

OFFICIAL COMMUNICATIONS

MEETINGS OF THE SOCIETY

CHICAGO, ILLINOIS, November 26–27, 1948.

Abstracts must have been in the hands of Associate Secretary J. W. T. Youngs, Indiana University, Bloomington, Ind., not later than October 15. By invitation of the Committee to Select Hour Speakers for Western Sectional Meetings, there will be an address by Professor P. R. Halmos entitled *Measurable transformations* and an address by Professor Saunders MacLane entitled *Duality for groups*.

LOS ANGELES, CALIFORNIA, November 27, 1948.

Abstracts must have been in the hands of Associate Secretary J. W. Green, University of California at Los Angeles, Los Angeles 24, Calif., not later than October 16. By invitation of the Committee to Select Hour Speakers for Far Western Sectional Meetings, there will be an address by Professor Herbert Busemann entitled *The geometry of Finsler spaces*.

ANNUAL MEETING: COLUMBUS, OHIO, December 28–30, 1948.

Abstracts must be in the hands of Associate Secretary J. W. T. Youngs, Indiana University, Bloomington, Ind., not later than November 16. The annual Gibbs Lecture, entitled *Ramifications, old and new, of the eigenvalue problem*, will be delivered by Professor Hermann Weyl. By invitation of the Committee to Select Hour Speakers for Annual and Summer Meetings, there will be an address by Professor Mark Kac entitled *Probability methods in some problems of analysis and theory of numbers*, an address by Professor A. S. Besicovitch entitled *Parametric surfaces*, and an address by Professor Lamberto Cesari entitled *Area and representation of surfaces*. Professor Einar Hille will deliver his retiring presidential address entitled *Lie theory of semi-groups of linear transformations*.

NEW YORK CITY, February 26, 1949.

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 January 14.

CHICAGO, ILLINOIS, February 26, 1949.

Abstracts must be in the hands of Associate Secretary J. W. T. Youngs, Indiana University, Bloomington, Ind., not later than January 14. By invitation of the Committee to Select Hour Speakers for Western Sectional Meetings there will be an address by Professor S. B. Myers entitled *Normed linear spaces of continuous functions*.

INTERNATIONAL CONGRESS OF MATHEMATICIANS, August 30–September 6, 1950.

By invitation of the American Mathematical Society, an International Congress will be held in Cambridge, Massachusetts, with Harvard University as principal host. In addition to sectional meetings for contributed papers, there will be Conferences in Algebra, Analysis, Applied Mathematics, and Topology. Communications should be addressed to the American Mathematical Society, 531 West 116th Street, New York 27, N. Y., U.S.A.

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

CONTENTS

Vol. 54, No. 11, Part 1 NOVEMBER, 1948 Whole No. 590

	Page
Mathematical Methods in Ancient Astronomy. By O. NEUGE- BAUER.	1013
The Summer Meeting in Madison. By R. H. BRUCK.	1042
Book Reviews.	1087
Notes.	1096
New Publications.	1104

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 NATHAN JACOBSON, Leet Oliver Memorial Hall, Yale University, New Haven, Conn.; 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. STOUFFER, University of Kansas, Lawrence, Kan., and all other communications to the editors should be addressed to the Managing Editor, R. E. LANGER, North Hall, University of Wisconsin, Madison 6, Wis.

The initial fees and annual dues of members of the Society (see this BULLETIN November, 1946, Part 2, p. 105; and May, 1947, p. 459) are payable to the Treasurer of the Society, B. P. GILL, 531 West 116th St., New York 27, N. Y.

GEORGE BANTA PUBLISHING COMPANY, MENASHA, WISCONSIN