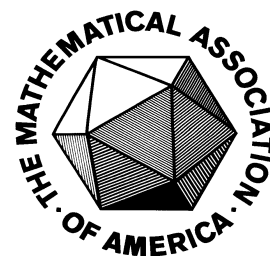
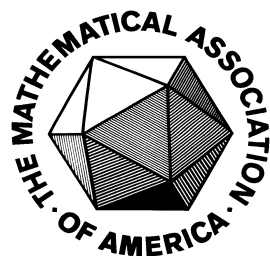


Student Contributed Paper Sessions

Eastern Pennsylvania and Delaware Section of
the Mathematical Association of America

Dickinson College

April 6, 2013



Session I-A: Undergraduate Student Talks (Stafford Auditorium)

- 1:15 *Mathematics of Knight's Tour*
Carrie Siu, Joo Young Choi, University of the Sciences in Philadelphia
- 1:27 *Digital Roots and the Development of a Strategy for a Nim-like Game*
Julia Hodge, Elizabethtown College
- 1:39 *Doing Math While Waiting for Dinner*
Ellen Lowy, Elizabethtown College
- 1:51 *Algorithm for Sudoku Generating Program*
Xiang Li, Bloomsburg University
- 2:03 *A Generalization of the Game of Shove*
Brian Stoyell-Mulholland, West Chester University
- 2:15 *Playing Games on Graphs*
Ryan Becker, Gettysburg College

Session I-B: Undergraduate Student Talks (Tome 115)

- 1:15 *Continued Fractions as Solutions to Pell's Equation*
Marc Besson, Dickinson College
- 1:27 *Classification of Symbolic Dynamics for One-dimensional Dynamical Systems
with overlapping regions*
Yujia Zhou, Dickinson College
- 1:39 *Finite-element solution of the Poisson-Pressure equation*
John Edwardson, Temple University
- 1:51 *Prejudicial Rates: An Analysis of the Loss Ratio in Auto Insurance*
Elizabeth Wolf, Stephanie Jamerson, Arcadia University
- 2:03 *Qualitative Techniques in Modeling*
Lauren Ellenberg, Arcadia University
- 2:15 *The Midge Classification Problem*
Ralph Beishline, Jacob Jacavage, Sarah Reed, Bloomsburg University

Session I-C: Undergraduate Student Talks (Tome 117)

- 1:15 *Axiom System*
Sean Bromiley, King's College
- 1:27 *Axiomatics*
Karen Perez, King's College
- 1:39 *Axiom System*
Jessica McDermott, King's College
- 1:51 *Cantor Set*
Alan Dyson, Elizabethtown College
- 2:03 *Archimedes and his approximation of $\sqrt{3}$*
Tyler Derr, Penn State Harrisburg
- 2:15 *Symmetries of Fibonacci Points, Modulo m*
Josh Updike, Patrick Flanagan, Shippensburg University
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Session II-A: Undergraduate Student Talks (Stafford Auditorium)

- 2:45 *Charlotte Angas Scott: Breaking Barriers for Women in Mathematics*
Rebecca Thompson, Dickinson College
- 2:57 *A Century Old Proof: Tracking the Proof of the Poincare Conjecture*
Travis Brown, Dickinson College
- 3:09 *Maps, Math, and Mercator*
Katie Roy, Dickinson College
- 3:21 *The Effectiveness of Homework on Achievement in Linear Algebra*
Catherine Matta, Cabrini College
- 3:33 *Temple University Math Circle*
Brian Filips, Lara Leggio, Temple University
- 3:45 *Are Resampling Techniques the Future of Statistics?*
Zachary Baker, Harrison Stoll, Arcadia University

Session II-B: Undergraduate Student Talks (Tome 115)

- 2:45 *Elliptic Curve Cryptography*
Taryn Shank, Elizabethtown College
- 2:57 *Minimum Sunset Size*
Karena Genzlinger, Gettysburg College
- 3:09 *Truncated Pyramid: A Problem from the Moscow Papyrus*
Alexandra Milbrand, Penn State Harrisburg
- 3:21 *Optimal Crop Rotation that the Dickinson College Farm*
Miguel Rodriguez, Dickinson College
- 3:33 *Products of Geodesic Graphs*
Rommy Marquez, Arcadia University
- 3:45 *Approximation Trigonometric Functions Using Special Angles*
Ahmad Alruhaimi, King Fahd University of Petroleum and Minerals

Session II-C: Undergraduate Student Talks (Tome 117)

- 2:45 *Math Modeling and Sustainability*
Xinyuan Dong, Bryn Mawr College
- 2:57 *Autosomal, Y chromosomal and Mitochondrial SNPS Independency and Match Probability in Forensic Science*
Yatong Li, Bryn Mawr College
- 3:09 *Stochastic and Agent Based Models of the Effect of Preventive Measures on a Nosocomial Infection*
Jayant Velagala, Ursinus College
- 3:21 *Optimization Techniques into Biological Systems*
Alexandra Signoriello, Ursinus College
- 3:33 *Using Bioinformatic Approaches to Predict Gene Expression Based on Promoter Structure in AML*
Natalie Stanley, Dickinson College
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