Mathematical Association of America
MD-DC-VA Section, November 1 & 2, 2013
Hampden-Sydney College / Longwood University
Schedule of Speakers

Friday, November 1

Note that Friday events will be held on the campus of Hampden-Sydney College. The Friday Section NExT activities will be held in The Tiger Inn on the campus of Hampden-Sydney College.

Time	Location	Event
2:30 – 3:50	218 Bagby Hall	**Section Officers Meeting**
4:00 – 6:00	217 Bagby Hall	**Workshop:** *A Beginner's Guide to Teaching a History of Math Course* **Adrian Rice** — Randolph-Macon College **Amy Shell-Gellasch** — Montgomery College & Smithsonian National Museum of American History
6:00 – 7:00	Lobby Settle Hall	**Registration**
6:00 – 7:00	Board Room Lounge Settle Hall	**Reception** Refreshments and Cash Bar
7:00 – 8:00	Board Room Settle Hall	**Welcoming Remarks** **Dennis Stevens, Provost and Dean of the Faculty** Hampden-Sydney College **Banquet Dinner**
8:00 – 9:00	Chairman's Room Settle Hall	**Banquet Address:** *The Mathematics, Magic, and Mystery of Martin Gardner* **Colm Mulcahy** Spelman College and American University

Schedule of Speakers

Saturday, November 2

Note that Saturday events will be held on the campus of Longwood University. The Saturday Section NExT activities will be held in Ruffner 256.

Time	Location	Event
8:30 – 12:00	Foyer Blackwell Hall	**Registration**
8:30 – 3:30	Foyer Blackwell Hall	**MAA Book Sale**
8:30 – 9:20	Foyer Blackwell Hall	**Pastries / Juices / Coffee / Tea / Water**
8:50 – 9:10		**Contributed Papers, Session 1**
	350 Ruffner Hall	Abdinur Ali, Norfolk State University Mushtaq Khan, Norfolk State University *Mathematical Theory of Error Detection and Error Correction Codes*
	352 Ruffner Hall	James Cook, Liberty University *Abstract Number Theory*
	354 Ruffner Hall	John McGee, Radford University *An Expository Proof of Bezout's Theorem*
	356 Ruffner Hall	Randall Cone, Virginia Military Institute *The AMC5: An Initiative by the MAA MD-DC-VA Section*
9:15 – 9:35		**Contributed Papers, Session 2**
	350 Ruffner Hall	Bud Brown, Virginia Tech *Connections Between Hamming Codes over q-element Fields and Singer Block Designs*
	352 Ruffner Hall	James Parson, Hood College *Roll Your Own Quartic Formula*
	354 Ruffner Hall	Godfred Yamoah, Norfolk State University *An Adaptive Scheme for Flow in Porous Media*
	356 Ruffner Hall	Brian Heinold, Mount St. Mary's University *Creative Approaches to Teaching Discrete Mathematics*
9:45 – 10:55	Auditorium Blackwell Hall	**Welcoming Remarks** **Dr. Charles Ross, Dean of the Cook-Cole College of Arts & Sciences** Longwood University **Invited Address:** *Snowflakes, Balloons, and the Cardiovascular System* **Lorena Bociu** North Carolina State University
11:05 – 11:25		**Contributed Papers, Session 3**
	350 Ruffner Hall	Tauqir Bibi, South University *Formulas, Skeletons, and Halloween!*
	352 Ruffner Hall	Student: Hannah Vogel, St. Mary's College of Maryland *Who You Math With: The Role of Networking in the Accomplishments of Benjamin Banneker and Maria Mitchell*

	354 Ruffner Hall	James Blowers, Retired (US Army CASCOM) *Tracking the Mail Truck, An Adventure in Graph Theory*
	356 Ruffner Hall	Cherng-Tiao Perng, Norfolk State University *On a Formula of Liouville Type for the Quadratic Form $x^2+2y^2+2z^2+4w^2$*
11:30 – 11:50		**Contributed Papers, Session 4**
	350 Ruffner Hall	Eve Torrence, Randolph-Macon College Bruce Torrence, Randolph-Macon College Colm Mulcahy, Spelman College and American University *Mathematics, Magic, and Mystery*
	352 Ruffner Hall	Student: Bailu Zhang, Liberty University *Differential Equations on Hyperbolic Numbers*
	356 Ruffner Hall	Larry Lehman, University of Mary Washington *An Arithmetic View of a Classical Calculus Problem*
12:00 – 1:00	Prince Edward Room Blackwell Hall	**LUNCH**
1:10 – 1:55	Auditorium Blackwell Hall	**Meeting of the General Membership**
2:05 – 3:05	Auditorium Blackwell Hall	**Invited Address:** *Commutativity and Collinearity: A Fundamental Connection Between Pappus and Diophantus* **Adrian Rice** Randolph-Macon College
3:00 – 4:00	Foyer Blackwell Hall	**Coffee / Tea / Water**
3:15 – 3:35		**Contributed Papers, Session 5**
	250 Ruffner Hall	Student: Dan Carroll, St. Mary's College of Maryland Student: Caroline VanBlargan, St. Mary's College of Maryland *Maps and Mirrors*
	254 Ruffner Hall	David Clark, Randolph-Macon College *The Celestial Element Method: Finding Polynomial Roots in 18th Century Japan*
	350 Ruffner Hall	Gwyneth Whieldon, Hood College *Poincaré-Betti Series of Monomial Quotient Rings*
	354 Ruffner Hall	Laura Taalman, James Madison University *JMU 3-SPACE: 3D Printing in the Classroom*
	356 Ruffner Hall	Victoria Powers, NSF and Emory University Mari Castle, Kennesaw State University *Comparing Pairwise and Election Outcomes*
3:40 – 4:00		**Contributed Papers, Session 6**
	250 Ruffner Hall	Student: Heather Chichura, Virginia Military Institute *A Traveling Bioterrorist*
	254 Ruffner Hall	Jeff Ledford, Virginia Commonwealth University *Approximating Continuous Functions with Scattered Translates of the General Multiquadratic*

	350 Ruffner Hall	Brant Jones, James Madison University *The Affine Symmetric Group*
	354 Ruffner Hall	Brian Bradie, Christopher Newport University *A Course in Mathematics for the Life Sciences*
	356 Ruffner Hall	Colm Mulcahy, Spelman College and American University *What's the Deal? Mathematics Inspired by Dealing Cards into a Pile*
4:05 – 4:25		**Contributed Papers, Session 7**
	250 Ruffner Hall	Student: Dane Lawhorne, University of Mary Washington *The Fundamental Groups of the Digital Line and Circles*
	254 Ruffner Hall	Hongwei Chen, Christopher Newport University *On Summation of Subseries of the Riemann Zeta Function*
	350 Ruffner Hall	Boyd Coan, Norfolk State University *Exterior Algebra: A Friend to R-modules over Commutative Rings*
	354 Ruffner Hall	Edwin O'Shea, James Madison University *Euclid for Thespians (and Everyone Else)*
	356 Ruffner Hall	Susan Goldstine, St. Mary's College of Maryland *Tessellations on Bead Crochet Bracelets*