



April Meeting of the Metropolitan New York Section

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2. *An interesting recurrence relation arising from a problem in optical physics*, by D. W. Lozier, National Bureau of Standards.
3. *A brief look at some generalizations of first countability*, by D. A. Schedler, Virginia Commonwealth University.
4. *Unstable polyhedral structures*, by Michael Goldberg, Washington, D.C.
5. *There are no unusual normed vector spaces in which bounded subsets are basically bounded*, by R. A. Herrmann, United States Naval Academy.
6. *Euclid's notion of numbers*, by S. S. Kutler, St. John's College.
7. *An approximation to Dawson's integral*, by T. S. Schreiber, Consultant, Fairfax, Virginia.
8. *Geometry without triangle congruence*, by C. J. Maloney, Department of Health, Education, and Welfare.
9. *An integral inequality through rearrangements*, by John Milcetic, University of the District of Columbia.
10. *Remarks on the binary Euclidean algorithm*, by G. W. Reitwiesner, Silver Spring, Maryland.
11. *Decoding of MCJ codes*, by H. M. Beck, Naval Research Laboratory.
12. *The Jacchia-Roberts atmospheric model*, by J. W. Kennedy and M. C. Fan, Computer Sciences Corporation.
13. *Approximating e via Cayley's formula*, by B. L. Golden, University of Maryland.

R. C. DRAKE, *Secretary*

APRIL MEETING OF THE METROPOLITAN NEW YORK SECTION

The thirty-sixth annual meeting of the Metropolitan New York section of the MAA was held at Sarah Lawrence College on April 24, 1977. One hundred twenty-five people attended.

Professor Gerald Freilich of Queens College, Chairperson of the Section, presided at the morning session which began with the business meeting. Professor William Zlot of New York University, Sectional Governor, reported on major items before the Board of Governors in the past year. Of particular interest, the proposed amendment to the Section By-Laws affecting the nomination and election of officers was approved by the Board of Governors. Then the committee chairpersons gave their reports as follows: Professor Helen Siner, the College of Staten Island, reported on the Section Committee for Two-Year Colleges; Professor Robert Bumcrot, Hofstra University, reported on the Mathematics Services Committee; Dr. Harry Ruderman, Hunter College High School, reported on the Greater Metropolitan New York Math Fair, and the MAA High School Contest.

The Section Award to the highest regional scorer in the Putman Competition was presented to Mr. Eric R. Jablow of Brooklyn College, CUNY.

Professor Israel Rose, Herbert H. Lehman College, presented the slate of nominees for Section Officers for 1977-79. There were no other nominees from the floor and the following were elected unanimously: Chairperson, Robert Bumcrot, Hofstra University; Vice-Chairperson for Colleges, Godfrey Isaacs, Lehman College; Vice-Chairperson for Two-Year Colleges, F. R. Buianouckas, Bronx Community College; Vice-Chairperson for High School, Alfred Kalfus, Babylon High School.

The main part of the morning session consisted of the following two lectures:

1. *A Little Analysis of Wind Instruments*, by H. E. Rauch, Graduate School and University Center, CUNY.
2. *How to Tell That a Simple Overhand Knot Is Really Knotted*, by E. E. Moise, Queens College, CUNY.

Professor Helen B. Siner of the College of Staten Island, Vice-Chairperson for Community Colleges, presided at the afternoon session. Professor Howard Kleiman, Queensborough Community College, reported on the Speakers' Bureau and gave the Treasurer's report.

The main part of the afternoon session was a panel discussion on *How I Teach Mathematics*. The panelists were: Professor John Impagliazzo, State University of New York at Farmingdale; Professor Melvin Hausner, Courant Institute, NYU; Mr. J. C. Hurley, Theodore Roosevelt High School; Dr. Harry Ruderman, Hunter College High School.

The afternoon session continued with the following twenty-one student and faculty papers given in five parallel sessions coordinated by Professor Samuel Graff, John Jay College of Criminal Justice:

1. *A new course: mathematics on the hand-held calculator*, by Leon Ablon, College of Staten Island.
2. *The Arkin-Hoggatt game*, by Joseph Arkin, New York Academy of Science.
3. *Extensions of the W. Mnich problem on rational sums and products*, by Haig Bohigian, John Jay College of Criminal Justice.
4. *Various schools of thought on probability*, by Allan Caesar, U. S. Merchant Marine Academy.
5. *Nonstandard analysis*, by Evan Cohn, Smithtown West High School.
6. *Extensions of meaning: what is a fractional derivative?* by Michael Ecker, Lehman College.
7. *Applicability criteria for the Monte Carlo solution of systems of linear equations*, by William Edelson, Riverside Research Institute, and Stanley Preiser, Polytechnic Institute of New York.
8. *Pythagoras' theorem for regular polytopes*, by Leon Gerber, St. John's University.

