PROGRAM for the Indiana Section MAA FALL MEETING 2012
Butler University
Saturday, October 27, 2012
Gallahue and Pharmacy Halls

8:00–8:40 Gallahue Lobby	Registration
8:40-2:30 Pharmacy Room 106B	MAA Book Sale
8:40-8:45 Gallahue Room 108	Welcome by Dr. Stuart Glennan Associate Dean, College of Liberal Arts & Sciences, Butler University
8:45-9:45 Gallahue Room 108	**Sam Wagstaff, Department of Computer Science, Purdue West Lafayette** *The Search for Aurifeuillian-Like Factorizations in the Cunningham Tables* Introduction: Mel Royer

Contributed talks		
Room	Pharmacy Room 202 Moderated by: Robert Merkovsky	Pharmacy Room 205 Moderated by: Mel Royer	Pharmacy Room 212 Moderated by: Justin Gash
10:00-10:25 (25 min)	**Explore International Math Opportunities for Teaching, Scholarship, and Service** Ron Benbow		**Board and Card Games in Finite Mathematics** Derek Thompson (*)
10:30-10:55 (25 min)	**An Abstract Encoding of Surfaces Tiled by Parallelograms** Drew Reisinger (**)		**Why Did I Ever Choose This Major?** Derek Linn (**)
11:00-11:25 (25 min)	**An Algebraic Approach to Geometric Proof Using a Computer Algebra System** Michael Xue	**Quantum Mechanics from a Geometric Point of View** Barbara Sanborn	Indiana Project NExT Panel Session **Inquiry Based Learning**
11:30–11:50 (20 min)	**Roshambo and Other Games** James Carter (*)	**Solutions to a Model for Heat Conducting Flow** Matthias Youngs (*)	Mindy Capaldi Dana Ernst Robert Talbert Moderator: Stacy Hoehn

- student talks: (*) graduate student; (**) undergraduate student

12:00–1:00 Eidson-Duckwall Recital Hall Ford Salon	Lunch
12:00–1:00 Pharmacy Room 202	Executive Committee Meeting

Contributed talks		
Room	Pharmacy Room 202 Moderated by: Robert Merkovsky	Pharmacy Room 205 Moderated by: William Lindsey	Pharmacy Room 212 Moderated by: Justin Gash
1:10– 1:30 (20 min)	**Coset Extensions of Real Numbers** Horia Petrache	**Resequencing Calculus: An Early Multivariate Approach** Mark Gruenwald	**The Probability that a Polynomial with Integer Coefficients Has All Real Roots** Lirong Yuan (**)
1:35- 1:50 (15 min)	**Estimating the Total Number of STD Patients in Large Community by Using Multistage Sampling Techniques** Hengshuo Zhang (**)	**Toward the Maximum and Minimum Symmetry of Order 24 Groups--"Bug" Analogy** Dennis Collins	**Estimating the Abundance of Clustered Animal Population by Using Adaptive Cluster Sampling and Negative Binomial Distribution** Yizhou Bo (**)

- student talks: (*) graduate student; (**) undergraduate student

2:00–3:00 Gallahue Room 108	**Paul Zorn, Department of Mathematics, St Olaf College & MAA President** *Picturing Analysis* Introduction: Mel Royer

GENERAL ADJOURNMENT -- See you March 29-30, 2013 at Indiana University East!