

## OFFICIAL COMMUNICATIONS

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

NEW YORK CITY, February 25, 1933.

Abstracts must be in the hands of the Secretary of the Society, 501 West 116th St., New York City, not later than February 4, 1933. Abstracts received by January 7 will appear in the January issue of the BULLETIN. By invitation of the program committee, Professor F. R. Sharpe will deliver an address entitled *The algebraic theory of involutorial transformations*.

STANFORD UNIVERSITY, March 18, 1933.

Abstracts must be in the hands of Associate Secretary T. M. Putnam, University of California, Berkeley, California, not later than February 25. Abstracts received by that date will appear in the March issue of the BULLETIN.

NEW YORK CITY, April 14-15, 1933.

Abstracts must be received at the Office of the Society, 501 West 116th St., New York City, not later than March 24. Abstracts received by March 6 will appear in the March issue of the BULLETIN. A symposium on algebra is being arranged. The leading speakers will be Professor Oystein Ore, on *Abstract ideal theory and applications*, and Professor J. V. Uspensky, on *The theory of numbers and integral calculus*.

CHICAGO, April 14-15, 1933.

Abstracts must be in the hands of Associate Secretary Mark H. Ingraham, University of Wisconsin, Madison, Wisconsin, not later than March 25. Abstracts received by March 6 will appear in the March issue of the BULLETIN. Professor C. C. MacDuffee will deliver a symposium lecture on *Matrices with elements in a principal ideal ring*.

R. G. D. RICHARDSON, *Secretary of the Society*.

THIRTY-NINTH SUMMER MEETING, CHICAGO, June 19-24, 1933.

This meeting will be in conjunction with the meeting of the American Association for the Advancement of Science at the Century of Progress Exposition, but most of the actual sessions will be at the University of Chicago. Addresses will be delivered by Professors Lipót Fejér of the University of Budapest and Tullio Levi-Civita of the University of Rome. Other addresses and symposia in which American and foreign speakers will participate are being planned. The Mathematical Association of America will meet during the same week. Titles and abstracts of papers to be presented at this meeting should be in the hands of Associate Secretary Mark H. Ingraham, University of Wisconsin, Madison, Wisconsin, not later than May 20. Abstracts received before May 6 will appear in the May issue of this BULLETIN.

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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.