

*The 26<sup>th</sup> Annual Rose-Hulman Conference on Undergraduate Mathematics*  
**Detailed Daily Schedule**

**Schedule of Events for Friday, March 27, 2009**

**10a.m. – 1:30 p.m.: Registration in Hadley Hall**

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

**1:30 p.m. – 1:40 p.m.: Welcome, E-104 Dr. Art Western, Vice President for Academic Affairs and Dean of Faculty**

**1:40 p.m.-2:40 p.m.: Invited Speaker Presentation, E-104 Moench Hall**

*HAM SANDWICHES AND HAIRY COCONUTS -- AN ALGEBRAIC TOPOLOGIST'S FEAST, Dr. Christine Stevens*

**2:45 p.m. -3:15 p.m.: Coffee, Soda, and Snack Break, G220 Crapo Hall**

**Contributed Student Papers**

	<b>Room G221</b>	<b>Room G222</b>
<b>3:30-3:50 p.m.</b>	<i>A Tabu Search Algorithm for the Bandwidth Multicoloring Problem</i> Jason Sauppe	<i>Schroeder's Functional Equation for Linear Fractional Maps on the Ball</i> Elizabeth Sweeney
<b>4:00 – 4:20 p.m.</b>	<i>The Theta Complex of Graphs</i> Sara Evans	<i>On the Embedding of Degree Sequences on the Projective Plane and Torus</i> Bonny Jain

**4:20 p.m. -4:40 p.m.: Coffee, Soda, and Snack Break, G220 Crapo Hall**

**Contributed Student Papers**

	<b>Room G221</b>	<b>Room G222</b>
<b>4:40- 5:00 p.m.</b>	<i>Can You Count?: A Look at Expected Scenarios by Way of a Quantitative Computer Simulation of the Ancient African Game Mancala</i> Darrin Weber and Robert Arn	<i>Content-Based versus Semantic-Based Image Retrieval: A LIDC Case Study</i> Sarah Jabon

**5:30 – 6:45 p.m.: Dinner in the Faculty Dining Room in the Hulman Memorial Union**

**7:00-8:00 p.m.: Invited Speaker Presentation, Room E-104, Moench Hall**

*HEY, YOU KIDS! TURN UP THAT NOISE... Kelly Black and John Geddes, Dr. Kelly Black*

**8:30 - ? : Student and Faculty Parties in the Hulman Memorial Union. The Student Party will be in the Faculty Dining Room, and the Faculty/Guest Party will be in the Performing Arts Room.**

## Schedule of Events for Saturday, March 28, 2009

**8:00 a.m. – 8:55 a.m.: Donuts, coffee, and other snacks in Crapo-Moench Commons Area**

\*Book gifts for **student speakers** on display (submit list of preferences).

**9:00 a.m. – 10:00 a.m.: Invited Speaker Presentation, GM Room Moench Hall**

*MATHEMATICAL WAYS AND CONGRESSIONAL MEANS, Dr. Christine Stevens*

### **Contributed Student Papers**

	<b>G221</b>	<b>G222</b>
<b>10:10 - 10:30 a.m.</b>	<i>From Graph Theory to Formal Language Theory</i> Harley Eades III	<i>Origami Axiom 6: Solving Cubic Equations and Trisecting Angles</i> Sheng Ting Lin
<b>10:40 – 11:00 a.m.</b>	<i>Enumerating Plane Partitions of Integers</i> Jordan Phegley	<i>The Educational Black-White Achievement Gap: Significant Factors in a Static State Intergenerational Model</i> John Wang

**11:00 - 11:20 a.m.: Coffee, Soda, and Snack Break, G220 Crapo Hall**

### **Contributed Student Papers**

	<b>G221</b>	<b>G222</b>
<b>11:20-11:40 a.m.</b>	<i>Lattice Geometry</i> Peter Nebres	<i>Vertical transmission in epidemic models of sexually transmitted diseases with isolation from reproduction</i> Tim Olson
<b>11:50–12:10 p.m.</b>	<i>PROBLEM SOLVING IN ELEMENTARY MATHEMATICS: The IMO and the Putman Competition</i> Vladislav Kontsevoi	<i>Synthetic Proof of the Cevian Nest Theorem”</i> Igor Minevich

**12:15 – 1:30 p.m.: Lunch & Book Gifts in the Kahn Room in the Hulman Memorial Union**

Access to the wireless network can be obtained by using the username and password: **mathconf-guest**

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