

JOINT MEETINGS OF THE IOWA SECTIONS OF MAA, ASA

Grinnell College  
April 15-16, 1988

GENERAL SCHEDULE OF EVENTS

(All events except the Mixer take place in the Hall of Science)

FRIDAY, APRIL 15

12:30 PM -	Registration	Lobby Outside Science 2001
1:00 - 4:00 PM	Student Papers	Science 2001
4:15 - 5:15 PM	Lecture: Ronald Thisted (University of Chicago) "Settling Questions of Shakespearean Authorship: Could Shakespeare have written a newly-discovered poem?" (Supported by a grant from the Alfred P. Sloan Foundation)	Science 2001
5:30 - 7:30 PM	Dinner on Own	
7:30 - 8:20 PM	Lecture: Herbert Wilf (University of Pennsylvania) "Gray Codes and Hamiltonian Graphs"	Science 2001
8:30 - 10:00 PM	Informal Mixer (Sponsored by the statistics departments at Iowa and Iowa State with support from Harper & Row, Publishers, Inc.)	Grinnell House

SATURDAY, APRIL 16

8:00 AM -	Registration	Lobby outside Science 2001
8:40 - 9:30 AM	Demonstrations of Computer Classroom and Laboratory Usage: In Mathematics: Emily Moore (Grinnell College) In Computer Science: Henry Walker (Grinnell College)	Science 3341 Science 3325
9:50 - 10:40 AM	Lecture: Herbert Wilf "A General Setting for Unique Representation of Integers"	Science 2001
11:00 - 11:30 AM	Business Meeting and Student Awards	Science 2001
11:30 - 1:00 PM	Lunch on Own	
1:00 - 4:00 PM	Concurrent Paper Sessions	Science 3325, 3341, 3352

## Schedule of Papers

### STUDENT PAPERS

FRIDAY, APRIL 15

Science 2001

- 1:00 PM Veronique Ziegler, Maharishi International University:  
"Characteristics of a Tangent Line"
- 1:25 Richard Patz, Grinnell: "Buffon's Needles in 3-Space"
- 1:50 Mary Wetjen, Clarke: "Relationships Between Music and  
Mathematics"
- 2:15 Paul M. Shimura, MIU: "Simplices, Euler Number, and Pascal's  
Triangle"
- 2:40 John Squires, Drake: "On Crossing Number for Select Graphs"
- 2:55 Paula Calkins, Drake: "Search for Unusual Vertices in Graphs"
- 3:10 John Kosmicke and John Seal, Drake: "Spectral Properties of  
Ulam's Subgraphs"
- 3:25 Chris Smith, Drake: "On Symmetry of Zero-Symmetric Graphs"
- 3:40 Pat Horan and Floyd Bates, Drake: "On Construction of Graphs"

### CONCURRENT SESSIONS, CONTRIBUTED PAPERS

SATURDAY, APRIL 16

Session A

Science 3341

- 1:00 PM Milan Randic, Drake: "Graph Supplements"
- 1:30 Bernadette Baker, Drake: "Isospectral Multigraphs"
- 2:00 Dennis Roseman, Iowa: "Searching for Spheres in Four Dimensional  
Space"
- 2:30 Catherine Gorini, MIU: "Adjoint Functors in Algebraic Topology"
- 3:00 Tan Cao Tran, Loras: "Classes of Weighted Symmetric Functions"
- 3:30 Maxwell Rainforth, MIU: "A Unified Field Chart for Abstract  
Algebra"

**Session B**

Science 3352

- 1:00 PM Reginald Laursen, Luther: "Pedagogical Biases in the Calculus Classroom"
- 1:30 Michael Millar, UNI: "Leonardo Pisano (Fibonacci) and The Book of Squares: More Than a Single Sequence"
- 2:00 Tuong Ton-That, Iowa: "Geometry and Invariant Theory"
- 2:30 Noel Cressie, ISU: "Estimating Census Undercount at National and Subnational Levels"
- 3:00 Jon H. Lemke, Iowa: "Last Year's Applied Statistics Lectures Aren't Good Enough for this Year"

**Session C**

Science 3325

- 1:30 PM Stephen Haslett, ISU: "Degrees of Freedom in Sparse Complete Contingency Tables"
- 2:00 Tim Wright, Iowa: "Superadditive Functions and a Statistical Application"
- 2:30 Anita E. Solow, Grinnell: "Counting Words and the Clique Polynomial of a Graph"
- 3:00 Theron Oxley, Drake: "On the Symmetry of Highly Symmetrical Graphs"
- 3:30 Luz M. DeAlba, Drake: "'Shuffled' Toeplitz Matrices"