OFFICIAL COMMUNICATIONS

•

MEETINGS OF THE SOCIETY

NEW YORK CITY, HUNTER COLLEGE, October 25, 1947.

Abstracts must have been in the hands of Associate Secretary T. R. Hollcroft, American Mathematical Society, 531 West 116th Street, New York 27, N.Y., not later than September 20. By invitation of the Committee to Select Hour Speakers for Eastern Sectional Meetings, there will be an address by Professor C. B. Allendoerfer entitled *Global theorems in Riemannian geometry*.

ST. LOUIS, MISSOURI, November 28–29, 1947.

Abstracts must be in the hands of Associate Secretary R. H. Bruck, North Hall, University of Wisconsin, Madison 6, Wis., not later than October 24. By invitation of the Committee to Select Hour Speakers for Western Sectional Meetings, there will be an address by Professor Marshall Hall entitled *Foundations of geometry—retrospect* and prospect and an address by Professor Szolem Mandelbroit entitled Analytic continuation and infinitely differentiable functions, a general principle.

PASADENA, CALIFORNIA, November 29, 1947.

Abstracts must be in the hands of Associate Secretary J. W. Green, University of California at Los Angeles, Los Angeles 24, Calif., not later than October 25. By invitation of the Committee to Select Hour Speakers for Far Western Sectional Meetings, there will be an address by Professor D. H. Lehmer entitled *Electronic aids* to the theory of numbers.

ANNUAL MEETING: ATHENS, GEORGIA, December 29–31, 1947.

Abstracts must be in the hands of Associate Secretary T. R. Hollcroft, American Mathematical Society, 531 West 116th Street, New York 27, N.Y., not later than November 24. The Annual Gibbs Lecture will be delivered by Professor P. M. Morse, who will speak on *Operational research*. By invitation of the Committee to Select Hour Speakers for Annual and Summer Meetings, there will be an address by Professor E. F. Beckenbach entitled *Convex functions*, and an address by Professor Julian Schwinger. Professor T. H. Hildebrandt will deliver his retiring presidential address entitled *Integration in abstract spaces*.

By agreement with the Society, members may also read papers before Section A of the American Association for the Advancement of Science at the meeting in Chicago, Ill., on December 29–30. Such papers will be listed on the program of the Annual Meeting of the Society, and will be recognized as read by title before the Society. Abstracts of papers whose authors desire to read them at Chicago must be received by Associate Secretary T. R. Hollcroft not later than November 24, with a clear statement of intention to read them there.

NEW YORK CITY, February 28, 1948.

CHICAGO, ILLINOIS, February 28, 1948.

NEW YORK CITY, April 16-17, 1948.

ANN ARBOR, MICHIGAN, April 16–17, 1948.

BERKELEY, CALIFORNIA, April 17, 1948.

J. R. KLINE, Secretary of the Society

CONTENTS

Vol. 53, No. 10 OCTOBER, 1947 Whole No. 577

	Page
Primitive recursive functions. By R. M. ROBINSON A proof of two fundamental theorems on linear transforma- tions in Hilbert space, without use of the axiom of choice.	925
By I. Barsotti.	943
Congruence properties of Ramanujan's function $\tau(n)$. By R.	
P. BAMBAH and S. CHOWLA.	950
Addition to my note on semi-simple rings. By OSCAR GOLD-	
MAN A note on the Schmidt-Remak theorem. By FRED KIOKE-	956
MEISTER	957
Algebras and their subalgebras. By A. H. DIAMOND and J. C.	
C. McKinsey.	959
Nonlinear networks. IIa. By R. J. DUFFIN.	963
A bound for the error in computing the Bessel functions of the	200
first kind by recurrence. By H. E. GOHEEN.	972
An electro-mechanical investigation of the Riemann zeta func-	914
	976
tion in the critical strip. By BALTH. VAN DER POL.	970
On the sum of the relative extrema of $ f(z) $ on the unit circle.	0.00
By Robert Breusch.	982
On locally simple curves. By G. T. WHYBURN	986
Constrained motion upon a surface under a generalized field of	
force. By John DeCicco	993
On the notion of recurrence in discrete stochastic processes.	
By M. Kac	1002
On the number of positive sums of independent random	
variables. By P. Erdös and M. KAC	1011

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, American Mathematical Society, 531 West 116th Street, New York 27, N. Y.; in analysis to R. E. LANGER, North Hall, University of Wisconsin, Madison 6, Wis.; in other fields to DEANE MONTGOMERY, Department of Mathematics, Yale University, New Haven, Conn. Reviews should be sent to E. R. LORCH, Milbank Hall, Columbia University, New York 27, N. Y., and items for Notes to BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY, 531 West 116th St., New York 27, N. Y. All communications relating to the odd-numbered issues of the BULLETIN should be sent to E. B. STOUFFER, University of Kansas, Lawrence, Kan., and all other communications to the editors should be addressed to the Managing Editor, SAUNDERS MACLANE, American Mathematical Society, 531 West 116th St., New York 27, N. Y.

The initial fees and annual dues of members of the Society (see this BULLETIN, May, 1940, p. 322; and November, 1946, Part 2, p. 105) are payable to the Treasurer of the Society, B. P. GILL, 531 West 116th St., New York 27, N. Y.

GEORGE BANTA PUBLISHING COMPANY, MENASHA, WISCONSIN