## Friday, April 4, 2003

**Concurrent Session of Contributed Papers 1      Wright Hall 7**

2:00    **On the Use of Computer Algebra Syntax in the Calculus Classroom**
**Russell Goodman**, Central College

2:30    **Using the Pivot Package in Linear Algebra and Finite Mathematics**
**Al Hibbard**, Central College

3:00    **The Classical Ramsey Number *R*(3,3,3,3;2) Is No Greater Than 62**
**Richard Kramer**, Iowa State University

3:30*   **An Elementary Integration Arising in Astronomy**
**Joseph C. Keller**, Iowa State University

4:00    **What it Took Sylvester 3 Days to Do, I Can Do in 2**
**A. M. Fink**, Iowa State University


**Concurrent Session of Contributed Papers 2      Wright Hall 109**

2:00    **What's Your Angle? The Role of Definitions in Algebra and Geometry**
**Cathy Gorini**, Maharishi University of Management

2:30    **Mathematics Without Words: A project to study visual representations of mathematical ideas**
**M. E. (Murphy) Waggoner**, Simpson College

3:00    **The Best Fitting Line**
**Irvin Roy Hentzel**, Iowa State University

3:30    **The Number of E-ban Numbers: It Can Go Either Way**
**Charles Ashbacher**, *Journal of Recreational Mathematics*, Mount Mercy College

4:00    **Orders Of L-Shaped Polyominoes**
**Charles Jepsen**, Grinnell College


**Concurrent Session of Contributed Papers 3      Wright Hall 119**

2:00    **The Largest Impossible Bet**
**Ronald K. Smith**, Graceland University


2:30    **John Graunt, John Arbuthnott, and the Emergence of Statistics**
**R. B. Campbell**, University of Northern Iowa

**3:00**   **On the Number of 100 . . . 01 Strings in Certain Bernoulli Trials, and Random Permutations**
**Sunder Sethuraman**, Iowa State University

**3:30**   **Periodic point numbers and group structure - or 'the world's two weirdest primes'**
**Christian Roettger**, Iowa State University

**4:00***   *Mathematica*-**Aided Propagation Phenomena in Operator Theory**
**Jasang Yoon**, University of Iowa

**Round Table Discussion**                **Wright Hall 7**

**4:45**   **Teacher Certification in Iowa**
**Joyce Becker**, Luther College
**Rob Keller**, Loras College
**Catherine Miller**, University of Northern Iowa
The organizers will lead a discussion of issues concerning teacher certification in mathematics in the state of Iowa.

**Dinner on your own**

**Plenary Session 1 and Reception     Sabin Hall 102**

**7:30**   **I Know it's True, I Just Can't Prove it!**
**E. Todd Eisworth,** University of Northern Iowa

**Saturday, April 5, 2003**

**Plenary Session 2     Sabin Hall 102**

**8:45**   **Finding Your Way in a Graph**
**Ronald Graham,** University of California, San Diego and President of the MAA

**Plenary Session 3     Sabin Hall 102**

**10:00**   **Undergraduate Programs and Courses in the Mathematical Sciences: A CUPM Curriculum Guide**
**Herbert E. Kasube**, Bradley University and Chair of the MAA CUPM

**Undergraduate Student Competition    Wright Hall and Sabin Hall**

10:00-1:00    **Ruth Berger**, Luther College


**Concurrent Round Table Discussion 1    Sabin Hall 102**

11:00  **MAA Student Chapters**
 **Cathy Gorini**, Maharishi University of Management
 This meeting will provide an opportunity for MAA student chapter advisors to
 share ideas.


**Concurrent Round Table Discussion 2    Wright Hall 7**

11:00  **Cooperation Among Mathematics Departments in the State**
 **Jim Freeman**, Cornell College
 This discussion will explore ways that mathematics departments can cooperate for
 their mutual benefit and the benefit of the discipline.


**Business Meeting, Iowa Section of the MAA    Sabin Hall 102**

12:00  **Steve Nimmo**, Morningside College, Chair of the Iowa Section of the MAA


**Lunch on your own.**


**Concurrent Session of Contributed Papers 4    Wright Hall 7**

2:00**  **Searching for (96, 20,4) Difference Sets**
 **Logan Axon**, Grinnell College

2:30**  **(96,20,4) Difference Sets and Designs**
 **Nathan Gotman**, Grinnell College

 3:00  **Reliable functions to build phylogenetic trees using minimum evolution**
 **Stephen J. Willson**, Iowa State University

3:30  **Thematization Of The Calculus Graphing Schema**
 **Laurel Cooley**, York College-CUNY
 **Bernadette Baker** (presenter), Drake University
 **María Trigueros**, ITAM

4:00**  **Optimal Voting Strategies for *The Weakest Link***
 **Amy Winter**, Cornell College

**Concurrent Session of Contributed Papers 5      Wright Hall 9**

2:00    **Experience of the DevMap Approach to Elementary Algebra**
**Anne Dow**, Maharishi University of Management

2:30    **Infinite Series for Logarithms using Cyclotomic Polynomials and Aurifeuillian Identities**
**Marc Chamberland**, Grinnell College

3:00    **Association Schemes Are Everywhere**
**Sung-Yell Song**, Iowa State University

3:30    **Programming Buttons in Mathematica**     (Note: this session is a workshop; it may run until 4:30 and will meet in Wright Hall 339.)
**Al Hibbard**, Central College


**Concurrent Session of Contributed Papers 5      Wright Hall 10**

2:00    **Trisecting an Angle**
**Phil Wood**, Baxter, Iowa

2:30    **An information-theoretic approach to demography.**
**Jonathan D. H. Smith**, Iowa State University

3:00**    **Octagon Loops**
**Emily Wergin**, Grinnell College

3:30**    **Comparing the SAT and ACT**
**Ben Jones**, Grinnell College