Mathematical Association of America
MD-DC-VA Section, April 24-25, 2015
Roanoke College – Salem, Virginia
Schedule of Speakers

Friday, April 24

Friday activities for Section NExT will be held in the Colket Center, Patterson Meeting Room.

Time	Location	Event
2:30 – 3:50	Kime Meeting Room Colket Center	**Section Officers Meeting**
4:00 – 6:00	Pickle Meeting Room Colket Center	**Workshop:** *Building a Menger Sponge with Business Cards* **Caren Diefenderfer**, Hollins University **Meagan Herald**, Virginia Military Institute
6:00 – 7:00	Second Floor Atrium Colket Center	**Registration**
6:00 – 7:00	Second Floor Atrium/Garett Meeting Room Colket Center	**Reception (Cash Bar)**
7:00 – 8:00	Wortmann Ballroom Colket Center	**Welcoming Remarks** **Dr. Richard A. Smith, Vice President and Dean of the College** Roanoke College **Banquet Dinner**
8:00 – 9:00	Wortmann Ballroom Colket Center	**Banquet Address:** *Linear Thinking: from bracketology to computer graphics* **Tim Chartier** Davidson College

Saturday, April 25

Saturday morning activities for Section NExT will be held in Lucas Hall, Room 010.

Time	Location	Event
8:00 – noon	First Floor Lobby Lucas Hall	**Registration**
8:00 – 9:00	First Floor Lobby Lucas Hall	**Coffee / Tea / Water**
8:00 – 3:30	First Floor, North-West Atrium (near 110) Lucas Hall	**MAA Book Sale**

Schedule of Speakers

8:10 – 8:30		**Contributed Papers, Session 1**
	107 Lucas Hall	Student: Shuyan Zhan, Randolph-Macon College *China's Population & One-Child Policy*
	110 Lucas Hall	Student: Abu Kebbie-Anthony, St. Mary's College of Maryland *An Exploration into Variational Analysis for Data Denoising*
	114 Lucas Hall	Student: Hayley Harris, George Mason University *Prime Labelings of Generalized Petersen Graphs P(n,1)*
	125 Lucas Hall	Jason Rosenhouse, James Madison University *Fuzzy Knights and Knaves*
	207 Lucas Hall	Abdinur Ali, Norfolk State University Chung-Chu (George) Hsieh, Norfolk State University Mushtaq Khan, Norfolk State University *Sequential Monte Carlo methods for online network* *intrusion detection systems*
	210 Lucas Hall	Celestine Woodruff, James Madison University *Numerically exploring low Rayleigh number fluid flow using the infinite* *Prandtl number model*
8:35 – 8:55		**Contributed Papers, Session 2**
	107 Lucas Hall	Student: Katie Sipes, James Madison University *Locomotion of C. elegans in various viscosities*
	110 Lucas Hall	Student: Samantha Parsons, Roanoke College *Protecting Confidentiality and Scientific Progress Through Synthetic Data* *and Mediator Servers*
	125 Lucas Hall	Bruce Torrence, Randolph-Macon College *LCR - A New Endgame*
	207 Lucas Hall	Edwin O'Shea, James Madison University *A quick tour of Byrne's 1847 "Euclid in Color."*
	210 Lucas Hall	Boyd Coan, Norfolk State University Cherng-Tiao Perng, Norfolk State University *Fibonacci Numbers and Beyond*
9:00 – 9:20		**Contributed Papers, Session 3**
	107 Lucas Hall	Student: Demara Austin, St. Mary's College of Maryland *Sandpiles, Ferris Wheels, Avalanches, and more!*
	110 Lucas Hall	Student: Zach Enix, Virginia Military Institute Student: Leo Pineiro, Virginia Military Institute Student: Josh Grant, Virginia Military Institute *Using Bayesian Statistics to Locate Downed Planes*
	114 Lucas Hall	Hasan Hamdan, James Madison University *A Least-Squares Approach for Modeling Variance-Mean Mixtures of* *Normals*
	125 Lucas Hall	Raina Robeva, Sweet Briar College *Boolean approximations of ODE models that capture bistability*
	207 Lucas Hall	Brian Lins, Hampden-Sydney College *Whose turn is it to drive?*
	210 Lucas Hall	Minah Oh, James Madison University *Undergraduate Research in Finite Element Methods*
9:25 – 9:45		**Contributed Papers, Session 4**

