

**Mathematical Association of America
Southeastern Section
88th Annual Meeting**



**13 – 14 March 2009
Belmont University
Nashville, Tennessee**

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Annual Conference

Mathematical Association of America, Southeastern Section

<http://campus.belmont.edu/maa-se/>

Eighty-eighth Annual Meeting

Belmont University

Nashville, Tennessee

Friday—Saturday, 13—14 March 2009

Sessions will be held in Massey Business Center and Inman Health Sciences Center with the general sessions being held in Massey Performing Arts Center Auditorium.

Thursday, 12 March

Treasure Hunt Activities: Lobby Massey Business Center Check-in between 7:00-7:30. Activities starts at 7:30

Project NExT-SE Activities: Inman Health Sciences Center 211

Executive Committee Dinner and Meeting: Neely Dining Room in the Massey Business Center

Friday, 13 March

7:30—4:30 Registration: Lobby Massey Business Center

9:00—12:00 Math Jeopardy Preliminary Rounds, Massey Business Center Rooms 100 and 109

Organizers: John Harris, Jeffrey Powell, Brian Wagner

Moderators: Mike Berry, Markus Iturriaga Woelfel

8:30—11:30 Short Courses

- *Classic Calculus Labs*, Nell Rayburn, Austin Peay State University, Massey Business Center Room 104
- *Mathematics and Astronomy in Ancient Egypt and Greece*, Steve Edwards, (Southern Polytechnic State University, Massey Business Center Room 209B)
- *Writing Across the Curriculum and Writing in the Disciplines as they Relate to Mathematics*. Patrick Bahls, University of North Carolina, Asheville, Madeleine Schep, Nieves McNulty, Columbia College, Massey Business Center Room 200B
- *Sudoku Calculus*, Queen Harris, Georgia Perimeter College, Massey Business Center Room 204
- *Calculus, Statistics, and Biology: Integration through Symbiosis*, Jeff Knisley, East Tennessee State University, Massey Business Center Room 209A

11:15—12:30 Graduate School and Career Fair: Neely Dining Room in the Massey Business Center
Networking, professional development, career planning and free pizza for undergraduate students.
Special networking, professional development gathering, and free pizza for graduate students.
All faculty invited for pizza and networking; we appreciate a \$5.00 donation from faculty.

11:30—12:30 Liaisons' Luncheon. Inman Health Sciences Center Room 111

12:40—1:50 General Session I, Massey Performing Arts Center Auditorium, Martha Abell, Section Chair, presiding. Welcome and opening remarks by Bryce Sullivan, Dean of the College of Arts and Sciences, Belmont University

Invited address, David Bressoud, President of the MAA, Macalester College, *Proofs and Confirmations: The Story of the Alternating Sign Matrix Conjecture*

10:30—5:00 Exhibits: Lobby Massey Business Center
2:00—4:10 Refreshments: Lobby Massey Business Center

2:00—4:00 Workshop, *Mathematical Modeling in AP Calculus*, Daniel J. Teague, NC School of Science and Mathematics, Second VP MAA, Massey Business Center Room 104

2:00—4:00 Concurrent Special and Contributed Sessions

1. Special Session on Presentations by Beginning Faculty Session I, Organizer David Stone, Massey Business Center Room 100

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| 2:00 | 1.1 | <i>Polya's Theorem With Zeros</i> , Mari Castle, Kennesaw State University |
| 2:20 | 1.2 | <i>Permutations Almost Avoiding Two Patterns of Length 3</i> , William Griffiths IV, Southern Polytechnic State University |
| 2:40 | 1.3 | <i>Tree-Like Spaces with the Fixed-Point Property</i> , Jennifer Aust, University of Tennessee |
| 3:00 | 1.4 | <i>A villainous application of edge-colouring on graphs</i> , Sarah Holliday, Southern Polytechnic State University, Atif Abuieda, University of Dayton, David Leach, University of West Georgia |
| 3:20 | 1.5 | <i>Monty's Cognitive Dissonance</i> , Christopher Duncan, Lander University |
| 3:40 | 1.6 | <i>Jeu de taquin: the 15-puzzle</i> , Sarah Mason, Davidson College |

