

# The 22<sup>nd</sup> 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**

	<b>GM Room, B-111 in Moench Hall</b>
<b>1:35-1:55 p.m.</b>	<i>Modeling the Photochemical Transformation of Dissolved Organic Matter from an Antarctic Lake</i> Jennifer Guerard, Rose-Hulman Institute of Technology
<b>2:00-2:20 p.m.</b>	<i>The Road Coloring Problem</i> Matthew Phillips, University of Evansville
<b>2:25-2:45 p.m.</b>	<i>The Knight's Closed Tour on a Chessboard</i> Rozalia Tadjer, Goshen College

## **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**

	<b>GM Room, B-111 in Moench Hall</b>
<b>3:00-3:20 p.m.</b>	<i>The Feasibility of Noah's Ark</i> Tammy J. Johns, Siena Heights University
<b>3:25-3:45 p.m.</b>	<i>Sequences, Ratios, and Multiplying Rabbits</i> Elizabeth Blankenship, Benedictine University
<b>3:50-4:10 p.m.</b>	<i>Orthogonality in the Conjugate Gradient Method</i> 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
<b>10:10-10:30 a.m.</b>	<i>What's a quasi <math>p</math>-group?</i> Jesse Pratt, Northern Kentucky University
<b>10:35-10:55 a.m.</b>	<i>Coxeter Groups and Finiteness Properties</i> 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
<b>11:10-11:30 a.m.</b>	<i>Knot Knot <math>K</math> Equals <math>K</math></i> Rachelle Barr, Siena Heights University	<i>Title</i> Peter Fine, Rose-Hulman Institute of Technology
<b>11:35-11:55 a.m.</b>	<i>Black Box Linear Algebra: The Search for an Efficient Rank Preconditioner</i> Austin Somers, Devin Chalmers Wabash College	

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

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