## 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**

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

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

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