9. *Kepler's second law of planetary motion*, by Christopher Kingsley, Northport High School.
10. *Initial digit problem*, by David Laster, Bronx High School of Science.
11. *On the convergence of the series $\sum_{n=1}^{\infty} ((-1)^{[n\alpha]}/n)$* , Leo Levine, Queensboro Community College.
12. *Asymptotic estimates in geometric number theory and extendible computer storage of planar arrays*, by John Lew and Arnold Rosenberg, Mathematical Sciences Department—I.B.M.
13. *An elementary proof of the law of anomalous numbers*, by James Peters, St. Bonaventure University.
14. *The existence of the infinitesimal*, by Keith Purcell.
15. *Primitive modulo prime*, by Jonathan Roberts, Bronx High School of Science.
16. *Use of the computer in undergraduate mathematics courses*, by F. Scalzo, Queensboro Community College, and A. Paullay, Bronx Community College.
17. *Asymptotic and formal solutions of ordinary differential equations*, by Arthur Schlissel, John Jay College of Criminal Justice.
18. *Space and time*, by Joel Schwartz, John F. Kennedy High School.
19. *The incremented totient summatory function*, by Paul Tartell, Stuyvesant High School.
20. *Some increasing functions of Baire class 1*, by Aaron Todd, Brooklyn College.
21. *Library search system*, by Robert Wilson, Syosset High School.

L. E. CHRIST, *Secretary*

APRIL MEETING OF THE NEBRASKA SECTION

The Annual Meeting of the Nebraska Section was held on Friday and Saturday, April 14 and 15, 1977, jointly with the Annual Meeting of the Nebraska Academy of Sciences, at Nebraska Wesleyan University, Lincoln. Fifty persons were in attendance of whom thirty-five were members of the MAA.

Professor Stanley Luke, Chairman of the Section, reported on a program of visitation to two and four year colleges out of which a panel discussion was developed for the Annual Meeting. Professor R. C. Buck of the University of Wisconsin represented the MAA; he also presented two papers on the program. A report was given by Professor Mildred Gross, Sectional Governor.

Officers elected for 1977-1978 were: Chairman, P. A. Haeder, University of Nebraska at Omaha; Chairman-Elect, T. S. Shores, University of Nebraska-Lincoln; Chairman of High School Contest Committee, Stanley Luke, Nebraska Wesleyan University. H. M. Cox continues as Secretary-Treasurer for the second year of a three-year term.

The following papers were presented:

1. *Subgroups of the orthogonal group and their invariant surfaces: a geometric approach to representation theory of groups*, by S. A. Wiitala, Nebraska Wesleyan University.
2. *A definition for ordered pairs in class theory*, by H. H. Schneider, University of Nebraska-Lincoln.
3. *An extremal problem for a class of regular functions*, by P. D. Tuan, University of Nebraska at Omaha.
4. *Distributional supports of locally 1' function*, by W. T. Franke, University of Nebraska-Lincoln.
5. *Cyclic quasi-Hadamard matrices*, by R. H. Kosloski, University of Nebraska at Omaha.
6. *Calculus with infinitesimals*, by G. H. Meisters, University of Nebraska-Lincoln.
7. *Functions of several variables: Hilbert's 13th and beyond*, by R. C. Buck, University of Wisconsin.
8. *Proportional reasoning as a predictor of success in science courses*, by M. A. Thornton, University of Nebraska-Lincoln.
9. *Existence theory for a quasilinear elliptic system*, by A. V. Lair, University of South Dakota.
10. *A sufficiency test for constrained optimization*, by Stephen Montague, University of Nebraska at Omaha.
11. *Some intersection properties of cut sets of an irreducible connected subspace*, by Edwin Halfar, University of Nebraska-Lincoln.
12. *Results and statistical summary of the 1977 annual high school mathematics contest in Nebraska and South Dakota*, by L. J. Stephens, University of Nebraska at Omaha.
13. *Panel discussion: future curricula in collegiate mathematics*, by D. W. Behrens, J. S. Downing, J. A. Kaus, and J. F. Wampler.
14. *A role for speculation*, by R. C. Buck, University of Wisconsin.

An informal luncheon was held at the Nebraska Wesleyan Student Center.

H. M. COX, *Secretary*

MAY MEETING OF THE ILLINOIS SECTION

The Illinois Section of the MAA held its 56th annual meeting at Chicago Loop College on May 6-7, 1977.