The 29th Annual Rose-Hulman Conference on Undergraduate Mathematics
Detailed Daily Schedule

Schedule of Events for Friday, 13 April 2012

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
> Bill Kline, Interim Dean of Faculty and Professor of Engineering Management
> Rose-Hulman Institute of Technology

1:40 p.m. – 2:40 p.m.: Invited Speaker Presentation, E-104, Moench Hall
> *Why Math is Fun: Convergence, Connections and the Great Unknown*
> Dr. Judy Holdener, Kenyon College

2:45 p.m. – 3:00 p.m.: Soda and Snack Break, Room G-220, Crapo Hall

Contributed Student Presentations

	Room G-219, Crapo Hall	Room G-221, Crapo Hall	Room G-222, Crapo Hall
3:10 – 3:30 p.m.	*Pascal to the Rescue* Adam Lewis		*Good or Bad: Altering Admission Standards* Mark Woods
3:40 – 4:00 p.m.	*To Construct a Hyperbolic Triangle…* Scott Rexford	*d-Nice Numbers* David Irwin	*Predicting Retention of Marginally Admitted Students* Morgan Perkins

4:00 p.m. – 4:20 p.m.: Soda and Snack Break, Room G-220, Crapo Hall

Contributed Student Presentations

	Room G-219, Crapo Hall	Room G-221, Crapo Hall	Room G-222, Crapo Hall
4:20 – 4:40 p.m.	*Mercury pollution: Modeling Around the A.B. Brown and Gibson Generating Stations* Matthew Harris	*Connections between Central Sets and Cut Sets in Zero-Divisor Graphs of Commutative Rings* Lane Bloome	*Building Predictive Models in Absence of Theory* Trent Tabor
4:50 – 5:10 p.m.	*Hortonian scaling of maximum flow in non-idealized river basins* Trent Tabor, Chase Mathison, James Folberth	*Statistical Analysis of Prime Factors* Aaron Davis	*Optimizing Beam Selection in Radiotherapy* Jill Shuman

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
> *LEGO: The Intersection of Art and Engineering*
> Mr. Andy Milluzzi, Rose-Hulman Institute of Technology

8:30 – ?: Student and Faculty Parties. The Student Party will be in *Chauncey's Game Room*, and the Faculty/Guest Party will be at the home of Drs. Leanne and Al Holder. (See folder for directions.)

<u>**Schedule of Events for Saturday, 14 April 2012**</u>

8:00 – 8:55 a.m.: Donuts, coffee, and other snacks in the 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
Perfect and Abundant Numbers – a Perfect and Abundant Source for Undergraduate Research Projects
Dr. Judy Holdener, Kenyon College

Contributed Student Presentations

	Room G-219, Crapo Hall	**Room G-221, Crapo Hall**	**Room G-222, Crapo Hall**
10:10-10:30 a.m.	*A Mathematical Model for the Baking Process – A Phenomenological Approach* Andrew Harris	*Understanding Coulomb Potential: An Unproven Array of Points* Meagan Ryan	*Robustness Test for a Protein Alignment Algorithm* Jacki Simon
10:40-11:00 a.m.	*Breaking Down the Riemann Hypothesis* Chelsey Barron	*The U.S. Life Insurance Industry: Time Series Analysis* Jackie Buhrman	*An Introduction to Object Oriented Design Principles and Their Benefit to Mathematicians* Joseph Gasper

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

Special Sessions

	Room G-219, Crapo Hall	**Room G-221, Crapo Hall**	**Room G-222, Crapo Hall**
11:20-12:10 p.m.	*Graduate Student Panel* Michael Fitzpatrick, Trenton Schirmer, Brian Shourd Greg Zynda	*Q&A about a Career in Actuarial Science* Brad Jones	*Stick With It! (Why math matters now more than ever.)* Andrew Rourke

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