

Iowa Section

The seventy-fifth annual Iowa Mathematics meetings were held at Grinnell College, Grinnell, on April 15-16, 1988. The meetings were sponsored jointly by the Iowa Sections of the MAA and ASA. There were 76 registered participants.

Invited Addresses:

- "Settling Questions of Shakespearean Authorship: Could Shakespeare have written a newly-discovered poem?", by Ronald Thisted, University of Chicago.
(Supported by a grant from the Alfred P. Sloan Foundation).
- "Gray Codes and Hamiltonian Graphs", by Herbert Wilf, University of Pennsylvania.
- "A General Setting for Unique Representation of Integers", by Herbert Wilf, University of Pennsylvania.

Contributed Papers:

- "Graph Supplements", by Milan Randić, Drake University.
- "Isospectral Multigraphs", by Bernadette M. Baker, Drake University.
- "Searching for Spheres in Four Dimensional Space", by Dennis Roseman, University of Iowa.
- "Adjoint Functors in Algebraic Topology", by Catherine Gorini, Maharishi International University.
- "Classes of Weighted Symmetric Functions", by Tan Cao Tran, Loras College.
- "A Unified Field Chart for Abstract Algebra", by Maxwell Rainforth, Maharishi International University.
- "Pedagogical Biases in the Calculus Classroom", by Reginald Laursen, Luther College.
- "Leonardo Pisano (Fibonacci) and The Book of Squares: More Than a Single Sequence", by Michael Millar, University of Northern Iowa.
- "Geometry and Invariant Theory", by Tuong Ton-That, University of Iowa.
- "Estimating Census Undercount at National and Subnational Levels", by Noel Cressie, Iowa State University
- "Last Year's Applied Statistics Lectures Aren't Good Enough for This Year", by Jon H. Lemke, University of Iowa.
- "Degrees of Freedom in Sparse Complete Contingency Tables", by Stephen Haslett, Iowa State University.
- "Superadditive Functions and a Statistical Application", by Tim Wright, University of Iowa.
- "Counting Words and the Clique Polynomial of a Graph", by Anita E. Solow, Grinnell College.
- "On the Symmetry of Highly Symmetrical Graphs", by Theron Oxley, Drake University.
- "Shuffled' Toeplitz Matrices", by Luz M. DeAlba, Drake University.

Student Papers:

- "Characteristics of a Tangent Line", by Veronique Ziegler, Maharishi International University.
- "Buffon's Needles in 3-Space", by Richard Patz, Grinnell College.
- "Relationships Between Music and Mathematics", by Mary Wetjen, Clarke College.
- "Simplices, Euler Number, and Pascal's Triangle", by Paul M. Shimura, Maharishi International University.
- "On Crossing Number for Select Graphs", by John Squires, Drake University.
- "Search for Unusual Vertices in Graphs", by Paula Calkins, Drake University.
- "Spectral Properties of Ulam's Subgraphs", by John Seal, Drake University.
- "On Symmetry of Zero-Symmetric Graphs", by Chris Smith, Drake University.
- "On Construction of Graphs", by Pat Horan, Drake University.

Business:

Student memberships were awarded to Richard Patz, Grinnell College, Mary Wetjun, Clarke College, and John Seal, Drake University for their presentations. Calvin Van Niewaal, Coe College, was elected Chair-Elect. The Secretary-Treasurer was designated as the liaison for the Membership Incentive Program.

David O. Oakland, Secretary-Treasurer