2. Special Session on Getting Involved in the MAA, Organizer Ellen Kirkman, Massey Business Center Room 109

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| 2:00 | 2.1 | <i>Getting Involved in the MAA</i> , Ellen Kirkman, Wake Forest University, David Stone, Georgia Southern, Ray Collings, Georgia Perimeter College |
| 2:20 | 2.2 | <i>Promoting the MAA's Science Policy</i> , Ellen Kirkman, Wake Forest University |
| 2:40 | 2.3 | <i>MAA Educational Policy</i> , David Bressoud, Macalester College |

3. Special Session on Mathematical Biology Session I, Organizer Jan Rychtar, Massey Business Center Room 200B

- 2:00 3.1 *Modeling Animal Mother-Infant Distance Proximity Over Time to Determine a Change Point in Behavior*, Lorrie Hoffman, Greg Knofczynski, Armstrong Atlantic State University, Steve Clark, SeaWorld
- 2:20 3.2 *Two Courses with Different Prerequisites and Expectations Taught Simultaneously*, Lothar Dohse, UNC Asheville
- 2:40 3.3 *Cognitive Ecology: Opportunities and Challenges*, Jeff Knisley, East Tennessee State University
- 3:00 3.4 *Using Elasticity To Assess the Effects of Precipitation on Plethodon Salamanders*, Mark Cawood, Clemson University
- 3:20 3.5 *UBM: Interdisciplinary Training of Undergraduates in Biological and Mathematical Sciences*, Tor A. Kwembe, Hyun J. Cho, Zhenbu Zhang, Jackson State University

4. Special Session on Issues in the Undergraduate Mathematics Classroom, Organizer Catherine C. Aust, Massey Business Center Room 204

- 2:00 4.1 *Scaling Graphs of Curves to Demonstrate Behavior*, Jeffrey Clark, Elon University
- 2:20 4.2 *Using Mathematical Uncertainties to Encourage Critical Thinking*, Mike Pinter, Belmont University
- 2:40 4.3 *A Roadblock in Understanding Math Induction Proofs*, David Steele, Univ of No Carolina at Asheville
- 3:00 4.4 *Non-STEM Major Students' Challenge to Precalculus*, Hyounkyun Oh, Sujin Kim, Savannah State University
- 3:20 4.5 *A Comparison of Two Modes of Delivery for College Algebra*, Jack Morrell, Gyuheui Choi, Atlanta Metropolitan College
- 3:40 4.6 *Students' Reaction Towards Cooperative Group Learning in Reform College Algebra*, Karen Watson, Samuel Cartwright, Fort Valley State University

5. Special Session on History of Mathematics, Organizer Paul Baker, Massey Business Center Room 209A

- 2:00 5.1 *Analysis-and-Synthesis: Reviving the Ancient Method of Mathematical Discovery*, Damon Scott, Francis Marion University
- 2:20 5.2 *Exploring Mathematics from the Khmer Empire*, Paul Baker, Catawba College
- 2:40 5.3 *How to Draw a Straight Line and Other Linked Problems*, Tonja Miick, Tom Richmond, Western Kentucky University
- 3:00 5.4 *On Two Different Published Algebraic Representations of Napier's Logarithm*, Dr. Andy Martin, Kentucky State University

6. Contributed Session on Calculus and Complex Analysis, Session Chair Barbara Ward, Massey Business Center Room 209B

- 2:00 6.1 *Calculus for Lunch: It's All on the Table*, Marshall Ransom, Georgia Southern University
- 2:20 6.2 *Julia Sets as Limits of Surface Projections*, Julia Barnes, Western Carolina University, Beth Schaubroeck, United States Air Force Academy
- 2:40 6.3 *Maximizing the Spectacle of Water Fountains*, Andrew Simoson, King College

