

OFFICIAL COMMUNICATIONS

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

**The usual February Meeting in New York City will be omitted.
NEW YORK CITY, March 25-26, 1932.**

Abstracts must be in the hands of Associate Secretary Tomlinson Fort, 501 West 116th St., New York City, not later than March 5. All such abstracts will appear in the March issue of the Bulletin. By invitation of the program committee, there will be a symposium on *Summability of series*, at which Professor Einar Hille will speak on *Summation of Fourier series*, Professor W. A. Hurwitz will speak on *General theorems on linear transformation of sequences*, and others will participate.

CHICAGO, April 8-9, 1932.

Abstracts must be in the hands of Associate Secretary Mark H. Ingraham, University of Wisconsin, Madison, Wisconsin, not later than March 18. All those received on or before March 6 will appear in the March issue of the Bulletin. By invitation of the program committee, Professor R. L. Wilder will deliver an address entitled *Point sets in three and higher dimensions and their investigation by means of unified analysis situs*.

On account of the fact that the Summer Meeting of the Society in 1932 will be held on the Pacific Coast, the meetings that were to have been held at Stanford University (April, 1932), at Seattle (June, 1932), and at Los Angeles (November, 1932) will be omitted.

LOS ANGELES, CALIFORNIA, SUMMER MEETING AND COLLOQUIUM, August 30-September 2, 1932.

Abstracts must be in the hands of Associate Secretary M. H. Ingraham, University of Wisconsin, Madison, Wis., not later than July 26. Abstracts received by July 7 will appear in the July issue, or an earlier issue, of this Bulletin. Professor J. F. Ritt will deliver a series of colloquium lectures on *Systems of algebraic differential equations*.

NEW YORK CITY, October 29, 1932.

Abstracts are due by October 8, 1932.

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 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, October, 1930, p. 58), are payable to the Treasurer of the Society, Professor G. W. Mullins, 501 West 116th St., New York City.

WHOLE NUMBER 389

CONTENTS

	PAGE
Note on the Discriminant Matrix of an Algebra. By L. E. BUSH.....	49
Apolarity in the Galois Field of Order 2^n . By A. D. CAMPBELL.....	52
A Class of Universal Functions. By GORDON PALL.....	56
The Plane Figure of Seven Real Lines. By H. S. WHITE.....	59
Polygenic Functions of Hypercomplex Variables. By P. W. KETCHUM AND TED MARTIN.....	66
On Finite and Infinite Completely Monotonic Sequences. By I. J. SCHOENBERG.....	72
On Surfaces in Space of r Dimensions. By B. C. WONG..	77
On the Compactness of the Space L_p . By J. D. TAMARKIN	79
Concerning Adjunctions to Algebras. By J. L. DORROH..	85
On the Rank of the Product of Certain Square Matrices. By W. O. MENGE.....	88
A Triad of Ruled Surfaces defined by Reciprocal Polars. By A. F. CARPENTER.....	95
Note on the Reducibility of Algebras without a Finite Base. By M. H. INGRAHAM.....	100
Hexagonal Systems of Seven Lines in a Plane. By LOUISE D. CUMMINGS.....	105
A Practical Method for the Modular Representation of Finite Operations and Relations. By B. A. BERNSTEIN and NEMO DEBELY.....	110
The Use of Fractional Integration and Differentiation for obtaining certain Expansions in Terms of Bessel Functions or of Sines and Cosines. By W. O. PENNELL....	115
On the Integration of Unbounded Functions. By W. M. WHYBURN.....	123
Reflections in Function Space. By L. S. KENNISON.....	131
An Extension of Lagrange's Equations. By C. A. SHOOK.	135

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