

Mathematical Association of America
 MD-DC-VA Section, April 15-16, 2016
 Montgomery College – Germantown, Maryland
 Schedule of Speakers

Friday, April 15

Time	Location	Event
2:30 – 3:50	200 Bioscience Education Center	Section Officers Meeting
4:00 – 6:00	151/152 Bioscience Education Center	Workshop: <i>Introduction to Process Oriented Guided Inquiry Learning (POGIL) in Mathematics Classrooms</i> Laurie Lenz Marymount University
6:00 – 7:00	First-floor Lobby Bioscience Education Center	Registration
6:00 – 7:00	151/152 Bioscience Education Center	Reception
7:00 – 8:00	151/152 Bioscience Education Center	Welcoming Remarks Dr. DeRionne P. Pollard, President Montgomery College Banquet Dinner
8:00 – 9:00	151/152 Bioscience Education Center	Banquet Address: <i>Rays, Waves and Rainbows: A brief tour through some mathematical history</i> John Adam Old Dominion University

Saturday, April 16

Saturday morning activities for Section NExT will be held in Room 107, Bioscience Education Center.

Time	Location	Event
8:00 – noon	First-floor Lobby Bioscience Education Center	Registration
8:00 – 9:00	First-floor Lobby Bioscience Education Center	Coffee / Tea / Water
8:00 – 3:30	First-floor Lobby Bioscience Education Center	MAA Book Sale

Schedule of Speakers

8:10 – 8:30		Contributed Papers, Session 1
	110 Bioscience Education Center	Hongwei Chen, Christopher Newport University <i>MAA Journal Problem Solving --- The great value in teaching, learning and research</i>
	157 Bioscience Education Center	Mary Wall, Montgomery College <i>Calculating the Surface Area of Smooth Manifolds Embedded in 4 Dimensions</i>
	158 Bioscience Education Center	Paul Janiczek, Virginia Military Institute <i>John Conway's Game of Life Implemented in MS Excel</i>
	160 Bioscience Education Center	Student: Tyler Hoffman, McDaniel College <i>Hausdorff Dimension of Generalized Fibonacci Word Fractals</i>
	162 Bioscience Education Center	Student: Chris McEligot, St. Mary's College of Maryland <i>Examining Elliptic Curves for Cryptographic Use</i>
	163 Bioscience Education Center	Student: Zachary Pisano, Loyola University Maryland <i>A Multivariate Statistical Analysis of Bullet Velocity</i>
8:35 – 8:55		Contributed Papers, Session 2
	110 Bioscience Education Center	Jennifer Magee, University of Mary Washington <i>Calculus: something fun for high school students to do on a Saturday</i>
	157 Bioscience Education Center	Prasad Senesi, The Catholic University of America <i>An algebraic approach to voting manipulation</i>
	158 Bioscience Education Center	Randall E. Cone, Salisbury University <i>Video Games and Mathematics: Visualizing Automata</i>
	160 Bioscience Education Center	Student: Jared Gruber, Virginia Military Institute Student: Connor Norris, Virginia Military Institute <i>Analysis of Water Conservation and Usage in Drought Areas</i>
	162 Bioscience Education Center	Student: Amos Kern-Perets, St. Mary's College of Maryland <i>Commercializing Charity: Agent Based Dynamics of Digital Crowdfunding</i>
	163 Bioscience Education Center	Student: Christopher Broll, Loyola University Maryland <i>Exact Values of Gamma Star Function</i>
9:00 – 9:20		Contributed Papers, Session 3
	110 Bioscience Education Center	Jerome Dancis, University of Maryland <i>The international PISA Math Test shows that students need instruction in multi-step Arithmetic word problems.</i>
	157 Bioscience Education Center	Jathan Austin, Salisbury University <i>A Problem in Three-Digit Addition</i>
	158 Bioscience	Raina Robeva, Randolph-Macon College <i>Boolean models in population biology? You better believe</i>

Schedule of Speakers

	Education Center	<i>it!</i>
	160 Bioscience Education Center	Student: Emily Adams, Virginia Military Institute Student: Will Johnston, Virginia Military Institute <i>Space Junk Removal</i>
	162 Bioscience Education Center	Student: Kyle Flanagan, St. Mary's College of Maryland <i>Algebraic Dynamics of a One-Parameter Family of Cubic Rational Functions</i>
	163 Bioscience Education Center	Student: Noah Watson, James Madison University <i>Examples of Large Gaps in Contingency Tables</i>
9:05 – 9:40	107 Bioscience Education Center	Panel 1 - Inquiry Based Learning in the MD-DC-VA Section Organizer: Cassie Williams, James Madison University Organizer: Amy Ksir, United States Naval Academy Panelists: Mitch Keller, Washington and Lee University Amy Ksir, United States Naval Academy Pádraig McLoughlin, Kutztown University of Pennsylvania Cassie Williams, James Madison University
9:25 – 9:45		Contributed Papers, Session 4
	110 Bioscience Education Center	Abdinur Ali, Norfolk State University Chung-Chu (George) Hsieh, Norfolk State University Mushtaq Khan, Norfolk State University <i>Hardware Security Vulnerabilities and Cryptanalysis of Modern Data Encryption Algorithms</i>
	157 Bioscience Education Center	Nicholas Martin, Shepherd University <i>An elementary approach to linear recursions</i>
	158 Bioscience Education Center	Eva Strawbridge, James Madison University <i>Transport of fluid by rotating helices at a microscale level</i>
	160 Bioscience Education Center	Student: Ryan Poffenbarger, Virginia Military Institute <i>Hungarian Algorithm and Image Mosaicking</i>
	162 Bioscience Education Center	Student: Caleb Svobodny, St. Mary's College of Maryland <i>Vennim!: A New Intersection of Sets and Games</i>
	163 Bioscience Education Center	Student: Samantha Maillie, Salisbury University <i>A Review of Non-Small Cell Lung Cancer Post-Treatment Follow-up Imaging Procedures with PET/CT Scans Versus CT scans and the Effect on Patient Survival</i>
9:55 – 11:05	151/152 Bioscience Education Center	Welcoming Remarks Margaret Latimer, Vice President and Provost Montgomery College Invited Address: A Potpourri of Mathematics in Popular Games David Taylor

