ISMAA 2012 Annual Meeting Friday Schedule

8:30-11:45 State Farm Hall of Business 131
8:45 am - 11:45 am Pre-Conference Workshop: An Interactive Tour of Public Key Cryptography (and of Number Theory) Joshua Holden, Rose-Hulman Institute of Technology
12:15 pm -4:45 pm Registration State Farm Hall of Business Atrium
12:50 pm -2:00 pm Introductions and Plenary Talk: Michael Axtell, University of St. Thomas. A Picture's Worth a Thousand Words: Zero-Divisor Graphs and Rings. SFHB 139 – Caterpillar Auditorium
2:15 pm - 3:15 pm Concurrent Sessions

State Farm Hall of Business 131	State Farm Hall of Business 132	State Farm Hall of Business 148	State Farm Hall of Business 149	Start Times
M. Vali Siadat *What are the best ways to stimulate students' intellectual curiosity and affect deep learning? What is the role of modern technology?*	**Dan Hrozencik** *Undergraduate Research Projects Focusing on the Comparison of Boolean and Continuous Dynamics of Gene Networks*	**Michael Carlyle** *Direct Sums for Graph Automorphisms*	**Brian Hoffman** *Cryptography using Elliptic Curves*	2:15 PM
	Vince Matsko *Teaching Mathematics as Art*	**Sandra Tovalin-Schmidt** *Vibrational Spectroscopy and Group Theory*	**Maria Radcliffe** *A Node-Weighted Model for the Spread of a Non-Indigenous Species*	2:35 PM 2:45 PM
		Trisha Russo *Reproductive Strategies Compared to a General Model of Fecundity*	**Enela Aliaj** *An Edge-weighted Model for the Spread of a Non-indigenous Species*	2:55 PM

3:30 pm-4:30 pm Concurrent Sessions

Jeremy Alm *Rigor in College Algebra?!*	**Ken Clemens** *LEARNING MATHEMATICS AT ILLINOIS STATE NORMAL UNIVERSITY*	**Natalia Poniatowska** *Security of a Message Authentication Scheme based on Quasigroups*	**Miranda Henderson** *Comparison of Boolean Versus Continuous Dynamics on Three-gene Regulatory Networks*	3:30 PM
	Neirda Ellerton *MISCONCEPTIONS ABOUT YOUNG ABRAHAM LINCOLN'S SCHOOL MATHEMATICS ACHIEVEMENTS*	**Sabrina Allen** *On 2-fold G-designs where G has order at most 4 and edge-multiplicity 2*	**Marihan Hegazy** *Comparison of Boolean Versus Continuous Dynamics on Four-gene Regulatory Network*	3:50 PM 4:00 PM
		Peter Wiese *Modeling Spiking in Neurons with a Poisson Process*	**Benjamin Studer** *Parametric equations for video games*	4:10 PM

4:45 pm - 5: 45 pm Business Meeting
4:45 pm- 6:00 pm Student Contest
6:15 pm Student Pizza Party State Farm Hall of Business Atrium
6:15: Cash Bar Opens Alumi Center 116
6:45 Banquet Alumni Center 116
7:30 Plenary Talk: Joshua Holden, Rose-Hulman Institute of Technology. Braids, Cables, and Cells: An Interesting Intersection of Mathematics, Computer Science, and Art

ISMAA 2012 Annual Meeting Saturday Schedule

8:30 am - 11:00 am Registration State Farm Hall of Business Atrium

8:30 am - 9:30 am Plenary Talk: Holly Gaff, Old Dominion University. Impact of migration patterns on tick-borne disease expansion. SFHB 139 – Caterpillar Auditorium

9:45 am - 10:45 am Concurrent Sessions

State Farm Hall of Business 131	State Farm Hall of Business 132	State Farm Hall of Business 133	State Farm Hall of Business 148	State Farm Hall of Business 149	Start Times
Todd Oberg	**Andrew Leahy**	**Ellen Ziliak**	**Bohdan Khomtchouck**	**Gonzalo Landeros**	9:45 AM
	Using SMS Texts to Communicate with Students in Mathematics Courses	*Coset Enumeration and Modified Coset Enumeration an Approach to Group Extensions*	*A Laplacian Derivation of Zipf's Law*	*An Android App for a Homophonic Password Generator*	
			Jessica Klister	**Kiran Munir**	10:05 AM
A Calculus of Mathematics Certification	**David Barker**	**Ryan Bunge**		*Stream Cipher and Watermarking Methods in the Medical Field*	10:15 AM
			On Rosa-type labelings of directed graphs		
			Sreevidya Bodepudi	**Joseph Buchanan**	10:25 AM
	Implementing Mathematics Research Experiences into Teacher Preparation Programs	*On lambda-fold Rosa-type Labelings and Cyclic Graph Decompositions*	*The Dynamics of an SIR Model with Constant and Pulse Vaccination with Horizontal and Vertical Transmission*	*On d-modular labelings of the union of two cycles*	

11:00 am-12:00 pm Concurrent Sessions

State Farm Hall of Business 131	State Farm Hall of Business 132	State Farm Hall of Business 133	State Farm Hall of Business 148	State Farm Hall of Business 149	Start Times
Jim Olsen	**Wesley Calvert**	**Anthony DeLegge**	**Edward Price**	**Ellen Sparks**	11:00 AM
	Algebra and Logic of Random Variables	*An Epidemic Model with a Multi-Stage Vaccine*	*Building Group Extensions Storing Only 2-Cocycles for Relators*	*On 2-fold graceful labelings*	
			Andreana Holowatyj	**Seerat Hassan**	11:20 AM
Common Core Math Standards and Teacher Education Session	**William Green**	**Andrew Mansheim**	*Hextile Planar Isotopy and Reidemeister Moves*	*The Dynamics of Continuous andImpulsive SIR-SVS Epidemic Models*	11:30 AM
			Alexander Sistko	**Katherine Hunzinger**	
	Integrating factors and repeated roots of the characteristic equation	*Easy and 2 Plus 2: A Simple Yet Thought-Provoking Investigation*	*Tau-N Factorizations in the Integers*	*The Dynamics of an Impulsive Two-Prey One-Predator System*	11:40 AM

12:10 - 1:10 Plenary Talk: Annalisa Crannell, Franklin & Marshall Collge. Math and Art: The Good, the Bad, and the Pretty. SFHB 139 – Caterpillar Auditorium

1:10 Box Lunch Available at Registration Desk for those who placed orders

1:15-3:15 ISMAA Project NExT Post-Conference Session, Cindy Traub, Chair