

FACULTY TALKS

2013 Allegheny Mountain Section Meeting at Indiana University of Pennsylvania

| | Stright 231 | Stright 232 | Stright 240 | Stright 327 | Stright 329 | Stright 331 | Stright 333 | Stright 340 |
|-------------|--|---|--|---|--|--|---|---|
| 10:15–10:30 | Jason McCarty What is Algebraic Topology? | Alfred Dahma A Norm Inequality for Matrices | J. Lyn Miller “Reverse” Tasks in Mathematics for Elementary Teachers | Peter Olszewski The Use of Exam Wrappers to Motivate Student Learning | Papiya Bhattacharjee Ring Extensions | John Crispell High Performance Computing Resources and XSEDE | Dan Radelet Funny Powers: Discrete Calculus on Rising Factorials | Marshall Whittlesey A course in Spherical Geometry for Undergraduates |
| 10:35–10:50 | Ivko Dimitric Classification of 2-Type Hopf Hypersurfaces of Complex Projective Space | Boon Ong Difference Equation from Askey-Wilson Structure Equation | Melissa Sovak An Alternate Approach to Teaching Introductory Statistics | Shelly Bouchat Cell Phones: Classroom Distraction or Classroom Attraction? | Larry Feldman Negabinary Numbers | Brian Sharp and Ed Donley Incorporating 3D Printing into Your Classroom | Gary Stoudt Hippocrates Quadrature of a Lune and Calculus | Kate Overmoyer Teaching Analysis: Reflections on a First Experience |
| 10:55–11:10 | Larry Downey A Solution to a Question of Walter Rudin | Duane Farnsworth The Numerical Range of a Matrix | Terry Blakney Project Ideas for Teaching Statistics | Adam Nogaj Impact of Online Scheduling on Math Center Use | Dan Shifflet Why 6174 is (Currently) my Favorite Number | Jeff Wheeler A Fermat’s Last Theorem for Polynomials | Greg Wisloski Pricing of Convertible Bonds as Derivatives | Douglas Puharic A Freshmen Course: The Mathematics of Baseball |
| 11:15–11:30 | Adam Roberts An Example of a Bijective, Continuous Function from a Topological Space to Itself that is Not a Homeomorphism | Daniel Galiffa and Jennifer Ulrich Developing a Discrete Analogue of the Time-Independent Schrödinger Equation via Discrete Orthogonal Polynomial Sequences | David Offner A New Lower Bound for a Variation of Cops and Robber on the Hypercube, with an Application to Graph Searching | Ryan Higginbottom Priming the Pump: Using Reading Assignments to Foster Efficient, Flexible Class Periods | Leandro Junes and Rigoberto Florez A Conjecture about Triangular Numbers and Prime Numbers | Ed Donley Using Fundamental Algebra and Calculus Concepts for Image Processing | Michael Woltermann The Average Area of a Triangle in a Parabolic Sector | Heather Parizek Math 097: Improving Retention in Pre Calculus and Calculus Course Through Small Group Tutoring at Penn State DuBois |