MAA Intermountain Section Conference 2014, Utah Valley University

Friday March 28, 2014

Time	Teaching Session :SB 246	Integration Bee SB 260	Applied Math Session A: SB 263	Applied Math Session B: SB 268
2:20 pm	**Matt Lewis** Authentic Mathematics on Target		**Dakota Hawkins, Newman Knowlton, and Alex Graves** O Captain! My captain!	**Ammon Washburn** Modeling wave propagation through metamaterials
2:40	**Brendan Kelly** Intermediate Algebra		**Jacob Duncan** Predicting Severity and Periodicity of Mountain Pine Beetle Outbreaks	**Mike Snyder & Dave Brown** A dynamic representation of a homeless network
3:00	**Piotr Runge** Interactive Visualizations using Geogebra		**Jason Adams** The Stability of the Steady State Solutions of a Predator-Prey Model having Holling type II response.	**Joe King** Burning Down the Cost: A Study to Optimize Wild fire Expenses
3:20	**Danae Romrell** The Role of Worked Examples in Mathematics Instruction		**Brennon Bauer, and Amy Gifford** A Stable Semi-Implicit Numerical Scheme for a Competition Model Arising in Math Biology	**Alyssa Nugent** This was part of the COMAP Mathematical Contest in Modeling (MCM), Problem B
3:40	**Richard Pieper** Common Core State Standards – Implications for Higher Education		**Jianlong Han** Long-term behavior and numerical analysis of a nonlocal evolution equation with Kac potentials	**Kathleen Schut & Dempsey Rogers** MCM B. Keep Right Except to Pass
4:00	**Emma (Turner) Schafer** Counting: As easy as 1-2-6		**Ram Neupane** Mathematical Model of Active Seed Dispersal by Frugivorous Birds and Speed of Invasion	**Seth Armstrong** A Stable Numerical Scheme for System of Competing Species with Diffusion
4:20	**Sum Chow** Is There a Pot of Gold in a Metamaterial World?		**Sergio Ramirez** Agent Based Modeling Approach for Sterile Insect Technique Simulation	**Elise Hardle** Exploring the Wave Equation in Finite Domains
4:40	**Kay Litchfield** A Significant High School Algebra Exercise – Sines (and Cosines) of 3N Degrees		**Sarah Reehl** Errors and Assays: The Story of the Little n That Could	**David Brown** "Hall's Stable Marriage Theorem" revisited and revised to recognize same-sex relationships

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Saturday March 29, 2014

Time	Graduate Student Session: SB 246	Undergraduate Student Session B: SB 260	Undergraduate Student Session A: SB 263	Pure Math Session: SB 268
9:45	**Sean Bailey and David E. Brown** Aliens vs Zombies: An Introduction to Bipartite Dot Product Groups	**Matt Brown** An application of the Group-Weights Theorem	**Ian Kessler** An Exploration of Quadratic Residues in Finite Fields	**Leonard Bakker** Open Sets of Diffeomorphisms with Trivial Centralizers in the C^1 Topology
10:05	**Trevor Williams** The Game of Thrones	**Christopher Bott** FJRW Theory: Classification of A-model Polynomials and Symmetry Groups	**Dan Adams and Kristin Smith** Ends of Cayley Graphs of $\mathbf{Z}$ With Infinite Generating Sets	**T.H. Steele** Attractions for Iterated Function Schemes
10:25	**William Cocke** Cohomology of Congruence Subgroups of SL(3,Z) below the Cohomological dimension	**John Gardiner and Ryan Sandberg** Comparing Chains to Other Polynomials to Better Understand Mirror Symmetry	**Dan Gulbrandsen** The Hyperbolicity of Cayley Graphs of $\mathbf{Z}$ With Infinite Generating Sets	**Scott Lewis** Constructing Conjugacies Between Unimodal Maps
10:45	**Skyler Simmons** The restricted n-body Problem	**Lisa Bendall** Defining the Transpose in Landau-Ginzburg Mirror Symmetry	**Steffan Larsen** Space Filling Curves and Their Applications with Metamaterials	**Jonathan Tyler** Quaternions vs. Euler Angles: A Vector Rotation Comparison –Applied
11:05	**Andrew Misseldine** Primitive Idempotents of Schur Rings	**Nathan Cordner** Transpose Polynomials and Symmetry Groups	**Jesse Hicks** Algebraic Properties of Killing Vectors for Lorentz Metrics	**Dan Jones, Dustin Pierpont, Yifei Zhu** Slower-Traffic-Keep-Right Rule