The 27th Annual Rose-Hulman Conference on Undergraduate Mathematics
Detailed Daily Schedule

Schedule of Events for Friday, 26 March 2010

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, Moench Hall
Matt Branam, President of Rose-Hulman Institute of Technology

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

From Differentials to Limits: Fleeting Flirtations and Lingering Loyalties
Dr. Robert E. Bradley, Adelphi University

2:45 p.m. – 3:15 p.m.: Coffee, Soda, and Snack Break, Room G-220, Crapo Hall

Contributed Student Papers

	Room G-219, Crapo Hall	**Room G-221, Crapo Hall**	**Room G-222, Crapo Hall**
3:30 – 3:50 p.m.	*Combating Noise in Imaging Systems* Bobby Arn	*Greater Than Sudoku and Partially Ordered Sets* Katherine Varga	*Examining the Relationship Between Teachers' Images of Mathematics and Their Mathematics History Knowledge.* Ryan Bowman & Kris Wease
4:00 – 4:20 p.m.	*Protein Structure Alignment* Kyla Lutz	*A brief examination of the Dedekind Number* Michael Lopez	*Mathematical Induction* Amanda McGlone

4:20 p.m. – 4:40 p.m.: Coffee, Soda, and Snack Break, Room G-220, Crapo Hall

Contributed Student Papers

	Room G-219, Crapo Hall	**Room G-221, Crapo Hall**	**Room G-222, Crapo Hall**
4:40 – 5:00 p.m.	*A Model of Semi-Rational Behavior in Asset Markets* John Wang	*Algebraic Tori* Arnold Yim	*Vector Spaces and Their Impostors* Abby McKee

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

Good News Everyone! Mathematical Morsels from The Simpsons and Futurama
Dr. Sarah Greenwald, Appalachian State University

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

<u>**Schedule of Events for Saturday, 27 March 2010**</u>

8:00 – 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 – 10:00 a.m.: Invited Speaker Presentation, E-104, Moench Hall

Rubik's Cube Games on Spheres: Geometry of Spherical Orbifolds
Dr. Sarah Greenwald, Appalachian State University

Contributed Student Papers

	Room G-219, Crapo Hall	**Room G-221, Crapo Hall**	**Room G-222, Crapo Hall**
10:10-10:30 a.m.	*Matching Preclusion and Conditional Matching Preclusion for Bipartite Networks* Philip Hu	*Nearly Normal Tridiagonal Matrices* Ben Mackey	*How generic is 2^n? A computational approach.* Andrew Fork
10:40-11:00 a.m.	*Evaluation of a novel approach to the solution of the nonlinear Riccati equation* Eric Angelton & Tyler Foxworthy	*Undirected Graphs of Hermitian Matrices that Admit Only Two Distinct Eigenvalues* Matt Grimm	*Multi-touch methods* Joel Parrish

11:00 – 11:20 a.m.: Coffee, Soda, and Snack Break, Room G-220

Contributed Student Papers

	Room G-219, Crapo Hall	**Room G-221, Crapo Hall**	**Room G-222, Crapo Hall**
11:20-11:40 a.m.	*In Defense of the Pentagon* Robin Rice	*Eigenvalue Density Distribution of Random Non-Hermitian Matrices with Purely Real Spectra* Bill Karr	*When does quarantine make things worse?* Krista Schaefer
11:50-12:10 p.m.	*A Simple Decagon Construction* Scott Rexford	*Cut-Sets in Zero-Divisor Graphs of Finite Commutative Rings* Darrin Weber	*Modeling Segregation of Neighborhoods with Three Types of Individuals* Mark Burek

12:15 – 1:30 p.m.: Lunch & Book Gifts in The Worx in the Hulman Memorial Union

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