

## OFFICIAL COMMUNICATIONS

### MEETINGS OF THE SOCIETY

#### COLUMBIA, MISSOURI, December 1–2, 1939.

Abstracts must be in the hands of Associate Secretary W. L. Ayres, University of Michigan, Ann Arbor, Mich., not later than November 3. Abstracts received by October 1 appear in this November issue of the Bulletin. By joint invitation of the Society and the University of Missouri, Professor E. W. Chittenden will give an address entitled *Topological functions* and Professor L. R. Ford will give an address entitled *Projective transformations in two complex variables*.

#### PASADENA, CALIFORNIA, December 2, 1939.

Abstracts must be in the hands of Associate Secretary T. M. Putnam, University of California, Berkeley, Calif., not later than November 4. Abstracts received by October 1 appear in this November issue of the Bulletin.

#### ANNUAL MEETING: COLUMBUS, OHIO, December 26–29, 1939.

Abstracts must be in the hands of Associate Secretary W. L. Ayres, University of Michigan, Ann Arbor, Mich., not later than November 21. Abstracts received not later than October 1 appear in this November issue of the Bulletin. The annual Gibbs Lecture will be given by Professor Theodore von Kármán of the California Institute of Technology. His title is *The engineer grappling with non-linear problems*. Professor J. R. Kline, retiring Chairman of Section A and Vice President of the American Association for the Advancement of Science, will give an address entitled *The Jordan curve theorem*. By invitation of the Program Committee, Professor D. H. Lehmer will give an address entitled *The application of Bernoulli polynomials to some problems in Diophantine analysis*.

#### NEW YORK CITY, February 24, 1940.

This meeting, previously cancelled, has been reinstated. 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 1 will appear in the January issue of the Bulletin. By invitation of the Program Committee, Professor B. O. Koopman will deliver an address entitled *The bases of probability*.

#### CHICAGO, ILLINOIS, April 12–13, 1940.

Abstracts must be in the hands of Associate Secretary W. L. Ayres, University of Michigan, Ann Arbor, Mich., not later than March 15. Abstracts received by February 1 will appear in the March issue of The Bulletin. Professor W. J. Trjitzinsky will deliver the symposium address entitled *General theory of functions of a complex variable*.

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 algebra and theory of numbers should be sent to A. A. ALBERT, University of Chicago, Chicago, Ill.; in analysis 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 VIRGIL SNYDER, 214 University Ave., Ithaca, N. Y., 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, TOMLINSON FORT, Lehigh University, Bethlehem, Pa.

The initial fees and the annual dues of members of the Society (see this BULLETIN, May, 1930, p. 322; 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. 45, No. 11      NOVEMBER, 1939      Whole No. 482

	Page
The September Meeting in Madison. By W. L. AYRES.....	801
Shorter Notices.....	812
Notes.....	826
Abstracts of Papers.....	829
New Publications.....	840