

Student Talks

2007 Allegheny Mountain Section Meeting at Mercyhurst College

	Hirt 207	Hirt 212	Hirt 213	Hirt 214	Hirt 313	Hirt 314
8:15 – 8:30	Sarah Orris Summation of a certain class of infinite series	Nicole Pernischova Convergence of Finite Approximations to the Solutions of Infinite Systems of Linear Equations	Jared Burns The Integrability of 1-Forms on \mathbb{R}^3	Alison Bish & Tiffany Riggelman Can the Game of Craps be Simulated on a Computer?	Brian Bischof & Andrew Periello On the Images of Non-Constant Integer Coefficient Polynomials	Rebecca Myers "Tweaking" the Fundamental Theorem
8:35 – 8:50	Jesse Stimpson A Modeling Study of Idiopathic Intracranial Hypertension (IIH) using a Starling Linear Resistor	Patrick Plunkett Curvature and Torsion in Random Knots	Jesse Stratton Photomosaics	Jenna L. Roth History of the Platonic Solids	Curtis Yenyo The Dimension of the Coast of Westminster's Lake Britain: A Look at Fractal Dimensions	Shauna Knarr A Digit Shifted, Sums of Digits Sequence
8:55 – 9:10	Joe Pleso The Game of Go and Surreal Analysis	Amanda Sgroi Morphological Image Processing	Joe Espisito Partial Differential Equations for Image Decomposition	Zach Curran & Andy Cotherman Shape functions in one and two dimensions and solving a one dimensional heat equation.	Philip McCormick Continued Fractions and the Fermat-Pell Equation	Brittany Parker Determining Recommended Levels of Harvest on Pacific Halibut
9:15 – 9:30	Malorie Winters Hopf Bifurcations on a Scavenger/Predator/Prey System	Jeromy Sivek Non-Euclidean Metrics in Gaussian Process Models	Jeremy Sopko A Coupled Oscillator Model Applied to the Spinal Cord of a Sea Lamprey	Jerime Pichler Simplified coding for a 1D heat equation and a 2D example using LISA a FEA code	Clarissa Mirkovich Finding the Best Seat	
9:35 – 9:50	Sam Marvit Stabilizing the population dynamics of a host-parasite system by host immigration	Dylan Hower Mathematical Methods in Grain Boundary Detection	Amy Brem A Statistical Breakdown of NFL Betting Lines and Outcomes			