

## OFFICIAL COMMUNICATIONS

### MEETINGS OF THE SOCIETY

CLEVELAND, OHIO, November 25–26, 1938.

Abstracts which were in the hands of Associate Secretary W. L. Ayres, University of Michigan, Ann Arbor, Mich., not later than October 28 appear in this November issue of the Bulletin. By invitation of the Program Committee, Professor C. C. MacDuffee will give an address entitled *Modules in algebraic fields* and Professor V. G. Grove will give an address entitled *A tensor analysis for a  $V_k$  in a projective space  $S_n$* .

LOS ANGELES, CALIFORNIA, November 26, 1938.

Abstracts which were in the hands of Associate Secretary T. M. Putnam, University of California, Berkeley, Calif., not later than October 29 appear in this November issue of the Bulletin.

ANNUAL MEETING: RICHMOND, VIRGINIA, December 27–28; WILLIAMSBURG, VIRGINIA, December 28–30, 1938.

Abstracts must be in the hands of Associate Secretary T. R. Hollcroft, 531 West 116th St., New York, N. Y., not later than November 22, 1938. Abstracts received not later than November 1 appear in this November issue of the Bulletin. At this meeting, the following addresses will be given:

At Richmond: *Intuition, reason, and faith in science* by Dean G. D. Birkhoff, retiring President of the American Association for the Advancement of Science; *Seismology from the mathematical viewpoint* by Professor W. D. Cairns, retiring chairman of Section A and Vice President of the A.A.A.S., at a joint session of Section A, Section E, the Society, and the Mathematical Association; *Mathematicians, and poetry and drama* by Professor R. C. Archibald, retiring Chairman of Section L and Vice President of the A.A.A.S., at a joint session of Section L, Section A, the Society, and the Mathematical Association.

At Williamsburg: *On certain abstract spaces* by Professor R. L. Moore, retiring President of the Society; *Fourier expansions of modular functions and theorems on partitions* by Professor H. A. Rademacher, by invitation of the Program Committee; a brief address by the recipient of the Bôcher Prize on the subject of the paper for which the Prize is to be awarded.

NEW YORK CITY, February 25, 1939.

Abstracts must be in the hands of Associate Secretary T. R. Hollcroft, 531 West 116th St., New York, N. Y., not later than January 27. Abstracts received on or before December 31 will appear in the January issue of the Bulletin. By invitation of the Program Committee, Professor R. P. Agnew will give an address entitled *Properties of generalized definitions of limit*.

R. G. D. RICHARDSON, *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 analysis or in algebra should be sent to L. M. GRAVES, University of Chicago, Chicago, Ill.; in other fields to P. A. SMITH, Barnard College, Columbia University, New York, N. Y. Reviews should be sent to TOMLINSON FORT, Lehigh University, Bethlehem, Pa., and items for Notes to H. W. KUHN, Ohio State University, Columbus, Ohio. All other communications to the editors should be addressed to the Managing Editor, D. R. CURTISS, Northwestern University, Evanston, Ill.

The initial 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, 1938, p. 75) are payable to the Treasurer of the Society, Professor B. P. Gill, Low Memorial Library, 531 West 116th St., New York, N. Y.

## CONTENTS

Vol. 44, No. 11      NOVEMBER, 1938      Whole No. 470

	Page
The Summer Meeting in New York. By T. R. HOLLCROFT . . .	745
The Chicago Conference and Seminar on Algebra. By A. A. ALBERT . . . . .	756
Shorter Notices . . . . .	758
Notes . . . . .	768
Abstracts of Papers . . . . .	772
New Publications . . . . .	791