## The $\mathbf{2 2}^{\text {nd }}$ Annual Rose-Hulman Conference on Undergraduate Mathematics

## Friday, March 18, 2005

12:00 p.m. - 1:30 p.m.: Lunch in the Main Dining Room in the Hulman Memorial Union

## Contributed Student Papers

|  | GM Room, B-111 in Moench Hall |
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| $\mathbf{1 : 3 5 - 1 : 5 5}$ |  |
| p.m. | Modeling the Photochemical Transformation of Dissolved Organic Matter from an <br> Antarctic Lake <br> Jennifer Guerard, Rose-Hulman Institute of Technology |
| $\mathbf{2 : 0 0 - 2 : 2 0}$ <br> p.m. | The Road Coloring Problem <br> Matthew Phillips, University of Evansville |
| $\mathbf{2 : 2 5 - 2 : 4 5 ~}$ | The Knight's Closed Tour on a Chessboard <br> p.m. |

2:45-3:00 p.m.: Coffee, Soda, and Snack Break, GM Room
Refreshments sponsored by the University of Michigan Biostatistics Program
Students who are interested in this program are encouraged to see Dr. Jeremy Taylor who has additional information about this program. He has a table set up at the top entrance to the GM Room.

Contributed Student Papers

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| GM Room, B-111 in Moench Hall |  |
| 3:00-3:20 p.m. | The Feasibility of Noah's Ark <br> Tammy J. Johns, Siena Heights University |
| 3:25-3:45 p.m. | Sequences, Ratios, and Multiplying Rabbits <br> Elizabeth Blankenship, Benedictine University |
| 3:50-4:10 p.m. | Orthogonality in the Conjugate Gradient Method <br> Justin Droba, Rose-Hulman Institute of Technology |

4:15-4:30 p.m.: Coffee, Soda, and Snack Break, Outside of Room E-104, Moench Hall Refreshments sponsored by the University of Michigan Biostatistics Program

4:35-5:45 p.m.: Invited Speaker Presentation, Room E-104, Moench Hall Would-Be Worlds: Toward a Theory of Complex Systems John Casti, Institute for Monetary Economics, Technical University of Vienna and Commodicast, Inc.

5:55-7:00 p.m.: Dinner in the Kahn Room in the Hulman Memorial Union
7:15-8:15 p.m.: Invited Speaker Presentation, Room E-104, Moench Hall When does a mathematical question become a philosophical question?
Chris Pincock, Purdue University

## 8:30 - ?: Student and Faculty Parties

Faculty party: To be held at Dr. Inlow's
Student party: To be held at Rose

## Saturday, March 19, 2005

8:00-8:55 a.m.: Donuts, coffee, and other snacks in Crapo-Moench Commons Area
9:00-10:00 a.m.: Invited Speaker Presentation, Room E-104, Moench Hall
THE BORDERLINE: On the Limits to Scientific Knowledge
John Casti, Institute for Monetary Economics, Technical University of Vienna \& Commodicast, Inc.
Contributed Student Papers

|  |  | Room G-219, Crapo Hall |
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| $\mathbf{1 0 : 1 0 - 1 0 : 3 0 ~ a . m . ~}$ |  | What's a quasi p-group? <br> Jesse Pratt, Northern Kentucky University |
| $\mathbf{1 0 : 3 5 - 1 0 : 5 5}$ a.m. | Coxeter Groups and Finiteness Properties <br> Seth Case, University of Illinois |  |

10:55-11:10 p.m.: Coffee, Soda, and Snack Break, Room G-220
Book gifts for student speakers displayed in Crapo-Moench Commons Area
Contributed Student Papers

|  | Room G-219, Crapo Hall | Room G-221, Crapo Hall |
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| 11:10-11:30 <br> a.m. | Knot Knot K Equals K <br> Rachelle Barr, Siena Heights University | Title <br> Peter Fine, Rose-Hulman <br> Institute of Technology |
| 11:35-11:55 <br> a.m. | Black Box Linear Algebra: The Search for an <br> Efficient Rank Preconditioner <br> Austin Somers, Devin Chalmers <br> Wabash College |  |

12:10-1:30 p.m.: Lunch \& Book Gifts, The Worx in the Hulman Memorial Union

We gratefully acknowledge support for this year's conference from funding through the MAA and the NSF grant DMS-0241090.

