## Schedule of Student and Faculty Talks MAA Allegheny Mountain Section Spring 2003 Meeting

## Smeal 151

8:00-8:15	Lee J. Steen, Penn State Erie Using Matlab and Geometric Shapes to use in Calculating Left Ventricle Stroke Efficiency from 3-D Sonometric Data and Aortic Flow Data	
8:20-8:35	Eric J. Knox, Penn State Erie Calculations of Left Ventricle Volume from Sonometric Data and Filling Tetrahedrons	
8:40-8:55	Chuck Burchard, Penn State Erie Russian Peasant Multiplication and an Efficient Algorithm for Integer Division	
9:00-9:15	Richard Brazier, Penn State DuBois An Easy Recursive Formula for Computing the Partial Fraction Decomposition	
9:20-9:35	John Lattanzio, Indiana Univ. of Pennsylvania Vertex Critical Graphs Containing No Critical Edge	
9:40-9:55	Gregor Olsavsky, Penn State Erie  Just a Little Lie	
Smeal 149		
8:00-8:15	Michael Piatek, Duquesne University Getting Knotty in Parallel	
	Gennig Mony in Furance	
8:20-8:35	Amy C. Ulinski, Duquesne University Play the Guessing Game: What is That Boolean Function?	
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8:40-8:55	Amy C. Ulinski, Duquesne University Play the Guessing Game: What is That Boolean Function?  David E. Moore, Edinboro University Comparing Western and Vedic Methods for Partial Fraction Decomposition: A Western Proof of the Vedic Method  Amy Hensler, West Liberty State College	

## Smeal 148

8:00-8:15	Joseph Worthington, Slippery Rock University Unusual Definitions of Distance
8:20-8:35	J. Lyn Miller, Slippery Rock University A Sampler of Activities for Use with Elementary Education Majors
8:40-8:55	Patrick Stephenson, Penn State Erie A Three-Species, Predator/Prey Food Cycle
9:00-9:15	Jennifer Mendes, Penn State Erie Restrictions on Difference Sets in Groups of Order 676
9:20-9:35	Andrew Sobotka, Penn State Erie Calculating Left Ventricle Stroke Efficiency from Aortic Flow and Ventricular Pressure Data
9:40-9:55	Amanda Hovis, Penn State Erie Can calculus techniques help to predict stock market fluctuations?
10:00-10:15	Fabrizio Polo, Allegheny College Application of Graph Theory to the Genoa Lottery Problem
	Smeal 146
8:00-8:15	<b>Kevin Culp,</b> Westminster College Strategy for NCAA College Football Overtime Games
8:20-8:35	Joshua Caplinger, Westminster College Activity Networks
8:40-8:55	Emily Deah, Westminster College Cutting Polyominos
9:00-9:15	Sarah Plimpton, Westminster College Getting to the Core of Packing
9:20-9:35	<b>Daniell Toth,</b> Juniata College A Mathematics of Finance Course for the Liberal Arts College (with Example)
9:40-9:55	Joe Paullet, Penn State Erie Animating Solutions of ODEs

## Smeal 147

8:00-8:15	Jason Wable, Indiana Univ. of Pennsylvania The Singularity
8:20-8:35	<b>Yu-Ju Kuo,</b> Indiana Univ. of Pennsylvania Interior Point Methods and Second Order Cone Programming
8:40-8:55	<b>Brian Hunter,</b> Allegheny College The Busy Beaver Function and Noncomputability
9:00-9:15	<b>Tom Everest,</b> Allegheny College <i>Primes of the Form 2k+1, 4k+1, and 2kp+1 for Odd Primes p</i>
9:20-9:35	Charles Redmond, Mercyhurst College Circuit Tournaments, the Mean Value Theorem, and the NFL
9:40-9:55	Paul Becker, Penn State Erie Do Normal Subgroups Have Straight Tails?
10:00-10:15	<b>John Thompson,</b> University of Pittsburgh at Johnstown <i>It's More Than a Game</i>
	Smeal 141
8:00-8:15	<b>Gerald Kruse,</b> Juniata College Teaching Discrete Structures to First Semester Computer Science and Information Technology Majors
8:20-8:35	James Sellers, Penn State University Two Families of Plane Partitions: TSSCPPs and CSTCPPs
8:40-8:55	<b>Barbara Power,</b> Penn State Erie Calculus I Student Project: An Exploration of Indeterminate Limits and L'Hopital's Rule
9:00-9:15	Kim Roth, Wheeling Jesuit University Testing Definitions – The Beginning of an Exploration
9:20-9:35	Javier Gomez-Calderon, Penn State University Products of Dickson Polynomials
9:40-9:55	Patrick Headley, Gannon University Tableaux and Freudenthal's Formula