The April Meeting of the Metropolitan New York Section
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Mr. W. E. Smith, University of California, Los Angeles, has been appointed Assistant Professor at Occidental College.

Associate Professor W. K. Smith, Antioch College, has been appointed Associate Professor at Bucknell University.

Professor S. M. Spencer, Jr., Louisiana College, has been appointed Head of the Mathematics Department at McNeese State College.

Associate Professor R. A. Struble, Illinois Institute of Technology, has been appointed Associate Professor at the State College of Agriculture and Engineering, University of North Carolina.

Mr. C. J. Struth, East Texas State Teachers College, is now Assistant Instructor at the University of Kansas.

Mr. B. K. Swartz, Massachusetts Institute of Technology, is now Research Assistant at the University of California, Los Alamos Scientific Laboratory.

Dr. W. C. Swift, Bell Telephone Laboratories, Murray Hill, New Jersey, has been appointed Assistant Professor at Rutgers, The State University.

Associate Professor Choy-tak Taam, The Catholic University of America, has been appointed Professor at Georgetown University.

Mr. Peter Terwey, Jr., on leave from Lamar State College of Technology, is at the Agricultural and Mechanical College of Texas on a National Science Foundation Science Faculty Fellowship.

Mr. R. J. Thomas, University of Illinois, has been appointed Instructor at DePauw University.

Assistant Professor Nura D. Turner, State University of New York, College for Teachers at Albany, has been promoted to Associate Professor.

Mr. R. G. Vinson, University of Tennessee, has been appointed Instructor at the University of Alabama.

Dr. Vaughan Weston, Defense Research Board, Toronto, Canada, is now Research Associate with the Radiation Laboratory, University of Michigan.

Mrs. L. M. Wheeler, Astoria High School, Astoria, Oregon, is now a mathematics teacher at Edmonds Senior High School, Edmonds, Washington.

Professor Leo Zippin, Queens College, has been appointed Professor of Mathematics at Yeshiva University's newly-created Graduate School of Mathematics.

Professor Emeritus Harry Birchenough, State University of New York, College for Teachers at Albany, died on August 20, 1958 at the age of 74. He was a charter member of the Association.

Miss Patience B. Klopp, University of Connecticut, Hartford Branch, died July 22, 1958.

THE MATHEMATICAL ASSOCIATION OF AMERICA

Official Reports and Communications

THE APRIL MEETING OF THE METROPOLITAN NEW YORK SECTION

The seventeenth annual meeting of the Metropolitan New York Section of the Mathematical Association of America was held at Hofstra College, Hempstead, Long Island, April 19, 1958. Dr. J. T. Johnson, Vice-President of Hofstra College gave the address of welcome. Professor E. R. Stabler, Vice-Chairman for Colleges, chaired the morning session which was devoted to papers in applied mathematics. In the afternoon,

Dr. R. N. Walter, Vice-Chairman for High Schools, was moderator for the panel discussion on the topic "What a High School Teacher Should Know About Subjects and Techniques." There were 110 persons in attendance, including 81 members of the Association.

Professor J. N. Eastham, Chairman of the Section, presided at the business meeting. Reports were given by the Governor, Professor Jewell H. Bushey, the Treasurer, Mr. Aaron Shapiro, and the Committee on Contests and Awards. Professor E. R. Stabler resigned his office of Vice-Chairman for Colleges; no appointment was made at the meeting to fill the vacancy.

A resolution, proposed by the Treasurer, to table an amendment to the By-Laws to raise the dues of the Section to one dollar was adopted.

A resolution that a Speaker's Bureau composed of college and high school teachers be established by the Section to furnish speakers to high school mathematics clubs was proposed by the Chairman. The members of the Section approved the establishment of the Bureau on an experimental basis for one year.

It was moved and unanimously carried that a letter be addressed to the New York State Commissioner of Education (1) citing the article "New Requirements for Certification of High School Teachers" by Dr. E. K. Fretwell in the New York State Mathematics Teachers' Journal, Vol. 8, No. 2, April 1958 and (2) requesting that the two sections of The Mathematical Association of America, The Metropolitan New York Section and The Upper New York Section, be invited to present its views at all hearings concerning certification requirements of High School Mathematics Teachers in New York State.

The following papers were presented at the meeting:

1. *The nature of applied mathematics*, by Professor J. B. Keller, Institute of Mathematical Sciences, New York University, introduced by the Secretary.

Applied mathematics was defined as that science of which mathematics is a branch. This viewpoint was supported by historical evidence. Of the three main subdivisions of mathematics, it was pointed out that analysis is most important in applications. Then it was explained why an applied mathematician must know the field of application in which he works and why he must formulate the problems himself. The significance of properly-posed problems was described next and examples of such problems were presented. Once a problem is formulated and found to be properly posed, its properties must be deduced. Finally, expressions for the solution must be found.

