

OFFICIAL COMMUNICATIONS

MEETINGS OF THE SOCIETY

NEW BRUNSWICK, NEW JERSEY, September 11–13, 1943.

Abstracts must be in the hands of Associate Secretary T. R. Hollcroft, 531 West 116th St., New York, 27, N. Y., not later than August 6. Abstracts received by August 1 will appear in the September issue of this BULLETIN. The Colloquium Lectures on *Existence theorems in the calculus of variations* will be given by Professor E. J. McShane. By invitation of the Program Committee, Professor Antoni Zygmund will give an address entitled *The complex methods of the theory of trigonometric series* and Professor F. D. Murnaghan will give an address entitled *Finite deformations of an elastic solid*.

NEW YORK CITY, October 30, 1943.

Abstracts must be in the hands of Associate Secretary T. R. Hollcroft, 531 West 116th St., New York, 27, N. Y., not later than October 2. Abstracts received by October 1 will appear in the November issue of this BULLETIN. By invitation of the Program Committee, Professor W. T. Martin will give an address entitled *Mappings by means of systems of analytic functions of several complex variables*.

CHICAGO, ILLINOIS, November 26–27, 1943.*

Abstracts must be in the hands of Associate Secretary W. L. Ayres, Purdue University, Lafayette, Ind., not later than October 22. Abstracts received by October 1 will appear in the November issue of this BULLETIN. At this meeting Professor Marston Morse will give his address as retiring president on the topic *New settings for topology in analysis*. Professor Harry Bateman will deliver the annual Gibbs Lecture on *The control of elastic fluids*. By invitation of the Program Committee Professor Reinhold Baer will give an address.

* This meeting replaces at least the scientific part of the Annual Meeting originally scheduled for Cleveland (see this BULLETIN, July, 1943, p. 517).

PASADENA, CALIFORNIA, November 27, 1943.

Abstracts must be in the hands of Associate Secretary A. D. Michal, California Institute of Technology, Pasadena, 4, Calif., not later than October 30. Abstracts received by October 1 will appear in the November issue of this BULLETIN. By invitation of the Program Committee there will be addresses by Dr. Alfred Tarski on *Paradoxes of geometrical congruence* and Professor M. A. Zorn on *Mathematical induction*. There will be a symposium on applied mathematics at which Professor Theodore von Kármán will speak on *Generalized airplane wing theory*.

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 SAUNDERS MACLANE, 401 West 118th St., New York, 27, N. Y.; in analysis to L. M. GRAVES, University of Chicago, Chicago, 37, Ill.; in other fields to P. A. SMITH, Columbia University, New York, 27, 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, 27, 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 September, 1942, Part 2, pp. 89–90) are payable to the Treasurer of the Society, B. P. GILL, 531 West 116th St., New York, 27, N. Y.

CONTENTS

Vol. 49, No. 8 AUGUST, 1943 Whole No. 527

	Page
On a new application of Jacobi polynomials in connection with the mean value theorem. By E. G. GARNEA	541
Alternative algebras over an arbitrary field. By R. D. SCHAFER	549
On fibre spaces. I. By R. H. FOX	555
Chains in partially ordered sets. By OYSTEIN ORE	558
A conjecture of Ore on chains in partially ordered sets. By SAUNDERS MACLANE	567
On irreducible continuous curves. By M. G. ETLINGER	569
New systems of hypergeodesics defined on a surface. By P. O. BELL	575
Zeros and poles of functions defined by Taylor series. By MICHAEL GOLOMB	581
On extension of Wronskian matrices. By D. M. KRABILL	593
On harmonic and analytic functions. By FRANTIŠEK WOLF	602
On the complex zeros of the Bessel functions. By E. HILLE and G. SZEGÖ	605
On linear spaces which may be rendered complete normed metric spaces. By CASPER GOFFMAN	611
The stronger form of Cauchy's integral theorem. By E. F. BECKENBACH	615
On automorphisms of compact groups. By P. R. HALMOS	619
Cauchy-Stieltjes and Riemann-Stieltjes integrals. By G. B. PRICE	625
Exact n th derivatives. By HOWARD LEVI	631