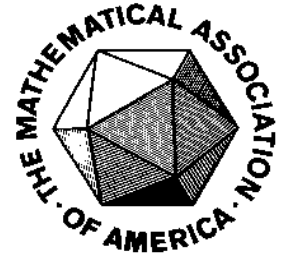
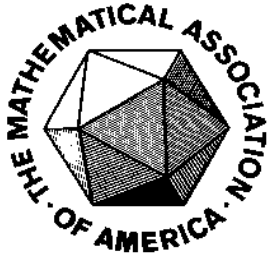


Student Contributed Paper Sessions

Eastern Pennsylvania and Delaware Section of
the Mathematical Association of America

Kutztown University

April 1, 2017



Session I-A: Graduate Student Talks (Lytle 225)

- 1:20 *Complex-Variable PDE Applications to Image Processing and Cryptography*
Matthew N. Moore, Delaware State University
- 1:40 *Finite-Difference Methods and Analysis for the Wave Equation and its Extensions*
Yahui Xiao, Delaware State University
- 2:00 *Parallelized Successive Over Relaxation method and its implementation to solve the Poisson-Boltzmann equation*
Xiaojuan Yu, West Chester University of Pennsylvania

Session I-B: Graduate Student Talks (Lytle 226)

- 1:20 *Knot Polynomials and the Information They Encode*
Samantha Pezzimenti, Bryn Mawr College
- 1:40 *Pre-service Secondary Teachers' Interpretations of Graphs of Algebraic Functions*
Jennifer Hummer, University of Delaware
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Session I-C: Undergraduate Student Talks (Lytle 206)

- 1:20 *Further Generalizations of Happy Numbers*
Simon Williams, Bryn Mawr College
2016 Winner of the Student Mathematical Papers Prize Competition
- 1:46 *Troubling Transoms!*
Gregory Bolet, Franklin and Marshall College
- 1:59 *The Magic Möbius Strip*
Yanlin Yang, Franklin & Marshall College
- 2:12 *Distance One (a,b)-Sudoku Latin Squares*
Kristina Marotta, Cedar Crest College
- 2:25 *Uniqueness in Numbrix Puzzles*
Hadley Wellen, Cedar Crest College
- 2:38 *A Mathematical Approach to the Game of Kami*
Tara Koskulitz, Michael Gottstein, Misericordia University

Session I-D: Undergraduate Student Talks (Lytle 202)

- 1:20 *Digital Topology*
Nicholas Chaump, University of Scranton
- 1:33 *A Novel Alternating Direction Implicit Method for Solving Interface Problems*
Stacy Porten-Willson, Cameron Campbell, West Chester University of Pennsylvania
- 1:46 *Mathematically Modelling the Spread of Disease*
Jennifer McGrogan, Arcadia University
- 1:59 *Using R to Compare the Power of Three Techniques for Analyzing Pretest-posttest Designs*
Matthew Marino, Qinxiao Shi, Arcadia University
- 2:12 *Techniques for Handling Missing Data*
Leanne Vicente, Arcadia University
- 2:25 *Assessing the effectiveness of Arcadia's Alcohol Education Course*
Joseph Dooney, Katie Lehnert, Arcadia University
- 2:38 *The Effect of Income Level on Social Security Benefit Commencement*
Hanna Lee, Mariya Rebkaevets, Limin Zhou, Arcadia University

Session I-E: Undergraduate Student Talks (Lytle 203)

- 1:20 *Pi's Peculiar Presence*
Austin Vantrease, Samantha Donovan, The University of The Sciences
- 1:33 *Vertex Coloring Game on Graphs*
Diego Manzano-Ruiz, Kutztown University
- 1:46 *Unique Integers on the Catalan Triangle*
Nathaniel Benjamin, Kutztown University
- 1:59 *Can Students be Successful?*
Mason Smith, Sarah Kilgore, Kutztown University
- 2:12 *SU Math Circles: Experiences Leading a Calculus Session*
Josue Murillo, Drew Barrett, Shippensburg University
- 2:25 *Friedrich Wilhelm Bessel: Mathematician and Astronomer. Making the Connections Between Mathematics and Space*
Ashley Norton, Penn State University Harrisburg
- 2:38 *The Basel Problem and the Sum of the Reciprocals of Odd Powers*
Jonathan Oster, Penn State Harrisburg

Session I-F: Undergraduate Student Talks (Lytle 204)

- 1:10 *Convergence Rates for Standard Quadrature Rules*
Kayla Novak, Elizabethtown College
- 1:23 *Mathematical Model for a Delayed Autonomous Path Following Vehicle*
Gonzalo Miguez Dominguez, Elizabethtown College
- 1:46 *Saving the Whooping Cranes, One Equation at a Time*
Rebecca Grube, Millersville University
- 1:59 *Ecological Impact of Invasive Species on Nutrient Dynamics*
Carly Files, Millersville University
- 2:12 *Analyzing and Predicting the Success of Celebrity Tweets*
Meredith Salisbury, Muhlenberg College
- 2:25 *Nash Equilibrium for eBay Best Offer Auctions*
William Britt, Muhlenberg College
- 2:38 *Bilingual Mathematics*
Mason Daniel Smith, Kutztown University
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