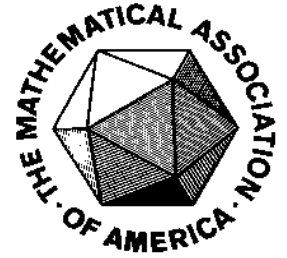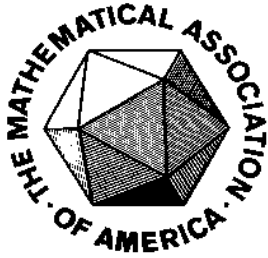# Student Contributed Paper Sessions

**Eastern Pennsylvania and Delaware Section of
the Mathematical Association of America**

Delaware Valley University
November 14, 2015

Session I-A: Undergraduate Student Talks (LFSC101)

1:10   *The Tower of Hanoi*
Catherine Deng, Gia Storti, University of the Sciences

1:23   *Pascal's Triangle*
Sabal Yousef, Ryan Paulukinas, University of the Sciences in Philadelphia

1:36   *Fibonacci Sequence*
Luke Conover, Taylor Scott, University of the Sciences in Philadelphia

1:49   *A Mathematical Analysis of M.C Escher's Art*
Amy Lai, Kimberly Waters, University of the Sciences in Philadelphia

2:02   *Triangulation: The History of Global Positioning*
Dylan Tomares, Barbara Rojas, University of the Sciences in Philadelphia

2:15   *The History and Concepts of Infinity*
Courtney Messenger, Edwin Fluck , University of the Sciences

Session I-B: Undergraduate Student Talks (LFSC102)

1:10   *Constructive Galois Theory with Linear Algebraic Groups*
          J.T. Ferrara, Bucknell University

1:23   *Predicting Alzheimer's Disease with Microarray Gene Expression*
          Data
          Trevor Adriaanse, Bucknell University

1:36   *Multiple Sclerosis, Lattitude, and Sunlight: Developing Correlations*
          between MS and the Latitude Theory
          Elizabeth Bloom , Nick Mandarano, Saint Joseph's University

1:49   *How Now Brown Tau: Finding Weakly Sum-Free Sets*
          Samuel Edwards, Gettysburg College

2:02   *Minimum size of spanning set in finite cyclic group*
          Aawaz Raj Pokhrel, Gettysburg College

Session I-C: Undergraduate Student Talks (LFSC103)

1:10   *Brownian Dynamics of a Charged Particle Passing Through a*
          Magnetic Plate
          Christopher Tran, Arthur Newell, Delaware State University

1:23   *Effects of Fourier Series and Transformations on Chemistry*
          Lauren Rusiloski, Delaware Valley University

1:36   *Prescribing Drug Dosage*
          Karla Keler, Ruth Trubnik, Delaware Valley University

1:49   *Mathematical Modeling in the Food Industry: A Model of Heat*
          Transfer by Conduction
          Erin Nese, Ruth Trubnik, Delaware Valley University

Session I-D: Undergraduate Student Talks (LFSC104)

1:10   *Reimann Sums*
Craig Siekierka, Misericordia University

1:23   *On the Differences between Consecutive Prime and Semi-prime Numbers*
Sharif Moustafa, Muhlenberg College

1:36   *Completely Puzzling Latin Squares*
Shantel Silva, Villanova University

1:49   *Coinbinatorics*
Jiao Xu, Kutztown University

Session I-E: Graduate Student Talks (LFSC105)

1:10   *Graph Cut Energy Minimization Techniques for Image Segmentation*
Shana Brown, Delaware State University

1:30   *Reaction Kinetics in Optical Biosensors*
Ryan Evans, University of Delaware

1:50   *Analysis of the Chebyshev Spectral Collocation Method for Numerical Solutions of Non-Linear Partial Differential Equations*
Matthew Neil Moore, Delaware State University

2:10   *Synthetic Shape Segmentation using Snakes*
Azubuike Okorie, Delaware State University