Mathematical Association of America
MD-DC-VA Section, April 15-16, 2011
Randolph-Macon College
Schedule of Speakers

Friday, April 15

Time	Location	Event
2:30 – 3:45	Copley 200	**Section Officers Meeting**
4:00 – 6:00	Copley 101	**Workshop:** *A Game Theory Approach to Quantitative Literacy* **Rick Gillman** Valparaiso University
6:00 – 7:00	Copley lobby	**Registration**
	Alumni Gym	**Reception** Refreshments and Cash Bar
7:00 – 8:00	Alumni Gym	**Welcoming Remarks** **Provost Bill Franz** Randolph-Macon College **Banquet Dinner**
8:00 – 9:00	Alumni Gym	**Banquet Address:** *Faster, Safer, Healthier: Adventures in Operations Research* **Sommer Gentry** US Naval Academy

Saturday, April 16

Saturday activities for Section NExT will be held in Copley 205.

Time	Location	Event
8:00 – noon	Copley lobby	**Registration**
8:00 – 9:00	Copley lobby	**Coffee/Tea/Water**
8:00 – noon	Copley lobby	Paola Luchi State Department Representative
8:00 – noon	Copley lobby	Andy Dorsett Mathematica Representative
8:00 – 3:30	Copley lobby	**MAA Book Sale**
8:00 – 8:45	Copley 205	**Section NExT Lecture (open to all meeting attendees)** Ezra Brown, Virginia Tech *How to Give a Talk*

Schedule of Speakers

8:20 – 8:40		**Contributed Papers, Session 1**
	Copley 101	Raymond Fletcher, Virginia State University *Perfect Polygons with Irreducible Cubic Envelope*
	Copley 132	Student: Guan Wang, Randolph College *Non-repetitive Sequences and the Tower of Hanoi*
	Copley 133	Student: Patricia Bellew, James Madison University *Dynamical Periodic Orbits*
	Fox 106	Hongwei Chen, Christopher Newport University *When Harmonic meets Fibonacci*
	Fox 107	Anna Johnston, Embedics, LCC *Truncated Taylor Series, Interpolation, and the Chinese Remainder Theorem*
	Fox 108	Student: Caleb Gibson, Virginia Military Institute *Superbolas: Generalizing the Generalized Parabola*
8:45 – 9:05		**Contributed Papers, Session 2**
	Copley 101	Adrian Rice, Randolph-Macon College *A Tale of Two Surfaces: Why Ellipses Are Not Elliptic Curves (Part II)*
	Copley 132	Student: James Street, Randolph-Macon College *Finding Complete Minor-Minimal Sets Using Δ –Y Moves*
	Copley 133	Student: Geoffrey Driskell, University of Mary Washington *A Comparison of Two Derivations of the Black-Scholes Option Pricing Model*
	Copley 200	Student: Kelsie Snyder, University of Mary Washington *c-Dominating Sets for Families of Graphs*
	Fox 106	Kenneth Whipple, Georgia State University (retired) *An Efficient Way to Generate Permutations*
	Fox 107	Andy Dorsett, Wolfram Research *Mathematica 8 for Education*
	Fox 108	Student: Natalie Horvath, Roanoke College *Should I Stay or Should I Go: An Optimal Solution to the Ride and Tie Problem*
9:10 – 9:30		**Contributed Papers, Session 3**
	Copley 101	Ezra Brown, Virginia Tech *Elliptic Curves, Weierstrass, Doughnuts, and 49/20: Why Ellipses Are Not Elliptic Curves (Part III)*
	Copley 132	Student: Jessica Zlotkowski, Longwood University *Area Ratios in Euclidean Geometry*
	Copley 133	Student: Kevin Doubleday, University of Mary Washington *Application of Markov Chains to Stock Trends*
	Copley 200	Dante Manna, Virginia Wesleyan College *Expected Independence Polynomials*
	Fox 106	Heidi Hulsizer, Hampden-Sydney College *Resolutions of Determinantal Ideals*
	Fox 107	Bruce Torrence, Randolph-Macon College *The Viewable Sphere: Mathematics Meets Photography*
	Fox 108	Student: Ryan Shifler, Salisbury University *Universal Groebner Bases of Circulant Polynomial Systems*

Schedule of Speakers

9:45 – 10:50	Blackwell Auditorium	**Welcoming Remarks** **Robert Lindgren** President, Randolph-Macon College **Invited Address:** *Rubik's Cube Games on Spheres: Geometry of Spherical Orbifolds* **Sarah Greenwald** Appalachian State University
11:00–11:50	Copley 100	**Meeting of the General Membership**
11:00–11:40	Copley lobby	**Radical Dash Teams 1st meeting**
12:00 – 1:00	Copley lobby	**LUNCH**
1:00 – 2:00	Copley 100	**Student Jeopardy Competition**
2:00 – 3:30	Copley lobby	**Student Poster Session** See Poster Session Schedule for list of presenters
2:00 – 3:00	Copley lobby	**Coffee/Tea/Water**
2:15 – 2:35		**Contributed Papers, Session 4**
	Copley 101	Robb Koether, Hampden-Sydney College *How to play a game when you do not know what game you are playing*
	Copley 132	Michael Smith, Hollins University *Cone Tipping: A Cooperative Initiative in Abstract Algebra*
	Copley 133	Student: Kathryn Christian, University of Mary Washington *Mathematical and Numerical Solutions for a Heat Conduction Model*
	Fox 106	James Sochacki, James Madison University *The Newton Cannon Ball Problem is a Polynomial Problem*
	Fox 107	Dan Kalman, American University *Newton's Identities via Reverse Long Division*
	Fox 108	Rebecca Field, James Madison University *Which Sudoku boards are essentially different?*
2:40 – 3:00		**Contributed Papers, Session 5**
	Copley 101	Roland Minton, Roanoke College *Some Data Mining Cave-Ins*
	Copley 132	Robert Sachs, George Mason University *Discussion on Survey – Transition from k-12 to College*
	Copley 133	Student: Andrew Snyder-Beattie, U of Mary Washington *Dissecting Two Approaches to Energy Prices*
	Fox 106	Marcus Pendergrass, Hampden-Sydney College *Galton Meets Bayes: Prior Beliefs Inform The Scientific Method*
	Fox 107	John Nolan, American University *Math for America DC*
	Fox 108	John Lorch, Ball State *Modular Magic Sudoku*

Schedule of Speakers

3:05 – 3:25		**Contributed Papers, Session 6**
	Copley 101	Brian Heinold, Mount St. Mary's University *Iterating a discontinuous function*
	Copley 132	Jerome Dancis, University of Maryland *Statistics versus Endless Algebra for Grade 12 Math*
	Copley 133	Zhou Dong, Montgomery College *Three chords and a circle*
	Fox 106	Brian Sutton, Randolph-Macon College *Conformal Maps for Numerical Analysis*
	Fox 107	Bryan Faulkner, Ferrum College *Introductory Algebra Applets with GeoGebra*
	Fox 108	Brian Lins, Hampden-Sydney College *Liberal Arts Mathematics on a Logarithmic Scale*
3:35 – 4:30	Copley 100	**Invited Address:** *Everyday Questions, Not-So-Everyday Mathematics* **Rick Gillman** Valparaiso University
4:35 - 4:55	Copley 100	**Undergraduate Prize Session** Including Radical Dash