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

Iowa State University, Ames, Iowa
April 22-23, 1983

Friday, April 22

Room 408 Carver Hall

    1:30 Registration
    2:00 Nikos Salingaros, University of Iowa,
          Applications of Clifford Algebras in Theoretical Physics
    2:30 Michael H. Millar, University of Northern Iowa,
          Automata: A View from Four Perspectives
    3:00 Break

          Concurrent Sessions

Room 408 Carver Hall - Student Papers

    3:15 Donald John Nicholson, Iowa State University,
          A Ubiquitous Partition on Perfect Subsets of $\mathbb{R}^n$
    3:45 Todd Wibben and Jimmie Arnold, Iowa Wesleyan College,
          The Apple Looks at Bertrand's Paradox
    4:15 Grant Izmirlian, Drake University,
          Factoring the Characteristic Polynomial for Graphs with Symmetry
    4:45 Doug Jaynes and Bob Anderson, Iowa Wesleyan College,
          Cardano's Method of Solving Cubics in Finite Fields

Room 290 Carver Hall

    3:15 Tom Whaley, Central College,
          A Geometric Limit Problem in Calculus
    3:45 George Kelley, Maharishi International University,
          Hyperspace - Exploring the Concept of Dimension
    4:15 George Kelley, Corey Vion and Vedder Wright, Maharishi International Univ.,
          A Fuller Value of Geometry
    4:45 George Kelley and Thomas Stone, Maharishi International University,
          The Musical Experience of Number

Saturday, April 23

Room 101 Carver Hall - Main Floor Auditorium

    8:00 Coffee and Donuts
    9:00 Paul Blanchard, Dynamics on the Riemann Sphere
  10:00 Leonard Gillman, University of Texas, Treasurer of the MAA
          Classroom Notes
  11:00 Break
  11:15 Governor's Report
  11:30 Business Meeting
  12:00 - 1:30 Lunch
    1:30 Wayne L. Woodworth, Drake University
          On Characterization of Isospectral Graphs

          Concurrent Sessions

Room 101 Carver Hall - Main Floor Auditorium

    2:00 Leslie Hogben, Iowa State University,
             A Matrix Calculator for Classroom Use
    2:30 Paul Sacks, Iowa State University
             The Set of Solutions of a Semi-linear Parabolic Equation
    3:00 W. Madych, Iowa State University,
             Practical and Mathematical Aspects of Computed Tomography
    3:30 Jim Murdock, Iowa State University,
             Frequency Entrainment in Periodically Forced Oscillators

Room 001 Carver Hall - Ground Floor Auditorium

    2:00 Milan Randic, Drake University,
             On Deriving the Characteristic Polynomial of a Graph
    2:30 Catherine Gorini Wadsworth, Maharishi International University,
             Using an Understanding of Consciousness to Explain the Effectiveness of
             Mathematics in the Sciences
    3:00 Stephen J. Willson, Iowa State University,
             The Geometry of Coefficients of Powers of Polynomials
    3:30 Eric W. Hart, Maharishi International University
             A Refined Platonist Philosophy of Mathematics