Iowa Section

The seventy-sixth annual Iowa Mathematics meetings were held April 7-8, 1989, on the campus of Coe College in Cedar Rapids. The meetings were sponsored jointly by the Iowa Sections of MAA, ASA and IMATYC. There were 103 registered participants.

Invited Addresses:

"Mathematics and the public", by Leonard Gillman, University of Texas at Austin.
"An 'obvious' induction", by Leonard Gillman, University of Texas at Austin.
"Teaching statistics as a respectable discipline", by David S. Moore, Purdue University.

Student Papers:

"On growing large trees", by John Seal, Drake University.
"How to tie a matrix to a knot", by John Squires, Drake University.
"Transformations of the complex plane", by Dave Feil & Mario Affatigato, Coe College.
"Matrices with repeating diagonals", by Lawrence Kidder, Drake University. "Least-squares regression surface as a physical system in equilibrium", by Nuwan Nanayakkara, Iowa State University.
"Residual-based estimators for covariance function and variogram", by Martin O. Grondona & Noel A. Cressie, Iowa State University.
"Chaotic dynamical systems", by Lori O'Brien, Loras College & Blake Scranton, Clarke College.
"Deterministic fractals", by Susan Borgerding & Lori O'Brien, Loras College.
"Perfect square, triangular numbers", by Philip Zee, Loras College.
"Going from graphs to posets", by Paul Shimura, Maharishi International University.
"Going from posets to topological spaces", by Veronique Ziegler, Maharishi International University.

Contributed Papers:

"Minimal balls and parallelogram law", by Ronald Smith, Graceland College.
"A strange dual for a problem on a square", by Irvin R. Hentzel and Richard Sprague, Iowa State University.
"Hyponormal systems of operators: applications of computers to infinite dimensional problems", by Raul E. Curto and Paul S. Muhly, University of Iowa.
"On sums of powers of integers", by H. K. Krishnapriyan, Drake University.
"Results on terminal polynomials", by A. Kleiner and M. Randić, Drake University.
"Graphs with integer eigenvalues", by M. Randić and Bernadette Baker, Drake University.
"Powers of an ideal in a commutative ring", by Daniel D. Anderson, University of Iowa.
"Changes in calculus", by Gilbert Strang, Massachusetts Institute of Technology.
"Using CAS and Pascal programs in teaching differential equations", by Douglas A. Swan, Morningside College.
"Linear algebra: a smooth transition to the realm of abstraction and proof", by Eric W. Hart, Maharishi International University.
"Using discrete dynamical systems to inspire calculus", by James T. Sandefur, Georgetown University.
"A geometry course for art majors", by Catherine A. Gorini, Maharishi International University.
"Teaching about fractals", by Stephen J. Willson, Iowa State University.
"A unified course in analytic vectors and computer graphics", by K. D. Stroyan, University of Iowa.
"A method for improving mathematical intuition in the classroom", by Anne Dow, Maharishi International University.
"Teaching experimental design at a four year college", by Gordon Bril, Luther College.
"Three new math placement services from ACT", by John Roth, Director of Placement Services, ACT.
"Teaching statistics", a panel discussion organized by Tom Moore, Grinnell College.

Business:

Charles Jepsen, Grinnell College, presided. John Seal, Lori O'Brien, Blake Scranton, and Susan Borgerding were recognized for their outstanding student presentations and awarded student memberships in the MAA. Luz DeAlba, Drake University, volunteered to serve as newsletter editor. Elgin Johnston, Iowa State University, was elected Chair-elect.

David O. Oakland, Secretary-Treasurer