Student Contributed Paper Sessions



Eastern Pennsylvania and Delaware Section of the Mathematical Association of America

University of Scranton

April 26, 2014



Session I-A: Undergraduate Student Talks (LSC 233)

10:45	Applications of Graph Theory in Real Life Abigail Baltz, Milos Djordjevic, Dong Bin Choi, University of the Sciences in Philadelphia
10:57	A Mathematical Model of the Cardiovascular System Joshua Ray Jimenez, University of Scranton
11:09	Mathematical Model of Mesenchymal Stem Cell Differentiation Brittany Boribong, University of Scranton
11:21	Modular Arithmetic and the Number Derivative Brianna Weiner, Arcadia University
11:33	A Monte Carlo Analysis Comparing ANCOVA, Gain Scores, and Post-test Only Methodologies Veronika Bailey, Yevgeniy Olkhov, Arcadia University

11:45 *Three-way ANOVA with Follow-up Simple Effects Analyses* AnnJosette Ramirez, Arcadia University

Session I-B: Undergraduate Student Talks (LSC 334)

10:45	Mathematical Theory of Dynamic Task Allocation in Social Insects Ivan L Kent, University of Scranton
10:57	A Short Introduction to Vaught's Conjecture Francis George, University of Scranton
11:09	A Monte Carlo Simulation Approach to Determine the Greatest Post-Season Players Abigail Stryker, Muhlenberg College
11:21	Penny Auctions, Decision Weights and Revenue Jarrett Felix, Muhlenberg College
11:33	Congruence Conditions of Integral Apollonian Packings Benjamin Nassau, Muhlenberg College
11:45	Zaremba and Hensley: Continued Fractions and Congruence Obstructions Emily Nguyen, Muhlenberg College

Session II-A: Undergraduate Student Talks (LSC 233)

2:45	Exploring an Iterated Function on Integer Partitions James Siene, King's College
2:57	An Axiom System Abby McManus, King's College
3:09	A New Algorithm for Computing Inverses in Modular Arithmetic Shen Lu, Christina Doran, Lebanon Valley College
3:21	Reducing Pest Damage in Agroecosystems Using Optimal Control Theory Cara Sulyok, Ursinus College
3:33	Symmetries in the Fibonacci Sequence, mod m Patrick Flanagan, Joshua Updike, Shippensburg University

Session II-B: Undergraduate Student Talks (LSC 334)

2:45	Proving Bolzano-Weierstrass Theorem and Sequence Convergence Brittany Kowalewski, Wesley College
2:57	Writing Codes for a Computer-Assisted Program Riza Bautista, Wesley College
3:09	Do You Know Different Forms of Induction? Yitong Huang, Franklin and Marshall College
3:21	Chaos Theory and Fractals Yichao Li, Franklin & Marshall College
3:33	Constructing 17-gon Alex Zhang, Franklin and Marshall College

Session II-C: Graduate Student Talks (LSC 433)

2:45	Maya Calendars in the Classroom
	Megan Rehm, Millersville University

3:09 *The Wizardry of Whitney's Theorem* Samantha Pezzimenti, Hannah Schwartz, Bryn Mawr College