



April Meeting of the Metropolitan New York Section

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Morgantown, West Virginia, on April 23 and 24, 1976, with Dr. I. D. Peters as host. Approximately 125 members registered at the meeting.

The Friday evening portion of the program consisted of an address by Norman Zabusky, University of Pittsburgh, entitled "Synergetic Mathematics and Nonlinear Waves." This was followed by a panel on "The Role of Computers in the Mathematics Curriculum" moderated by Richard McDermot, Allegheny College, Meadville, PA. The panel members included J. S. Frame, Michigan State University; Benjamin Haytock, Allegheny College; Thomas Porsching, University of Pittsburgh; and E. G. Whitehead, University of Pittsburgh.

Fifteen minute talks by faculty included:

Trisections and the sine, by J. C. Eaves, W. V. U.

Zeeman's catastrophe machine, by Carl Irwin, W. V. U.

The Wedderburn-Malcev theorem and the gospel of inertial subalgebras, by Nicholas Ford, Penn State University, Fayette.

Reflecting harmonic functions of two variables, by Oleg Carleton, W. V. U.

Murasaki and Bell and Catalan in 1000 A. D., by H. W. Gould, W. V. U.

The game of Go, by J. B. Kim, W. V. U.

Student presentations included:

On the intersection of Sylow subgroups in a finite simple group, by Suzy Stewart, Allegheny College.

An application of Boolean algebra, by Alfred Kabana, Duquesne University.

The Stone-representation theorem in Boolean algebras, by Charles Wills III, Duquesne University.

The girth of the unit ball in Hilbert space, by Kate Boaz, Allegheny College.

How to compute large numbers, by Greg Stump, I. U. P.

π to 10,000 places, by John Svedman, W. V. U.

Comparison of linear programming algorithms, by G. E. M. Pope, W. V. U.

On teaching a computer to learn to play games, by George Bradley, Allegheny College.

Cryptanalysis, by Dorothy Divers, Allegheny College.

Saturday morning there were three invited addresses:

1. *Factors of the binomial circulant determinant*, by J. S. Frame, Michigan State University.
2. *The equal temperament musical scale and some related geometry*, by I. J. Schoenberg, University of Pittsburgh.
3. *Permutations with restricted positions and Hamiltonian paths in graphs*, by David Roselle, Virginia Polytechnic Institute and State University, Secretary, MAA.

A feature of the Saturday morning program was a panel discussion moderated by Charles Cable, Allegheny College, on "Enrollment Trends, Curriculum Innovations and Problems Facing Mathematics Departments". The panelists were Dave Brown, Bethany College; Mary McCammon, Pennsylvania State University; and Richard Moore, Carnegie Mellon University.

Professor James Derr, Chairman of the Section, presided at the Business Meeting. The secretary's report included the list of Putnam competition winners. The top four students from the section in the Putnam competition were J. E. Brosius, Penn State; Susan Stewart, Allegheny College; Lisa Mantini and Kathryn J. Blackmond, of the University of Pittsburg. A one year subscription to the *Mathematics Magazine* will be awarded to these students. A report on the High School Mathematics Contest was given by Professor Francis Hall of Penn State University, Fayette Campus, and Professor I. D. Peters of West Virginia University, for Western Pennsylvania and West Virginia, respectively. The Sectional Governor, Earle Myers of the University of Pittsburg, reported on the Speakers Bureau, the Winter Meeting of the MAA, and the Preparation of Students, Grades K-12. A report was also given by the Secretary of the MAA, Dr. David Roselle. Dr. M. R. Woodard, Indiana University of Pennsylvania, was commended for his years of service as secretary-treasurer.

Article III of the By-Laws was amended and the change was sent to the Board of Governors of the MAA for approval.

Officers elected were Frank Kocher, Pennsylvania State University, Second Vice-Chairman; and J. W. Milsom, Butler County Community College, Secretary-Treasurer. Continuing as Chairman is James Derr of West Virginia University; Albert Rabenstein of Washington and Jefferson College moved up to First Vice-Chairman.

J. W. MILSOM, *Secretary-Treasurer*

APRIL MEETING OF THE METROPOLITAN NEW YORK SECTION

The thirty-fifth annual meeting of the Metropolitan New York Section of the MAA was held at Hofstra University on April 25, 1976. One hundred persons registered.

