

Joint Meetings of the Iowa Sections of MAA, ASA and IMATYC
Coe College April 7-8, 1989

INVITED ADDRESSES:

Leonard Gillman, University of Texas at Austin, "Mathematics and the public"
Leonard Gillman, University of Texas at Austin, "An "obvious" induction"
David S. Moore, Purdue University, "Teaching Statistics as a Respectable Discipline"

STUDENT PAPERS:

John Seal, Drake: "ON GROWING LARGE TREES"
John Squires, Drake: "HOW TO TIE A MATRIX TO A KNOT"
Dave Feil & Mario Affatigato, Coe: "TRANSFORMATIONS OF THE COMPLEX PLANE"
Lawrence Kidder, Drake: "MATRICES WITH REPEATING DIAGONALS"
Nuwan Nanayakkara, ISU: "LEAST-SQUARES REGRESSION SURFACE AS A PHYSICAL SYSTEM IN EQUILIBRIUM"
Martin O. Grondona & Noel A. Cressie, ISU: "RESIDUAL-BASED ESTIMATORS FOR COVARIANCE FUNCTION AND VARIOGRAM"
Lori O'Brien, Loras & Blake Scranton, Clarke: "CHAOTIC DYNAMICAL SYSTEMS"
Susan Borgerding & Lori O'Brien, Loras: "DETERMINISTIC FRACTALS"
Philip Zee, Loras: "PERFECT SQUARE, TRIANGULAR NUMBERS"
Yeronique Ziegler, MIU: "GOING FROM POSETS TO TOPOLOGICAL SPACES"
Paul Shimura, MIU: "GOING FROM GRAPHS TO POSETS"

CONTRIBUTED PAPERS:

Ronald Smith, Graceland: "MINIMAL BALLS AND PARALLELOGRAM LAW"
Irvin R. Hentzel and Richard Sprague, ISU: "A STRANGE DUAL FOR A PROBLEM ON A SQUARE"
Raul E. Curto and Paul S. Muhly, Iowa: "HYPONORMAL SYSTEMS OF OPERATORS: APPLICATIONS OF COMPUTERS TO INFINITE DIMENSIONAL PROBLEMS"
H. K. Krishnapriyan, Drake: "ON SUMS OF POWERS OF INTEGERS"
A. Kleiner and M. Randic, Drake: "RESULTS ON TERMINAL POLYNOMIALS"
M. Randic' and Bemadette Baker, Drake: "GRAPHS WITH INTEGER EIGENVALUES"
Daniel D. Anderson, Iowa: "POWERS OF AN IDEAL IN A COMMUTATIVE RING"
Gilbert Strang, MIT: "CHANGES IN CALCULUS"
Douglas A. Swan, Morningside: "USING CAS AND PASCAL PROGRAMS IN TEACHING DIFFERENTIAL EQUATIONS"
Eric W. Hart, MIU: "LINEAR ALGEBRA: A SMOOTH TRANSITION TO THE REALM OF ABSTRACTION AND PROOF"
James T. Sandefur, Georgetown: "USING DISCRETE DYNAMICAL SYSTEMS TO INSPIRE CALCULUS"
Catherine A. Gorini, MIU: "A GEOMETRY COURSE FOR ART MAJORS"
Stephen J. Willson, ISU: "TEACHING ABOUT FRACTALS"
K. D. Stroyan, Iowa: "A UNIFIED COURSE IN ANALYTIC VECTORS AND COMPUTER GRAPHICS"
Anne Dow, MIU: "A METHOD FOR IMPROVING MATHEMATICAL INTUITION IN THE CLASSROOM"
Gordon Bril, Luther: "TEACHING EXPERIMENTAL DESIGN AT A FOUR YEAR COLLEGE" John Roth, Director of Placement Services, ACT: "THREE NEW MATH PLACEMENT SERVICES FROM ACT"
Panel Discussion, Organized by Tom Moore, Grinnell: