Mathematical Association of America
MD-DC-VA Section, November 2 & 3, 2018
University of Mary Washington, Fredericksburg, VA
Schedule of Speakers

Friday, November 2

Time	Location	Event
2:30 – 3:50	HCC, Room 111	**Section Officers Meeting**
4:00 – 6:00	Colonnade Room, University Center	**Workshop:** *Developing Classroom Culture With Inquiry-Based Learning* **Ryan Gantner** St. John Fisher College
6:00 – 7:00	Chandler Ballroom, University Center	**Registration and Reception** **Cash Bar**
7:00 – 8:00	Chandler Ballroom, University Center	**Welcoming Remarks** **Troy Paino, President** University of Mary Washington **Banquet Dinner**
8:00 – 9:00	Chandler Ballroom, University Center	**Banquet Address:** *A Mathematical Art Gallery Tour* **Eve Torrence** Randolph-Macon College

Schedule of Speakers

Saturday, November 3

Saturday activities for Section NExT will be held in Trinkle Hall B36.

Time	Location	Event
8:30 – 12:00	Trinkle Rotunda	**Registration**
8:30 – 3:30	Trinkle Rotunda	**MAA Book Sale**
8:30 – 9:20	Trinkle Rotunda	**Coffee / Tea / Water/ Light Breakfast Items**
9:00 – 9:20		**Contributed Papers, Session 1**
	Trinkle 106A	Bob Sachs, George Mason University *A Transition/Proofs Course Based on the Complex Numbers*
	Trinkle 140	Anne M. Fernando, Norfolk State University *Modeling the Seasonal Re-emerging P. vivax Malaria in Korea*
	Trinkle 204	Kubilay Dagtoros, Norfolk State University *Large Deviation Results for Random Walks in a Sparse Random Environment*
	Trinkle 210	Riley Anderson, University of Mary Washington *Implementing Machine Learning to Improve Bertini 2.0*
9:25 – 9:45		**Contributed Papers, Session 2**
	Trinkle 106A	Laura Taalman, James Madison University *Mastery Based Grading: Infinity War*
	Trinkle 140	Abdinur Ali, Norfolk State University *Information Leak and Dispersion of AES Algorithms*
	Trinkle 204	Ilhan M. Izmirli, George Mason University *Group Theory and Atonal Music*
	Trinkle 210	Makenzie Clower, University of Mary Washington *Predicting Parameters for Bertini Using Neural Networks*
10:00 – 11:00	Dodd Auditorium, GW Hall	**Welcoming Remarks** **Keith E. Mellinger, Dean, College of Arts and Sciences** University of Mary Washington **Invited Address:** *How Much is Too Much? Axiomatic Systems and Reverse Mathematics* **Kira Hamman** Penn State, Mont Alto
11:10 – 11:30		**Contributed Papers, Session 3**
	Trinkle 106A	Tauqir Bibi, South University Loretta Alsop, South University *Making Theoretical Polynomials Real*
	Trinkle 140	Eva Strawbridge, James Madison University *N-Patch Model of Arabian Oryx Population Dynamics*
	Trinkle 204	Sujan Pant, Norfolk State University *Classification of Group von Neumann Algebras*

Schedule of Speakers

	Trinkle 210	Jenna Guenther, James Madison University Morgan Wolf, James Madison University *An Adaptive, Highly Accurate, and Efficient Parker-Sochacki Algorithm for Numerical Solutions to Large Scale Dynamical Systems*
11:35 – 11:55		**Contributed Papers, Session 4**
	Trinkle 106A	Erika Gerhold, Salisbury University Ryan M. Shifler, Salisbury University *Calculus Readiness*
	Trinkle 140	A. Vivas-Barber, Norfolk State Univ., A. Fernando, Norfolk State Univ. M. Brucal-Hallare, Norfolk State Univ., C-T Perng, Norfolk State Univ. S. Lee, Kyung Hee University *A Mathematical Model of the Obesity Epidemic*
	Trinkle 204	Ivan C. Sterling, St. Mary's College of Maryland *3D Printing and Math: Two Courses and Many Senior Projects*
	Trinkle 210	Minah Oh, James Madison University *The Value of Solid Mathematics for Computer Algorithms*
12:00 – 1:00	Trinkle Rotunda	**LUNCH**
1:05 – 1:50	Dodd Auditorium, GW Hall	**Meeting of the General Membership**
2:00 – 3:00	Trinkle Rotunda	**Refreshments**
2:00 – 2:20		**Contributed Papers, Session 5**
	Trinkle 106A	Spencer Hamblen, McDaniel College *Inquiry-Based Learning in Developmental Mathematics*
	Trinkle 140	Carl Giuffre, St. Mary's College of Maryland *Viral Load Alters Behavior of Bee Parasite Varroa Destructor*
	Trinkle 204	Neal Bushaw, Virginia Commonwealth University *Automated Conjecturing and Hamiltonicity*
	Trinkle 210	Ming Fang, Norfolk State University *Alternative Approaches to Rate Models*
2:25 – 2:45		**Contributed Papers, Session 6**
	Trinkle 106A	Katie Quertermous, James Madison University *Using Online Videos in Upper-Level Mathematics Courses*
	Trinkle 140	Jiacheng Cai, Salisbury University *A Finite Volume Alternating Direction Implicit Method for the Valuation of American Options Under the Heston Model*
	Trinkle 204	Elliott Rickenbaker, Falls Church, VA *Analysis of Parabolas*
	Trinkle 210	Ann Stewart, Hood College *It Must be Noyce, it Must be Noyce, to have NSF on Your Side!*
3:00 – 4:00	Dodd Auditorium, GW Hall	**Invited Address:** Unexpected Zetas! **Dominic Lanphier,** Western Kentucky University