

JOINT MEETINGS OF THE IOWA SECTIONS OF MAA, SIAM, ASA

University of Iowa, Iowa City
April 11-12, 1986

Friday sessions in Van Allen Hall

Saturday sessions in Chemistry-Botany Building

FRIDAY, APRIL 11 301 Van Allen

- 12:30 Registration
- 1:15 Eugene Herman, Grinnell University: "The Math Student's Computer Toolkit in the 1990's"

STUDENT PAPERS (20 minutes, unless stated otherwise)

- 2:20 Dafna Yardeni, Maharishi International: "Parallels Between Maharishi's Vedic Science and Set Theory"
- 2:45 Brenda Sacry/Susan Wright, Graceland: "Pursuit of the Vanishing Valedictorian"
- 3:10 Scott Rothfus, Drake: "On the Characteristic Polynomial of Some Large Graphs"
- 3:35 Ruth Gornet, Drake: "On Unusual Vertices in Small Graphs"
- 4:00 Anne Koopman, Loras: "And Model Theory Presents..." (40 min.)
- 4:45 Tracy Parks, Drake: "On the Similarity of Trees"
- 5:10 Albert Goodman/Kevin Manbeck/Byron Ricks, Grinnell: (winning paper in the Mathematical Competition in Modeling. 40 min)
- 6:00 Dinner, on your own
- 8:00 Party, hosted by the Department of Statistics and Actuarial Science, University of Iowa, Triangle Club Lounge, Student Union

SATURDAY, APRIL 12, Chemistry-Botany, Room 225

- 8:00 Registration, Coffee and Rolls
- 8:30 Graeme Fairweather, University of Kentucky: "On Solving Certain Almost Block Diagonal Linear Systems"
- 9:45 Lynn Steen, St. Olaf College: "Mimicry, Magic or Mathematics: Which shall it be?"
- 11:00 Student Awards
- 11:10 Business Meetings
- 11:40 Lunch, on your own

CONCURRENT SESSIONS, Contributed Papers

SESSION A, Chemistry-Botany, Room 65

- 1:00 Irvin & Robert Hentzel, ISU: "Triangular Puzzle Peg"
1:25 Noel Cressie, ISU: "Spatial Prediction of Acid Rain Using Kriging"
2:00 Robert Hogg, Iowa: "All Observations Are Not Created Equal"
2:35 Stuart Kleigman, Iowa: "Shrinkage Estimation With Actuarial Applications"
3:10 W. Robert Stephenson, ISU: "Quality Control: Helping Industry in Iowa"
3:45 Joseph Sedransk, Iowa: "Assessing Patterns of Care in Radiation Therapy: Sample Design Analysis"

SESSION B, Chemistry-Botany, Room 206

- 1:00 Catherine Gorini, Maharishi International: "Topology and Topos Theory"
1:25 Robin Ticciati, Maharishi International: "Geometry in Unified Field Theories of Physics"
1:50 Patsy Milton, Drake: "A Markov Chain Model in the Study of Student Performance"
2:15 Friedmar Schulz, Iowa: "Bernstein's Theorem for Minimal Surfaces"
2:50 Gary Lieberman, ISU: to be announced
3:25 Rajbir Dahiya, ISU: "Computation of Multi-dimensional Laplace Transforms"
4:00 Ezio Venturino, Iowa: "The Steady State Temperature Distribution in an Infinite Room with a Window"

SESSION C, Chemistry-Botany, Room 233

- 1:00 Robin Harte, Iowa: "Posiive Elements and the B Condition"
1:25 A.M. Fink, ISU: "How to Polish Off Median Polish"
1:50 A.F. Kleiner, Drake: "A Curious Approach to Higher Derivatives"
2:15 Milan Randic, Drake: "On Graph Theoretical Polynomials"
2:40 Michael Miller, UNI: "Geometric Transformations: Some General Applications"
3:05 Bernadette Baker, Drake: "Isospectral Multigraphs"
3:30 Charles Jepsen, Grinnell: "On Colorings of Finite Projective Planes"
3:55 Kent Fuller, Iowa: "The Cartan Determinant Problem"