

Mathematical Association of America
MD-DC-VA Section, November 6 & 7, 2014
St. Mary's College of Maryland – St. Mary's City, Maryland
Schedule of Speakers

Friday, November 6

Friday activities for Section NExT will be held in Daugherty-Palmer Commons.

Time	Location	Event
2:30 – 3:50	185 Goodpaster Hall	Section Officers Meeting
4:00 – 6:00	117 Goodpaster Hall	Workshop: <i>Euclid's Elements Across the Modern Curriculum</i> Edwin O'Shea James Madison University
6:00 – 7:00	Daugherty- Palmer Commons	Registration
6:00 – 7:00	Daugherty- Palmer Commons	Reception
7:00 – 8:00	Daugherty- Palmer Commons	Welcoming Remarks Laraine Glidden, Provost St. Mary's College of Maryland Banquet Dinner
8:00 – 9:00	Daugherty- Palmer Commons	Banquet Address: <i>Opt Art</i> Robert Bosch Oberlin College

Schedule of Speakers

Saturday, November 7

Saturday activities for Section NExT will be held in 109 Schaefer Hall.

Time	Location	Event
8:30 – 12:00	Lobby Goodpaster Hall	Registration
8:30 – 3:30	Atrium Goodpaster Hall	MAA Book Sale
8:30 – 9:20	Coffee Bar Goodpaster Hall	Coffee / Tea / Water
8:50 – 9:10		Contributed Papers, Session 1
	109 Goodpaster Hall	Amy Shell-Gellasch, Montgomery College <i>The Spherometer: Bringing Right Triangles into the Classroom</i>
	117 Goodpaster Hall	Phong Le, Goucher College <i>An Inquiry-Based Crash Course in Proofs</i>
	184 Goodpaster Hall	Brian Heinold, Mount St. Mary's University <i>Smalltalk: A Student-Faculty Colloquium</i>
	186 Goodpaster Hall	Nathaniel Schwartz, Washington College <i>Involutions of G_2 over fields of characteristic 2</i>
	198 Goodpaster Hall	Graduate Student: Ashlee Edwards, Old Dominion University <i>Oncolytic Virus Dynamics: Analysis of a Mathematical Model of Tumor Growth Using Oncolytic Viruses as Treatment</i>
9:15 – 9:35		Contributed Papers, Session 2
	109 Goodpaster Hall	Bob Sachs, George Mason University <i>A Transition to Proof Course (under construction) Centered on Complex Algebra and Analysis</i>
	117 Goodpaster Hall	David Clark, Randolph-Macon College <i>Geometry in 18th Century Japan: Exploring and Creating Sangaku</i>
	184 Goodpaster Hall	Nicholas Martin, Shepherd University <i>Using Identities to Solve Equations</i>
	186 Goodpaster Hall	Dylan Poulsen, Washington College <i>Can an Unstable Control System Be Stabilized By Timing Noise?</i>
	198 Goodpaster Hall	Graduate Student: Jonathan Graf, University of Maryland, Baltimore County <i>Singly Diagonally Implicit Runge-Kutta schemes within the Numerical Solution of Partial Differential Equations</i>
9:45 – 10:55	Cole Cinema Campus Center	Welcoming Remarks Dave Kung, Professor of Mathematics St. Mary's College of Maryland Invited Address: <i>The Ubiquity of Mathematical Biology</i> Talitha Washington Howard University
11:05 – 11:25		Contributed Papers, Session 3
	109 Goodpaster Hall	Keith Mellinger, University of Mary Washington <i>First-Year Seminar in Mathematics, part 1</i>

