

## OFFICIAL COMMUNICATIONS

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

**ST. LOUIS, MISSOURI ANNUAL MEETING, December 31, 1935–January 3, 1936.**

This meeting will be held in conjunction with meetings of the A.A.A.S. and the Mathematical Association of America. Addresses will be delivered by Professor Szegő on *Some recent investigations concerning the sections of trigonometric and related series*, and by Professor Synge on *Tensorial methods in dynamics*. On Tuesday afternoon, at a joint session with the Mathematical Association and Section A of the A.A.A.S., Professor Carmichael will deliver his retiring address as Chairman of Section A, on *Linear differential equations of infinite order*. The Josiah Willard Gibbs Lecture will be delivered by Professor Vannevar Bush on the topic *Mechanical analysis*.

**NEW YORK CITY, February 29, 1936.**

Abstracts must be in the hands of Associate Secretary J. R. Kline, Low Library, Columbia University, New York City, not later than February 1. Abstracts received by the Secretaries on or before January 10 will appear in the January issue of this Bulletin. By invitation of the Program Committee, Professor E. Hopf will deliver an address entitled *On some metrically transitive systems*.

**NEW YORK CITY, April 10–11, 1936.**

Abstracts must be in the hands of Associate Secretary J. R. Kline, Low Library, Columbia University, New York City, not later than March 14.

**CHICAGO, ILLINOIS, April 10–11, 1936.**

Abstracts must be in the hands of Associate Secretary M. H. Ingraham, University of Wisconsin, Madison, Wisconsin, not later than March 14.

**BERKELEY, CALIFORNIA, April 11, 1936.**

Abstracts must be in the hands of Associate Secretary T. M. Putnam, University of California, Berkeley, California, not later than March 14.

**CAMBRIDGE, MASSACHUSETTS, SUMMER MEETING AND COLLOQUIUM, August 31–September 5, 1936.**

Abstracts must be in the hands of Secretary R. G. D. Richardson, Low Library, Columbia University, New York City, not later than July 27. The meeting will be held in connection with the celebration of the Harvard Tercentenary. A more detailed announcement will be printed in later issues.

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 Low Memorial Library, Columbia University, New York City.

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, 1934, p. 66), are payable to the Treasurer of the Society, Professor G. W. Mullins, Low Memorial Library, Columbia University, New York City.

## WHOLE NUMBER 435

### CONTENTS

|  | PAGE |
|--|------|
| On the Complex Roots of Algebraic Equations. By A. J. KEMPNER.....   | 809  |
| A Theorem on Higher Congruences. By LEONARD CARLITZ  | 844  |
| The Hilbert Space Postulates—A Further Reduction. By A. E. TAYLOR.....                                     | 847  |
| A Note on Lipschitz Classes. By E. S. QUADE.....   | 849  |
| A New Proof of the Equivalence of E. H. Moore. By J. P. BALLANTINE.....                                    | 853  |
| On the Bernoulli Distribution. By SOLOMON KULLBACK..   | 857  |
| On a Resultant connected with Fermat's Last Theorem. By EMMA LEHMER.....                                   | 864  |
| Correspondences connected with a Pencil of $n$ -ics. By A. R. WILLIAMS.....                                | 868  |
| Some Multiplication Theorems for the Nörlund Mean. By FLORENCE M. MEARS.....                               | 875  |
| On the Locus of an Analytic Equation in the Real Plane. By A. B. BROWN.....                                | 881  |
| A Partial Differential Equation connected with the Functions of the Parabolic Cylinder. By HARRY BATEMAN.. | 884  |
| A Generalization of the Bernoulli Polynomial of Order One. By B. F. KIMBALL.....                           | 894  |
| The Method of Moment Distribution for the Analysis of Continuous Structures. By LOUIS BRAND.....           | 901  |
| On Certain Higher Congruences. By LEONARD CARLITZ.   | 907  |
| A Differential Equation for Appell Polynomials. By I. M. SHEFFER.....                                      | 914  |
| On Some Extremal Properties of Trigonometric Polynomials with Real Roots. By J. GERONIMUS.....             | 924  |
| Linear Connections of Normal Space to a Variety in Euclidean Space. By C. B. TOMPKINS.....                 | 931  |

---

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