	107 Lucas Hall	Student: Victoria Kelley, James Madison University *Linear Analysis of a Straight Rod With a Constitutive Relation*
	110 Lucas Hall	Student: Onyebuchi Ekenta, Washington and Lee *Runs in Permutations*
	114 Lucas Hall	Dan Kalman, American University *A discrete approach to continuous logisic growth*
	125 Lucas Hall	Hamid Semiyari, James Madison University *Approximating Solutions of Boundary Value Problems*
	207 Lucas Hall	Alex Meadows, St. Mary's College of Maryland *A New Twist on Wythoff's Game*
	210 Lucas Hall	Heidi Hulsizer, Hampden-Sydney College *Student-Produced Videos for Exam Review*
9:55 – 11:05	Massengill Auditorium Massengill Hall	**Welcoming Remarks** **Michael C. Maxey, President** Roanoke College **Invited Address:** *The Symmetric Group and Fair Division: Does Knowledge Matter?* **Brian Hopkins** St. Peter's University
11:10–11:30	Massengill Auditorium Massengill Hall	**MAA Centennial Celebration**
11:30–12:15	Massengill Auditorium Massengill Hall	**Meeting of the General Membership**
11:30–12:15	010 Lucas Hall	**Radical Dash Teams First Meeting**
12:15 – 1:00	Wortmann Ballroom Colket Center	**LUNCH**
1:00 – 2:00	Massengill Auditorium Massengill Hall	**Student Jeopardy Competition**
2:00 – 3:00	First Floor Lobby Lucas Hall	**Coffee / Tea / Water**
2:10 – 3:25	010 Lucas Hall	**Radical Dash Final Event** (20 minutes per team, schedule determined at the first meeting earlier in the day)
2:10 – 3:00	217/227 Lucas Hall	**Student Poster Session** See Poster Session Schedule for a List of Presenters
2:15 – 2:35		**Contributed Papers, Session 5**
	107 Lucas Hall	Student: Olivia Goldman, St. Mary's College of Maryland Student: Anna Steinfeld, St. Mary's College of Maryland *Modeling the Ebola Epidemic in Sierra Leone, Guinea, and Liberia*
	110 Lucas Hall	Student: Ethan Rarity, George Mason University *Prime Labelings of Generalized Petersen Graphs P(n,k) for $n \leq 50$*
	114 Lucas Hall	Joshua Ducey, James Madison University *Finite abelian groups attached to graphs*

	207 Lucas Hall	Bud Brown, Virginia Tech *Five families and a well: a new look at an old problem*
	210 Lucas Hall	Wendy Hageman Smith, Longwood University Becker Sidney Smith, Hampton Sydney College *Turbo-Charging Freshman Engagement Using a 2 or 3-Lecture Motivational Seminar on How and Why to Succeed at College Mathematics*
2:40 – 3:00		**Contributed Papers, Session 6**
	107 Lucas Hall	Student: Elizabeth Mosher, St. Mary's College of Maryland Student: Katherine Kessler, St. Mary's College of Maryland Student: Sophie Kessler, St. Mary's College of Maryland *No Need to Fear, Linear Algebra is Here!*
	110 Lucas Hall	Student: Jonathan Gerhard, James Madison University *Conjugacy Classes of GSp(2n,p)*
	114 Lucas Hall	Student: Nicolas Peek, Virginia Military Institute Student: Min-Hung Chung, Virginia Military Institute Student: Ling-Erh Wang, Virginia Military Institute *Eradicating Ebola*
	125 Lucas Hall	Roland Minton, Roanoke College *Transitivity, Voting, and Sports Ratings*
	207 Lucas Hall	Eva Strawbridge, James Madison University *Modeling Fluid Dynamics around Swimming Worms*
	210 Lucas Hall	Caren Diefenderfer, Hollins University *The 2015 Curriculum Guide from CUPM*
3:05 – 3:25		**Contributed Papers, Session 7**
	107 Lucas Hall	Student: Anna Steinfeld, St. Mary's College of Maryland Student: Jared Saltzberg, St. Mary's College of Maryland *Maps and Mirrors*
	110 Lucas Hall	Student: Alexandra Jolly, Longwood University *Geometry and Billiards*
	114 Lucas Hall	Paul Janiczek, Virginia Military Institute *Fun with Simple Paths and Circuits*
	125 Lucas Hall	Ilhan M Izmirli, George Mason University *A Pillar of Brobdingnag: René Descartes and Differential Calculus*
	207 Lucas Hall	E. T. Brown, James Madison University *Partial Metric Spaces and Separation Axioms*
	210 Lucas Hall	Katie Quertermous, James Madison University *Expanding Your Horizons at JMU: Math and Science Outreach to Middle and High School Girls*
3:35 – 4:30	Massengill Auditorium Massengill Hall	**Invited Address:** *Geometry: Old and New* **Will Traves** U.S. Naval Academy
4:35 - 4:50	Massengill Auditorium Massengill Hall	**Undergraduate Prize Session** Including Radical Dash