The Regular Meeting of The Iowa Section

Mathematical Association of America

The 70th regular meeting of the Iowa Section, M.A.A., was held on the campus of
Iowa State University, Ames, Iowa on April 22 and 23, 1983. The meeting was held jointly
with the Iowa Section of the Society for Industrial and Applied Mathematics. On Friday
afternoon there were both joint and concurrent sessions, one of which featured student
papers. Invited addresses were presented on Saturday morning with more joint and con-
current sessions held on Saturday afternoon. There were 72 persons present on Friday,
50 of whom were members of the section. Of the 59 people attending the Saturday sessions,
49 were MAA members. Altogether 83 people including 59 members of the MAA attended the
meetings.

The program, arranged by Chairperson-Elect Lynn Olson and James Murdock of SIAM,
consisted of the contributed papers and invited addresses listed below along with the
Governor's report presented by William Waltmann and the business session. In addition
a social event was held Friday evening at the home of James Cornette.

At the business meeting Wayne L. Woodworth of Drake University was elected to the
office of Chairperson-Elect. No formal actions were taken at the meeting conducted by
Chairperson Edward Hill of Cornell College. Action on items discussed was left to the
discretion of the executive committee. Appreciation was expressed to A. M. Fink and
others at Iowa State University for their efforts in hosting the meeting.

Papers and invited addresses:

1. Applications of Clifford Algebras in Theoretical Physics, Nikos Salingaros, University
    of Iowa

2. Automata: A View from Four Perspectives, Michael H. Millar, University of Northern
    Iowa

3. A Ubiquitous Partition on Perfect Subsets of $\mathbb{R}^n$, Donald John Nicholson, Iowa State
    University

4. The Apple Looks at Bertrand's Paradox, Todd Wibben and Jimmie Arnold, Iowa Wesleyan
    College

5. Factoring the Characteristic Polynomial for Graphs with Symmetry, Grant Izmirlian,
    Drake University

6. Cardano's Method of Solving Cubics in Finite Fields, Doug Jaynes and Bob Anderson,
    Iowa Wesleyan College

7. A Geometric Limit Problem in Calculus, Tom Whaley, Central College

8. Hyperspace - Exploring the Concept of Dimension, George Kelley, Maharishi International University

9. A Fuller Value of Geometry, George Kelley, Correy Vion and Vedder Wright, Maharishi International University

10. The Musical Experience of Number, George Kelley and Thomas Stone, Maharishi International University

11. Invited Address: Dynamics on the Riemann Sphere, Paul Blanchard, Boston University

12. Invited Address: Classroom Notes, Leonard Gillman, University of Texas

13. On Characterization of Isospectral Graphs, Wayne L. Woodworth, Drake University

14. A Matrix Calculator for Classroom Use, Leslie Hogben, Iowa State University

15. The Set of Solutions of a Semi-linear Parabolic Equation, Paul Sacks, Iowa State University

16. Practical and Mathematical Aspects of Computed Tomography, W. R. Madych, Iowa State University

17. Frequency Entrainment in Periodically Forced Oscillators, Jim Murdock, Iowa State University

18. On Deriving the Characteristic Polynomial of a Graph, Milan Randic, Drake University

19. Using an Understanding of Consciousness to Explain the Effectiveness of Mathematics in the Sciences, Catherine Gorini Wadsworth, Maharishi International University

20. The Geometry of Coefficients of Powers of Polynomials, Stephen J. Willson, Iowa State University

21. A Refined Platonist Philosophy of Mathematics, Eric W. Hart, Maharishi International University.

Respectfully submitted,

E. J. Peake
Secretary-Treasurer
Iowa Section, MAA