Schedule of Speakers

		Roanoke College
11:15–12:05	151/152 Bioscience Education Center	Meeting of the General Membership
11:15–12:05	114 Bioscience Education Center	Radical Dash Teams First Meeting
12:15 – 1:00	First-floor Lobby Bioscience Education Center	LUNCH
1:00 – 2:00	151/152 Bioscience Education Center	Student Jeopardy Competition
2:00 – 3:00	First-floor Lobby Bioscience Education Center	Coffee / Tea / Water
2:10 – 3:25	114 Bioscience Education Center	Radical Dash Final Event (20 minutes per team, schedule determined at the first meeting earlier in the day)
2:10 – 3:00	151/152 Bioscience Education Center	Student Poster Session See Poster Session Schedule for a List of Presenters
2:15 – 2:50	107 Bioscience Education Center	Panel 2 - <i>The Mathematical Preparation of Future High School Math Teachers</i> Organizer: Bob Sachs, George Mason University Panelists: David Carothers, James Madison University Mary Nelson, George Mason University Katherine Socha, Park School, Baltimore MD
2:15 – 2:35		Contributed Papers, Session 5
	110 Bioscience Education Center	Amy Shell-Gellasch, Montgomery College <i>Descriptive Geometry and the Jullien Models</i>
	157 Bioscience Education Center	Caroline Melles, United States Naval Academy <i>Non-special divisors on graphs</i>
	158 Bioscience Education Center	Roland Minton, Roanoke College <i>Modeling March Madness</i>
	160 Bioscience Education Center	Student: Ashley Paul, St.Mary's College Of Maryland <i>That's Not How I Learned It! Bridging the teacher/parent gap.</i>
	162 Bioscience Education Center	Student: Codie Lewis, James Madison University <i>Numerical Data Regarding the Cohen-Lenstra Conjectures on Real Quadratic Fields</i>
	163	Student: Chelsey Clement, Salisbury University

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	Bioscience Education Center	Student: Emily Marinucci, Salisbury University <i>Analysis of Best Subsets for Transfer Payloads</i>
2:40 – 3:00		Contributed Papers, Session 6
	110 Bioscience Education Center	Brant Jones, James Madison University <i>Developing problems for a history of math course</i>
	157 Bioscience Education Center	Bud Brown, Virginia Tech <i>Monthly Problem 3173, Samuel Beatty, and $1/p + 1/q = 1$</i>
	158 Bioscience Education Center	Student: Christopher Lloyd, University of Mary Washington <i>The Ko-Lee Key Exchange Protocol with Generalized Dihedral Groups</i>
	160 Bioscience Education Center	Student: Ian Miller, St. Mary's College of Maryland Student: Ryan Johnson, St. Mary's College of Maryland <i>Nice Games: Partizan Games With an Impartial Muller Twist</i>
	162 Bioscience Education Center	Student: James Dean, Hood College <i>Optimal Digital Filtering Techniques for the Analysis of Pore Water Pressure</i>
	163 Bioscience Education Center	Student: William Oehlbeck, Salisbury University Student: Jarell Hackett, Salisbury University <i>Parallel Computation in Graph Traversal Algorithms</i>
2:55 – 3:25	107 Bioscience Education Center	Panel 3 - Calculus and the HS/College Interface Organizer: Bob Sachs, George Mason University Panelists: Caren Diefenderfer, Hollins University Roland Minton, Roanoke College Mary Nelson, George Mason University
3:05 – 3:25		Contributed Papers, Session 7
	110 Bioscience Education Center	Heather Moon, St. Mary's College of Maryland <i>Heat Flow Inspiring Eigenstuff and Diagonalizability</i>
	157 Bioscience Education Center	Thomas Sonnabend, Montgomery College <i>The (Imaginary) History of (the Until Now Unknown) QED Bernoulli</i>
	158 Bioscience Education Center	Student: Peter Gartland, The Catholic University of America <i>Jordan Decomposition and Semisimple Lie Algebras</i>
	160 Bioscience Education Center	Student: Dylan Weber, St. Mary's College of Maryland <i>Raised Turning Sweepers</i>
	162 Bioscience Education Center	Student: Ahmad Nazeri, Randolph-Macon College <i>Human vs. Machine: Can computers be programmed to play chess?</i>
	163 Bioscience Education Center	Student: Graylon Wright, Salisbury University <i>A Special Case of the Converse to the Mean Value Theorem</i>
3:35 – 4:30	151/152	Invited Address: The ART of Tomography

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	Bioscience Education Center	Timothy Feeman Villanova University
4:35 - 4:50	151/152 Bioscience Education Center	Undergraduate Prize Session Including Radical Dash