Mathematical Association of America
MD-DC-VA Section, November 7 & 8, 2014
Bowie State University – Bowie, Maryland
Schedule of Speakers

Note that "Student Center" refers to the Student Center on the Bowie State campus.

Friday, November 7

Friday activities for Section NExT will be held in Ballrooms B & C of the Student Center.

Time	Location	Event
2:30 – 3:50	Columbia Rm Student Center	**Section Officers Meeting**
4:00 – 6:00	Theater Student Center	**Workshop:** *Integrating Tablets into the Mathematics Classroom* **Gwyneth Whieldon** Hood College
6:00 – 7:00	Lobby Student Center	**Registration**
6:00 – 7:00	Ballrooms B & C Student Center	**Reception**
7:00 – 8:00	Ballroom A Student Center	**Welcoming Remarks** **Mickey L. Burnim, President** Bowie State University **Banquet Dinner**
8:00 – 9:00	Ballroom A Student Center	**Banquet Address:** *Unsolved: History's Greatest Ciphers* **Craig Bauer** York College of Pennsylvania

Schedule of Speakers

Saturday, November 8

Saturday activities for Section NExT will be held in the Chesapeake Room of the Student Center.

Time	Location	Event
8:30 – 12:00	Lobby Student Center	**Registration**
8:30 – 3:30	Lobby Student Center	**MAA Book Sale**
8:30 – 9:20	Lobby Student Center	**Coffee / Tea / Water**
8:50 – 9:10		**Contributed Papers, Session 1**
	Theater Student Center	Randall Cone, Virginia Military Institute *The AMC5 Pilot Event: An MAA MD-DC-VA Section Initiative*
	Ballroom B Student Center	Ray Cheng, Old Dominion University *The Best Mate Search Strategy*
	Ballroom C Student Center	Jill Tysse, Hood College *Irish Dancing Groups: Some Fun Activities for an Undergraduate-Level Abstract Algebra Course*
	Columbia Rm Student Center	Cherng-tiao Perng, Norfolk State University *Some observations on Klein quartic, groups, and geometry*
	Annapolis Rm Student Center	Hongwei Chen, Christopher Newport University *Three Real Variable Proofs of the Euler Reflection Formula*
	Ballroom A Student Center	Graduate Student: Harry Lang, Johns Hopkins University *A New Proof of the Lovasz Local Lemma*
9:15 – 9:35		**Contributed Papers, Session 2**
	Theater Student Center	Hamid Semiyari, James Madison University *An efficient Algorithm for Approximating Solutions of Two-Point Boundary Value Problems and Volterra Integrals*
	Ballroom B Student Center	Caroline Melles, United States Naval Academy *Undergraduate Capstone Projects in Graph Theory and Other Topics*
	Ballroom C Student Center	James Parson, Hood College *Constructive Arguments in an Introduction to Proofs Class*
	Columbia Rm Student Center	Emmanuel Addo, American University Ben Muirhead, American University *Every Vote Counts - Exit Poll Project*
	Annapolis Rm Student Center	Undergraduate Student: Sophia Novitzky, Virginia Tech Undergraduate Student: Mahalia Sapp, Virginia Tech *Performance Sensitivity in Vertical Geothermal Energy Harvesting Systems*
	Ballroom A Student Center	Graduate Student: Lindsey Santos Koos, Old Dominion University *Description of a Computationally Efficient Boltzmann Equation Discretization Algorithm and its Application to Broad Spectrum Neutral and Ionized Space Radiation*
9:45 – 10:55	Theater Student Center	**Welcoming Remarks** **Weldon Jackson, Provost and Vice President for Academic Affairs**

