

OFFICIAL COMMUNICATIONS

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

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

NEW YORK CITY, March 30-31, 1934.

Abstracts must be in the hands of Associate Secretary J. R. Kline, 501 West 116th St., New York City, not later than March 9. Abstracts received by the Secretaries by that date will appear in the March issue of the BULLETIN. By invitation of the program committee, there will be a symposium on *Algebraic geometry*, under the leadership of Professors A. B. Coble, Solomon Lefschetz, Oscar Zariski, and Virgil Snyder.

CHICAGO, ILLINOIS, April 6-7, 1934.

Abstracts must be in the hands of Associate Secretary M. H. Ingraham, University of Wisconsin, Madison, Wis., not later than March 9. Abstracts received by the Secretaries by that date will appear in the March issue of the BULLETIN. At this meeting, Professor R. E. Langer will give an address on *The asymptotic solution of linear ordinary differential equations*.

BERKELEY, CALIFORNIA, June 20, 1934.

Abstracts must be in the hands of Associate Secretary T. M. Putnam, University of California, Berkeley, Calif., not later than May 30. Abstracts received by the Secretaries by May 6 will appear in the May 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, September, 1932, p. 66), are payable to the Treasurer of the Society, Professor G. W. Mullins, 501 West 116th St., New York City.

WHOLE NUMBER 412

CONTENTS

	PAGE
The Thanksgiving Meeting in Pasadena. By T. M. PUTNAM.....	1
The Thanksgiving Meeting in Cincinnati. By M. H. INGRAHAM.....	4
Birkhoff on Aesthetic Measure. By C. A. GARABEDIAN....	7
Pappus's Collection. By DAVID EUGENE SMITH.....	11
Banach on Linear Operations. By J. D. TAMARKIN.....	13
Saks on Integration. By J. D. TAMARKIN.....	16
Shorter Notices.....	19
Notes.....	25
Abstracts of Papers.....	28
New Publications.....	59

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