OFFICIAL COMMUNICATIONS

MEETINGS OF THE SOCIETY

POUGHKEEPSIE, NEW YORK, September 8–10, 1942.

Abstracts must be in the hands of Associate Secretary T. R. Hollcroft, 531 West 116th St., New York, N. Y., not later than August 4. Abstracts received by August 1 will appear in the September issue of this BULLETIN. The Colloquium Lectures on Topology of manifolds will be given by Professor R. L. Wilder. By invitation of the Program Committee, Professor W. L. Ayres will give an address entitled Transformations with periodic properties. There will be a joint symposium with the Institute of Mathematical Statistics entitled The applicability of mathematical statistics to war efforts, with the following speakers: Mr. H. F. Dodge, Professor John von Neumann, and Professor S. S. Wilks.

NEW YORK CITY, OCTOBER 31, 1942.

Abstracts must be in the hands of Associate Secretary T. R. Hollcroft, 531 West 116th St., New York, N. Y., not later than October 2. Abstracts received by August 1 will appear in the September issue of this BULLETIN.

NOTRE DAME, INDIANA, NOVEMBER 27–28, 1942.

Abstracts must be in the hands of Associate Secretary W. L. Ayres, Purdue University, Lafayette, Ind., not later than October 30. Abstracts received by October 1 will appear in the November issue of this BULLETIN. The annual Notre Dame Symposium will be held in connection with this meeting.

LOS ANGELES, CALIFORNIA, NOVEMBER 28, 1942.

Abstracts must be in the hands of Acting Associate Secretary A. D. Michal not later than October 31. Abstracts received by October 1 will appear in the November issue of this BULLETIN. By invitation of the Program Committee, Professor Harry Bateman will deliver an address entitled Some simple differential-difference equations and their related functions. There will be a symposium on applied mathematics.

ANNUAL MEETING: NEW YORK CITY, DECEMBER 28–30, 1942.

J. R. KLINE, 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, Columbia University, New York, N. Y. Reviews should be sent to VIRGIL SNYDER, 214 University Ave., Ithaca, N. Y., and items for Notes to BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY, 531 West 116th St., New York, N. Y. All other communications to the editors should be addressed to the Managing Editor, TOMLINSON FORT, Lehigh University, Bethlehem, Pa.

The initial fees and annual dues of members of the Society (see this BULLETIN May, 1930, p. 322; and May, 1941, pp. 337–338) are payable to the Treasurer of the Society, B. P. GILL, Low Memorial Library, 531 West 116th St., New York, N. Y.
CONTENTS

Vol. 48, No. 6 JUNE, 1942 Whole No. 513

Trends in research: The analytic number theory. By HANS
RADEMACHER. .............................................. 379

Normal varieties and birational correspondences. By OSCAR
ZARISKI. ..................................................... 402

On differentiation of integrals and approximate continuity.
By ARTHUR ROSENTHAL. .............................. 414

A note on Hilbert's operator. By H. Kober. .................. 421

The behavior of certain Stieltjes continued fractions near the
singular line. By H. S. WALL. ...........................(427

On local convexity in Hilbert space. By I. J. SCHOPENBERG. ... 432

On 3-dimensional manifolds. By C. E. CLARK. ............... 437

A linear transformation whose variables and coefficients are sets
of points. By S. T. SANDERS, JR. ....................... 440

A theorem on Lie groups. By DEANE MONTGOMERY and LEO
ZIPPIN. ..................................................... 448

A note on complementation in lattices. By L. R. WILCOX .... 453

Sufficient conditions that polynomials in several variables be
positive. By I. E. PERLIN. .............................. 458

On the mapping of n quadratic forms. By L. L. DINES ........ 467

Measure and other properties of a Hamel basis. By F. B. JONES 472

On the composition of fields. By CLAUDE CHEVALLEY .......... 482

Note on the closure of orthogonal polynomials. By J. SHOHAT .. 488

GEORGE BANTA PUBLISHING COMPANY, MENASHA, WISCONSIN