		Bowie State University
		Invited Address: *Computable Mathematics*
		Valentina Harizanov The George Washington University
11:05 – 11:25		**Contributed Papers, Session 3**
	Ballroom B Student Center	Bud Brown, Virginia Tech *Multipliers of Difference Sets and How to Find Them*
	Ballroom C Student Center	Donna Dietz, American University *Twisty Puzzles for Liberal Arts Math Courses*
	Columbia Rm Student Center	James Case, SIAM *Efficient Extraction From An Exhaustible Energy Source*
	Annapolis Rm Student Center	Undergraduate Student: Katie Sipes, James Madison University *Salt Flux Concentration in the Kidneys*
	Ballroom A Student Center	Graduate Student: Jasmine Alston, Virginia State University Mohammad Tabanjeh, Virginia State University *On The Numerical and Algebraic Techniques for Computing Matrix Determinant*
11:30 – 11:50		**Contributed Papers, Session 4**
	Ballroom B Student Center	Dan Kalman, American University *Companion Matrices and Difference Equations 2*
	Ballroom C Student Center	Gregory Hartman, Virginia Military Institute *Open Textbooks and APEX Calculus: A Final Report*
	Columbia Rm Student Center	Roman Sznajder, Bowie State University *On Completely Positive Cones*
	Annapolis Rm Student Center	Graduate Student: Shantanu Awasthi, Virginia State University Krishan Agrawal, Virginia State University Youngjin Lu, Virginia State University *Comparison of Mathematical and Empirical Modelling in Studying the Relationship Between Single Fiber and its Bundle*
	Ballroom A Student Center	Graduate Student: Dustin J. Robinson, Virginia State University *Self-inversive Group Circle Systems*
12:00 – 1:00	Ballroom A Student Center	**LUNCH**
1:10 – 1:55	Theater Student Center	**Meeting of the General Membership**
2:05 – 3:05	Theater Student Center	**Invited Address:** *Cannonballs, Triangles, and Secrets: An introduction to elliptic curve cryptography* **Larry Washington** University of Maryland
3:00 – 4:00	Lobby Student Center	**Coffee / Tea / Water**
3:15 – 3:35		**Contributed Papers, Session 5**

	Ballroom B Student Center	Amy Shell-Gellasch, Montgomery College *Ancient Indian Verse and the Powers of 2*
	Ballroom C Student Center	Bill Abrams, Longwood University *Teaching Discrete Mathematics to First Year Majors*
	Columbia Rm Student Center	Boyd Coan, Norfolk State University *Old Theorems, Alternate Proofs by Exterior Algebra*
	Annapolis Rm Student Center	Raymond Fletcher III, Virginia State University *Properties of Self-inversive Cubic Curves*
	Ballroom A Student Center	Graduate Student: Eugene Evans, Virginia State University *Predictive Modeling using Artificial Neural Networks on Polymer Composite Properties*
3:40 – 4:00		**Contributed Papers, Session 6**
	Ballroom B Student Center	Abdinur Ali, Norfolk State University Chung-Chu (George) Hsieh, Norfolk State University *Analysis of Antenna Coupling and Magnetic Fields within the Near-Field Region*
	Ballroom C Student Center	Bob Sachs, George Mason University *Teaching the Fundamental Theorem of Calculus for Better Student Understanding*
	Columbia Rm Student Center	Sara Tyler, Hawkes Learning *Learning: Anytime, Anywhere*
	Annapolis Rm Student Center	Sanju Vaidya, Mercy College Geetha Surendran, Mercy College *Applications of Graph Theory to Chemistry*
	Ballroom A Student Center	Graduate Student: John Ross, Johns Hopkins University *Blowing Bubbles in Gaussian Space*
4:05 – 4:25		**Contributed Papers, Session 7**
	Ballroom B Student Center	Ming Fang, Norfolk State University *Issues in Implementing Newton's method*
	Ballroom C Student Center	Edwin O'Shea, James Madison University *Math for Liberal Arts and the Calculus Pump*
	Columbia Rm Student Center	Spencer Hamblen, McDaniel College *Jan Term at the Joint Meetings*
	Annapolis Rm Student Center	Zheng Tong, Christopher Newport University *Equilibrants, Semipositive Matrices, Calculation and Scaling*
	Ballroom A Student Center	Graduate Student: Andrew Wills, Virginia Tech *A Glimpse at Bijective Combinatorics*