November, 1944, Part 2, p. 93) are payable to the Treasurer of the Society, B. P. GILL, 531 West 116th St., New York 27, N. Y.

CONTENTS

Vol. 52, No. 5

MAY, 1946

Whole No. 560

PART 1

	Page
George David Birkhoff and his Mathematical Work. By MARS- TON MORSE	357
Physics and the Wave Equation. By J. C. SLATER	392
The February Meeting in New York. By T. R. HOLLCROFT	401
Book Review	405
Notes	408
Abstracts of Papers	
Algebra and Theory of Numbers	414
Analysis	423
Applied Mathematics	432
Geometry	435
Logic and Foundations	438
Statistics and Probability	439
Topology	440
New Publications	448