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	117 Goodpaster Hall	Jill Tysse, Hood College <i>Sonia Kovalevsky Day at Hood College</i>
	184 Goodpaster Hall	Ray Cheng, Old Dominion University <i>An Extension of the Pythagorean Theorem</i>
	186 Goodpaster Hall	Ming Fang, Norfolk State University <i>Binary numbers and its issues in implementation</i>
	198 Goodpaster Hall	Graduate Student: Yarong Feng, The George Washington University <i>Degree Profile of Hierarchical Lattice Network</i>
	111 Schaefer Hall	Undergraduate Student: Jessica Poffenberger, Shepherd University Undergraduate Student: Zulfiya Muradova, Shepherd University Undergraduate Student: Peter Hopkins, Shepherd University <i>A Mathematical Model of West Nile Virus</i>
11:30 – 11:50		Contributed Papers, Session 4
	109 Goodpaster Hall	Randall Helmstutler, University of Mary Washington <i>First-Year Seminar in Mathematics, part 2</i>
	117 Goodpaster Hall	Jessica OShaughnessy, Shenandoah University <i>Mastery Based Assessment in Calculus</i>
	184 Goodpaster Hall	Bruce Torrence, Randolph-Macon College <i>Left Center Right - An Update</i>
	186 Goodpaster Hall	Abdinur Ali, Norfolk State University Chung-Chu (George) Hsieh, Norfolk State University Mushtaq Khan, Norfolk State University <i>Performance Metrics for Machine Learning Algorithms</i>
	198 Goodpaster Hall	Graduate Student: Cheng Zhang, The George Washington University <i>Measuring Identification Risk in Microdata Release and Its Control by Post-randomization</i>
	111 Schaefer Hall	Undergraduate Student: Evan Clough, Hood College <i>The History of the Unsolvability of Hilbert's Tenth Problem</i>
12:00 – 1:00	Coffee Bar Goodpaster Hall	LUNCH
1:10 – 1:55	Cole Cinema Campus Center	Meeting of the General Membership
2:05 – 3:05	Cole Cinema Campus Center	Invited Address: <i>A 'Mod'ern Mathematical Adventure in <u>Call of Duty: Black Ops</u></i> Heidi Hulsizer Hampden-Sydney College
3:00 – 4:00	Coffee Bar Goodpaster Hall	Coffee / Tea / Water
3:15 – 3:35		Contributed Papers, Session 5
	109 Goodpaster Hall	Donna Dietz, American University <i>Sonobe Origami for enriching understanding of geometric concepts in three dimensions</i>
	117 Goodpaster Hall	Mitchel T. Keller, Washington and Lee University <i>IBL Introduction to Proofs in Four Weeks: A Survivor's Tale</i>

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	184 Goodpaster Hall	Bud Brown, Virginia Tech <i>The nonnegative integers are ... a field??</i>
	186 Goodpaster Hall	Ilhan M. Izmirlı, George Mason University <i>A Passage through Brobdingnag: René Descartes and the Differential Calculus</i>
	198 Goodpaster Hall	Qing Wang, Shepherd University Zhijun Wang, Shepherd University David J. Klinke, West Virginia University <i>A Calibrated Model for an Immuno-Chemotherapy to Treat Colon Cancer</i>
3:40 – 4:00		Contributed Papers, Session 6
	109 Goodpaster Hall	Eva Strawbridge, James Madison University <i>Creating an Interdisciplinary Undergraduate Research Lab at the Interface of Math and Biology</i>
	117 Goodpaster Hall	Katherine Socha, Park School of Baltimore <i>Shaping learning by doing: teaching topology to accelerated high school students</i>
	184 Goodpaster Hall	Gwyneth Whieldon, Hood College <i>Combinatorial Games: Open Problems and Computation Approaches</i>
	186 Goodpaster Hall	Eve Torrence, Randolph-Macon College <i>The Structure of “Day”</i>
	198 Goodpaster Hall	Undergraduate Student: Chris Lloyd, University of Mary Washington <i>Non-commutative Key Exchange Protocols with Generalized Dihedral Groups</i>
4:05 – 4:25		Contributed Papers, Session 7
	109 Goodpaster Hall	Brian Bradie, Christopher Newport University <i>Population Ecology: A Linear Algebra Supplement</i>
	117 Goodpaster Hall	Alice Petillo, Marymount University <i>Investigating the Impact of Out-of-Classroom Events on Undergraduate Students</i>
	184 Goodpaster Hall	Cassie Williams, James Madison University <i>Maximizing market share: A real-world example of Lagrange multipliers</i>
	186 Goodpaster Hall	Susan Goldstine, St. Mary's College of Maryland <i>Knitting Branches Out: A Geometric Exploration in Fiber</i>
	198 Goodpaster Hall	Undergraduate Student: Zulfiya Muradova, Shepherd University Undergraduate Student: Jessica Poffenberger, Shepherd University <i>A Calibrated Model and Analysis for Ebola Outbreaks</i>