2. *The mathematics of operations research*, by Dr. A. W. Jones, Bell Telephone Laboratories, New York City.

Papers 3, 4, and 5 were given in the panel discussion on the topic "What a High School Teacher Should Know About Subjects and Techniques."

3. *Commission on Mathematics of the College Entrance Examination Board*, by Professor M. F. Rosskopf, Teachers College, Columbia University.

The program of the Commission on Mathematics of the College Entrance Examination Board is not a radical program. However, it does imply that secondary school teachers will need to know something about mathematics that may not have been included in their preparatory program. The Commission program does use the language of sets and vectors, and does suggest that probability and statistics be included in the college preparatory program. Much emphasis is put upon clear, precise, and careful use of mathematical language. The Commission report will include not only some discussion of the way in which the program can be put into effect but also will include some suggested classroom units.

4. Panel Discussion, by Mr. Frank Hawthorne, Supervisor of Mathematics Education, The State Education Department, Albany.

Certain conditions are necessary. These include a knowledge of mathematics beyond anything he will be required to teach, an interest in and love for his subject, a knowledge of some of the related fields and a real interest in young people and their intellectual growth. Among the desirable conditions are: a knowledge of the usual sequence in analysis, certainly through the calculus; at least one college course in synthetic geometries and one in statistics. The most valuable "pedagogical" work is probably practice teaching under a skilled and experienced teacher. The existence of sufficient conditions is denied.

5. Panel Discussion, by Mrs. Roxee W. Joly, President, Mathematics Chairmen's Association of New York City, introduced by the Secretary.

As chairman of a mathematics department in a large high school, Mrs. Joly based her ideas on desirable factors of subject and technique which new teachers did not know, even though they had a regular mathematics major in college and graduate school. One neglected area was awareness of actual new syllabi, their philosophy and content. Another serious need was ability to prepare Key Lesson Plans to make the subject alive and exciting. All should take Professionalized Subject matter; a laboratory in Math Recreations, clubs, teams, assemblies; a course tying the anecdotes of history of mathematics to units in the secondary school syllabi; observation and teaching in schools where a dynamic, carefully-selected leader can help them grow in all these directions.

AZELLE B. WALTCHER, *Secretary*

CALENDAR OF FUTURE MEETINGS

Forty-second Annual Meeting, University of Pennsylvania, Philadelphia, Pennsylvania, January 22–23, 1959.

Fortieth Summer Meeting, University of Utah, Salt Lake City, Utah, August 31–September 3, 1959.

The following is a list of the Sections of the Association with dates of future meetings so far as they have been reported to the Associate Secretary.

ALLEGHENY MOUNTAIN, University of Pittsburgh, May 2, 1959.

ILLINOIS, Millikin University, Decatur, May 8–9, 1959.

INDIANA, Valparaiso University, May 2, 1959.

IOWA, Iowa Wesleyan University, Mount Pleasant, April 17, 1959.

KANSAS

KENTUCKY, Centre College of Kentucky, Danville, April, 1959.

LOUISIANA-MISSISSIPPI, Buena Vista Hotel, Biloxi, Mississippi, February 13–14, 1959.

MARYLAND-DISTRICT OF COLUMBIA-VIRGINIA, George Washington University, Washington, D. C., December 6, 1958.

METROPOLITAN NEW YORK

MICHIGAN, Michigan State University of Agriculture and Applied Science, East Lansing, March 28, 1959.

MINNESOTA

MISSOURI, Lindenwood College, St. Charles, April 25, 1959.

NEBRASKA, University of Nebraska, Lincoln, April 18, 1959.

NEW JERSEY

NORTHEASTERN

NORTHERN CALIFORNIA, Stanford University, January 17, 1959.

OHIO

OKLAHOMA

PACIFIC NORTHWEST, University of Oregon, Eugene, June 19, 1959.

PHILADELPHIA

ROCKY MOUNTAIN, Utah State University of Agriculture and Applied Science, Logan, May 8–9, 1959.

SOUTHEASTERN, East Tennessee State College, Johnson City, March 20–21, 1959.

SOUTHERN CALIFORNIA, University of Redlands, March 14, 1959.

SOUTHWESTERN, Arizona State College, Tempe, Spring, 1959.

TEXAS, University of Texas, Austin, April, 1959.

UPPER NEW YORK STATE, Hartwick College, Oneonta, May 9, 1959.

WISCONSIN, Wisconsin State College, Platteville, May 2, 1959.