Professor Gerald Freilich of Queens College, CUNY, Chairman 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, and committee chairmen gave their reports as follows: Professor Helen Siner, Staten Island Community College, CUNY, reported on the Section Committee for Two-Year Colleges; Professor Godfrey Isaacs, Lehman College, CUNY, reported on the Mathematics Services Committee; Professor Howard Kleiman, Queensborough Community College, CUNY, reported on the Speakers' Bureau; and 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 Putnam Competition was presented to Lorenzo Traldi of Queens College, CUNY.

The following Section officers were elected for 1976-79: Secretary, Lily Christ, John Jay College, CUNY; Treasurer, Howard Kleiman, Queensborough Community College, CUNY.

The proposed amendment to the Section By-Laws affecting the nomination and election of officers was discussed and unanimously approved.

The morning session continued with the following lectures:

1. *The dynamic days of dynamic programming*, by H. N. Shapiro, Courant Institute, NYU.
2. *Set theory and American mathematics at the turn of the century*, by Joseph Dauben, Lehman College, CUNY.

Professor Maurice Nadler of Pace University, Vice-Chairman for Four-Year Colleges, presided at the afternoon session which began with a symposium on *Applications of mathematics in the real world*. Clifford Marshall of the Polytechnic Institute of New York, Farmingdale, spoke on *The role of mathematics in operations research*; Marcel Tennenbaum of Hofstra University spoke on *The role of mathematics in economics*; and Francis O'Grady of the Metropolitan Life Insurance Company spoke on *The Role of Mathematics in Actuarial Science*.

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

1. *Unitary arrays and square matrices*, by L. Ausubel, student, Benjamin Cardoza H. S.
2. *Quasi-practical numbers*, by H. J. Hindin, Empire State College.
3. *A numerical measure of complexity*, by J. Propp, student, Great Neck North Senior H. S.
4. *The traveling salesman problem*, by Samuel Kohn, New York Institute of Technology.
5. *A trip through topology*, by Roy Pomerantz, student, Shelter Rock Junior H. S.
6. *Triangle fitting*, by M. Berger, student, Benjamin Cardoza H. S.
7. *Finite circle geometries of three dimensions*, by W. F. Orr, Hofstra University.
8. *The smallest regular tetrahedron inscribed in a given tetrahedron*, by L. Gerber, St. John's University.
9. *Infinite transforms on Euclidean space*, by J. Peters, graduate student, Stevens Institute of Technology.
10. *Shape theory and the Lakta-Volterra equations*, by H. Hastings, Hofstra University.
11. *SPEAK: A computer synthesis speech program*, by C. Hansen, student, Cold Spring Harbor H. S.
12. *When is a solution correct to the nearest tenth?*, by G. Zirkel, Nassau Community College.
13. *The theory and application of Bayesian decision analysis*, by A. Cesar, U. S. Merchant Marine Academy.
14. *Stochastic models in neurophysiology*, by J. Augenbaum, student, Touro College.
15. *An exponential alternative to logarithmic differentiation*, by M. Feigenbaum, U. S. Merchant Marine Academy.
16. *An alternative to Gaussian elimination*, by M. Machover, St. John's University.
17. *A computer oriented calculus program*, by S. Gordon, Suffolk County Community College.
18. *Mathematical aspects of CUNY restructuring proposals*, by H. E. Bohigian, John Jay College, CUNY.
19. *International college prep math*, by M. Griffin, United Nations International School.
20. *A class of subgroups of S_∞ that change asymptotically few natural numbers*, by G. Stoller, Brooklyn, New York.
21. *Analyzing as a secondary school activity*, by F. Wilson, United Nations International School.

RORA IACOBACCI, *Secretary*

APRIL MEETING OF THE MISSOURI SECTION

The annual Spring meeting of the Missouri Section of the MAA was held at Southwest Missouri State University, Springfield, Missouri, on April 9 and 10, 1976. A total of 93 registered for the meeting.

The officers for 1976-77 are as follows: Chairman, F. W. Wilke, University of Missouri-St. Louis; Vice-Chairman, G. C. Schrag, Central Missouri State University; Secretary-Treasurer, H. K. Stumpff, Central Missouri State University; Past Chairman, J. R. Downing, Southwest Missouri State University.

Dean Robert Gilmore of Southwest Missouri State University welcomed the group. Except for invited