## OFFICIAL COMMUNICATIONS

On account of the greater delays in publication, abstracts will be required hereafter *four weeks* in advance of the summer meeting and of each of the two meetings held during the Christmas holidays, and *three weeks* in advance of each of the other meetings.

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

NEW YORK CITY, May 2, 1925.

Abstracts must be in the hands of the Secretary of the Society, Professor R. G. D. Richardson, 501 West 116th St., New York, not later than April 11.

THE SAN FRANCISCO SECTION, AT THE UNIVERSITY OF OREGON, EUGENE, OREGON, June 19, 1925.

Abstracts must be in the hands of the Secretary of the Section, Professor B. A. Bernstein, Berkeley, not later than May 29.

THE SUMMER MEETING AND COLLOQUIUM, AT CORNELL UNIVERSITY, ITHACA, N.Y., September 8-12, 1925.

Abstracts must be in the hands of the Secretary of the Society, Professor R. G. D. Richardson, 501 West 116th St., New York, not later than August 11.

NEW YORK CITY, October 31, 1925.

Abstracts must be in the hands of the Secretary of the Society, Professor R. G. D. Richardson, 501 West 116th St., New York, not later than October 10.

## 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, Southern Branch, University of California, Los Angeles, Calif. Reviews should be sent to W. R. Longley, Yale University, New Haven, Conn. Notes should be sent to R. W. Burgess, 501 West 116th Street, New York.

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, 501 West 116th Street, New York.

Advertising space is available in the Bulletin at \$16 per page, \$9 per half page, \$5 per quarter page, per issue. Address correspondence regarding advertising to H. L. Rietz, University of Iowa, Iowa City, Iowa.

Changes of address of members, exchanges, and subscribers should be communicated at once to the Secretary of the Society, R. G. D. RICHARDSON, 501 West 116th Street, New York.

The initiation fees (\$5.00) and annual dues (\$6.00) of members of the Society are payable to the Treasurer of the Society, W. B. Fite, 501 West 116th Street, New York.

## Whole Numbers 332-333

## **CONTENTS**

1	PAGE
The October Meeting in New York. By R. G. D. RICHARDSON	97
The October Meeting of the San Francisco Section. By B. A. Bernstein	110
The Seventeenth Regular Meeting of the Southwestern Section. By E. B. Stouffer	116
Remarks on the Foundations of Geometry. Presidential Address by Oswald Veblen	121
Ricci's Coefficients of Rotation. By HARRY LEVY	142
Sur les Valeurs Asymptotiques des Coefficients de Cotes. By J. Ouspensky	145
Functions with an Essential Singularity. By Philip Franklin	157
The Calculus of Variations. By Leonida Tonelli	163
Schouten on Ricci-Kalkül. By C. L. E. Moore	173
Shorter Notices	176
Notes	184
New Publications	189

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