Joint Meetings of the Iowa Sections of MAA, ASA, AMATYC
Drake University, April 5-6, 1991

SATURDAY, APRIL 6

8:00am-	Registration	Meredith Hall, South lobby
8:30-9:30am	W. Robert Stephenson, Iowa State University "The Statistics' Experience Versus Experiencing Statistics"	101 Meredith Hall
9:45-10:45am	A. Wayne Roberts, Macalester College "The Current State of Calculus Reform"	101 Meredith Hall
11:00-11:30am	Business meeting and Student Awards	101 Meredith Hall
11:30-1:00pm	Lunch on own	
11:30-1:30pm	AMATYC Luncheon John Wheeler, Iowa Department of Education	Baker Cafeteria 7400 Hickman
1:00-4:30pm	Concurrent Sessions (see below and reverse)	101, 102, 103, 106 Meredith Hall

SATURDAY AFTERNOON SESSION

SESSION I 103 Meredith Hall

1:00	Michael Millar	UNI	Episodes from Islamic Mathematics
1:30	Reginald Laursen Steven Schlicker	Luther Luther	True Basic Software for Calculus Instruction
2:00	Sherry L. Meier West Des Moines Community Schools		An Application to the TI-81 Graphics Calculators: Implications for Pre-calculus and Calculus Courses **NOTE: 125 Meredith**
2:30	Elgin Johnston	ISU	The MAA Mathematics Competitions
3:00	Patsy Fagan Jerold Mathews	Drake ISU	Curriculum and Evaluation Standards for School Mathematics
3:30	Anita Solow	Grinnell	Writing Calculus Labs

SESSION II — 102 Meredith Hall

Time	Speaker	Affiliation	Title
1:00	K. B. Athreya	ISU	On Measures of Nondegeneracy
1:30	A. Rahulji Parsa	Drake	Correspondence Analysis
2:00	Jennifer Rowley	UNL	Using the Beta Distribution in Utility Analysis
2:30	Milan N. Lukic	MIU	A Note on Hermite Polynomials of a Gaussian Random Process
3:00	Li Luoluo	Zhongshan	Results on Inequalities of Matrix Product
3:30	Valery A Kholodnyi	MIU	Reduction of the Dirichlet Problem for Helmholtz' Equation in the Plane to the Cauchy Problem for a Sequence of Ordinary Differential Equations on the Boundary
4:00	James Wilson	ISU	New Proofs of Mean Comparison Inequalities

SESSION III — 101 Meredith Hall

Time	Speaker	Affiliation	Title
1:00	M. Anne Dow	MIU	Effects of Maharishi Mahesh Yogi's Transcendental Meditation Program on Factors Affecting Success in Mathematics
1:30	A. M. Fink	ISU	An Integral that Arises in the Search for Jesse James' Gold
2:00	H. K. Krishnapriyan	Drake	Yet Another Method of Counting Triangles
2:30	Catherine A. Gorini	MIU	Tiling Groups for Non-uniform Tilings
3:00	Milan Randić / David Oakland	Drake / Drake	On Unique Number Labels for Graphs
3:30	Arnold Adelberg	Grinnell	A New Approach to Bernoulli Polynomials
4:00	Dan Ashlock	ISU	Compositional Attractors: A Unifying Idea for Permutation Polynomials

SESSION IV — 106 Meredith Hall

These videos are each "approximately" one hour long so the listed starting times are also approximate. There will be a brief break between showings.

1:00 Chaos, Fractals and Dynamics: Computer Experiments in Mathematics
   Robert Devaney

2:00 The Transition to Chaos: The Orbit Diagram and the Mandelbrot Set
   Robert Devaney

3:00 The Beauty and Complexity of the Mandelbrot Set
   John Hubbard