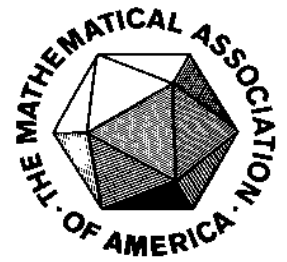
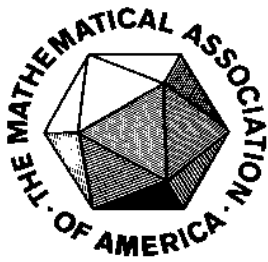


Student Contributed Paper Sessions

Eastern Pennsylvania and Delaware Section of
the Mathematical Association of America

University of the Sciences
in Philadelphia

October 25, 2014



Session I-A: Graduate Student Talks (STC 137)

- 1:00 *Uniform Refraction For Negative Refractive Index Materials*
Eric Stachura, Temple University
- 1:20 *Transcendental Numbers*
Ahmad Sabra, Temple University
- 1:40 *On the Partial Fraction of the Cotangent Function, and its Application to Riemann's Zeta Function*
Hussein Awala, Temple University

Session I-B: Undergraduate Student Talks (STC 237)

- 1:00 *Discrete Math with Chess*
Peter Tran, Harrison Price, University of the Sciences
- 1:15 *Using Discrete Mathematics to Solve Logic Puzzles*
Jacqueline Santhouse, Christina Lagnese, University of the Sciences in Philadelphia
- 1:30 *An Exploration of the Moving Sofa Problem*
Matthew Schroeder, Evan Siegel, University of the Sciences in Philadelphia
- 1:45 *Graph Theory in Chemistry*
Karly Granza, Tyler Greene, University of the Sciences

Session I-C: Undergraduate Student Talks (STC 337)

- 1:00 *Study of Genetic Algorithms using a Computer Game*
Nicholas Bilchak Stroughair, Shippensburg University
- 1:15 *Classifying Intersections of Max-Plus Hemispaces*
Kai Yee Phoebe Chua, Messiah College
- 1:30 *Math Modeling of West Africa Ebola Outbreak*
Rebecca Miller, Wesley College
- 1:45 *Split Godunov Method for Burger's Equation*
Arthur Newell, Jeremi Frazier, Delaware State University

Session II-A: Graduate Student Talks (STC 137)

- 2:00 *Finding Water-Cuts: Image Segmentation using Watershed and Graph Optimization*
Chao Zhang, Delaware State University
- 2:20 *Making Matrices Better*
Jianru Zhang, Anusha Krishnan, UPenn

Session II-B: Undergraduate Student Talks (STC 237)

- 2:00 *The Four Color Theorem*
Stephanie Mac, Shaina Kulp, University of the Sciences
- 2:15 *The Shackles of Mathematics*
Timothy Julian, Penn State Harrisburg
- 2:30 *The Local to Global Principle of Apollonian Circle Packings: What It Is and How to Show It*
Benjamin Nassau, Muhlenberg College
- 2:45 *Pythagorean Theorem in Spherical Geometry*
Myles Dworkin, Muhlenberg College
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