



April Meeting of the Metropolitan New York Section

Source: *The American Mathematical Monthly*, Vol. 81, No. 10, (Dec., 1974), pp. 1145-1146

Published by: Mathematical Association of America

Stable URL: <http://www.jstor.org/stable/2319069>

Accessed: 10/04/2008 09:50

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MATHEMATICAL ASSOCIATION OF AMERICA

Official Reports and Communications

APRIL MEETING OF THE METROPOLITAN NEW YORK SECTION

The thirty-third annual meeting of the Metropolitan New York Section of the MAA was held at the College of Mount St. Vincent, Riverdale, New York, on April 28, 1974. One hundred and forty-one persons registered.

Professor Israel Rose of Lehman College, CUNY, Chairman of the Section, presided over the morning session which began with the business meeting. After reports and discussion on matters of interest to the MAA in general, and the Metropolitan New York Section in particular, it was announced that (1) the recipient of the Section Award to that student in a Metropolitan New York Section School who scores the highest in the Putnam Competition was Julius Collins of the Polytechnic Institute of New York, and (2) Professor Howard Kleiman of Queensborough Community College, CUNY, and Professor William Zlot of New York University have received a grant from the MAA towards the development of the newly formed Section committee, the Mathematics Services Committee for Two-Year and Four-Year Colleges.

The morning session continued with the following lectures:

1. *Teaching mathematics in a preceptorial manner*, by Louis Auslander, Graduate Center, CUNY.
2. *Maximum principles in differential equations*, by David Ellis, Lehman College, CUNY.

Professor Gerald Freilich of Queens College, CUNY, Vice-Chairman for Four-Year Colleges, presided over the afternoon session which began with a panel discussion on *The New Math : Pro and Con*, moderated by Professor Freilich. The panelists were Professor Howard Fehr, Teachers College, Columbia University (Keynote Address); Ms. Cecile Cohen, John F. Kennedy H. S.; Professor Julius Hlavaty, Iona College; Professor Peter Lax, Courant Institute, NYU; and Professor Edwin Moise, Queens College, CUNY.

The following student and faculty papers were then given in parallel sessions:

1. *Summing series of the form $\sum_{k=1}^{\infty} f(k)/n^k$* , by Henry Ricardo, Manhattan College.
2. *An algorithm for extracting n -th roots*, by George Sheehan, student, Fordham University.
3. *Using the classical means to extract square roots*, by Joseph Ercolano, Baruch College, CUNY.
4. *Some aspects of infinite series*, by Arthur Schlissel, John Jay College, CUNY.
5. *$1^k + 2^k + \dots + n^k$ and Bernoulli's Numbers*, by David Groisser, Math. Fair Winner, Midwood H. S., Brooklyn.
6. *A Hamiltonian simplex to solve the transportation algorithm*, by Turken Kumbaraci, Teka Medical Profiles, N.Y.C.
7. *Predicting future performance of stocks by computerized analysis of statistical factors*, by William Korn, student, Bronx H.S. of Science.
8. *On gravitational collapse in Schwarzschild geometry*, by Gregory Swain, Math. Fair Winner, Deer Park H.S.
9. *A Markov model for the "Dynamite Charge" to juries*, by Jeffrey Silver, Bronx Community College, CUNY, and Robert Silver, Harvard University.
10. *Geodesic domes*, by Robert Klitzman, Math. Fair Winner, Half Hallow Hills H.S., L.I.,
11. *Constructibility of angles whose degree measure is rational*, by Jacob Brandler and Ira Wolf, Brooklyn College, CUNY.

12. *On surface area*, by Leopoldo Toralballa, Bronx Community College, CUNY.
13. *Upper and lower bounds for the number of polysquares of order n in R^2 and generalizations in R^p* , by Joshua Massey, Math. Fair Winner, John Dewey H.S.
14. *Advanced differential equations by elementary geometry*, by H. Guggenheimer, Polytechnic Institute of N.Y.
15. *Mechanical proof that altitudes are associated*, by Leon Gerber, St. John's University, Jamaica, N.Y.
16. *Even numbers expressible as the sum of certain types of prime numbers*, by David Zwillinger, student, Bronx H.S. of Science.
17. *A "formula" for the n th prime*, by Robert Bumcrot, Hofstra University.
18. *Latin k -squares and k -cubes of order 10*, by Joseph Arkin, Spring Valley, N.Y.
19. *Quadratic partitions of selected large numbers*, by Daniel Finkel, Brooklyn, N.Y.

RORA IACOBACCI, *Secretary*

APRIL MEETING OF THE OKLAHOMA-ARKANSAS SECTION

The thirty-sixth annual meeting of the Oklahoma-Arkansas Section of the MAA was held at the University of Arkansas at Little Rock, Little Rock, Arkansas, on April 5-6, 1974. There were 91 members and 56 nonmembers attending for a total of 147. Professor Bill Spicer, of Seminole Junior College, presided over the meeting.

A dinner was held on Friday evening in the Student Union. Mr. Ernest Brickell of Oklahoma State University received an award for scoring the highest on the William Lowell Putnam Competition among the participants from Oklahoma and Arkansas. The invited address entitled "How to Make and Break Codes" was given on Friday afternoon by Professor Dorothy Bernstein of Goucher College. Friday evening, Professor L. W. Johnson, Professor Emeritus of Oklahoma State University, gave the second N. A. Court Lecture. The title was "A Geometric Derivation of the Basic Theorem for a Rigid Motion."

The following officers were elected: Chairman, Professor J. R. Hodges, University of Arkansas at Little Rock; Past-Chairman, Professor Bill Spicer, Seminole Junior College; First Vice-Chairman, Professor J. H. Yates, Central Oklahoma State University; Second Vice-Chairman, Gus Pekara, South Oklahoma City Community College; and Secretary-Treasurer E. K. McLachlan, Oklahoma State University. The following were elected as co-chairmen of the High School Mathematics Contest: For Arkansas, Professor E. E. McGehee, Jr., of the State College of Arkansas, and for Oklahoma, Professor Thomas Cairns of the University of Tulsa.

In Oklahoma 53 schools involving 1697 students and in Arkansas 41 schools participated in the high school contests.

The following papers were presented:

1. *A Non-Algebraic Approach to the Theory of Topological Linear Spaces*, by D. C. Kay, University of Oklahoma.
2. *Faces, Edges, Vertices on Some Polyhedra*, by C. H. Harbison, University of Arkansas at Little Rock.
3. *A Decomposition Theorem for m -Convex Sets*, by Marilyn Breen, University of Oklahoma.
4. *Game Theory: Two Person Zero-Sum Games*, by Susan Howard, State College of Arkansas.
5. *A Probability Model of a Conveyor Belt*, by Patricia L. Guinn, Hendrix College.
6. *The Arithmetic Theory of Continued Fractions*, by Cynthia Jackson, Langston University.