- 3:00 6.4 *Some L^p Inequalities for Polynomials*, Narendra Govil, Auburn University
 3:20 6.5 *A Motivated Cauchy (Extended) Mean-Value Theorem*, Robert Clay, Dalton State College
 3:40 6.6 *A Derivative-free Iterative Method for Nonlinear Equations*, Yilian Zhang, University of South Carolina Aiken

7. Contributed Session on Algebra, Combinatorics, Modeling, and Number Theory, Session Chair Joyce Crowell, Inman Health Sciences Center Room 110

- 2:00 7.1 *Mathematical Modeling of a Low-temperature-differential Stirling Engine*, Jack Pace, Southern Polytechnic State University
 2:20 7.2 *Even, Odd, and 'Other' Functions*, Shiva Saksena, University of North Carolina Wilmington
 2:40 7.3 *On the Alternating Sums $\sum_{k=0}^n (-1)^k \binom{n}{k} \binom{k}{q}$* , Curtis Herink, Mercer University
 3:00 7.4 *Equiangular Lines and Parseval Frames*, David Duncan, Coastal Carolina University
 3:20 7.5 *Physical Numbers and the Return of the Infinitesimal*, Brian Crissey, North Greenville University
 3:40 7.6 *Analytic Analysis and Computer Simulation for the Distribution of Genes in a Large Population*, Zhenbu Zhang, Jackson State University

8. Undergraduate Papers Session A, Organizers Karen O'Hara and Luis Cueva-Parra, Inman Health Sciences Center Room 111

- 2:00 8.1 *Latin Squares and Quasigroups in Cryptography*, Michael Russell, Western Carolina University
 2:20 8.2 *BRT Polynomials of a Link Family*, Melissa Cook, Berry College
 2:40 8.3 *Rational Residuacity of Primes*, Stephen Savioli, Armstrong Atlantic State University
 3:00 8.4 *A Trait Network Model for Resource Allocation Strategies*, Robert Gove, Rebecca Fogel, Jan Rychtar, David Remington, University of North Carolina, Greensboro
 3:20 8.5 *Fibonacci*, Heather Morgan, Georgia College and State University

9. Undergraduate Papers Session B, Organizers Karen O'Hara and Luis Cueva-Parra, Inman Health Sciences Center Room 211

- 2:00 9.1 *An Algorithm for Generating Graceful Labels when Combining Caterpillars*, Theodore Schoen, UNC Asheville
 2:20 9.2 *Combinatorial Identities through Graphical Representations*, Kyle Schutt, Elon University
 2:40 9.3 *Traditional and Digraph Iterated Function Systems for Variations of Peano's Space-filling Curves*, Jessica Stewart, Elon University
 3:00 9.4 *Statistical Analysis in the NFL*, Kyle Prince, Maryville College

10. Undergraduate Papers Session C, Organizers Karen O'Hara and Luis Cueva-Parra, Inman Health Sciences Center Room 210

- 2:00 10.1 *The CDSSOLN Software Package: Efficient Software For Solving Large Sparse Linear Systems*, Moses Davis, Alabama State University
 2:20 10.2 *On the Numerical Solution of Stiff Ordinary Differential Equations Using Exponential*

- 2:40 10.3 *Basis*, Zachary Hodge, Austin Peay State University
- 2:40 10.3 *A Self-Starting Trigonometrically Fitted Method for Second Order Oscillatory Differential Equations*, Scott Swindell, Austin Peay State University
- 3:00 10.4 *Ugly Curves and the Loewner Equation*, Amy Valentine, Catherine Simpson, Sarah Claiborne, Belmont University
- 3:20 10.5 *Calculus: The Kissing Curves Connection*, Natalie Rich, University of North Carolina - Asheville

11. Vendor Presentation, Massey Business Center Room 200A

- 3:00 11.1 *All Math Software is Not Created Equal: What's the Difference?*, Jordan Enzor, Hawkes Learning Systems

4:10—5:20 General Session II, Massey Performing Arts Center Auditorium, Bruce Atkinson, Chair Elect, presiding. Awards.

Invited address, Chris Rodger, Section Lecturer, Auburn University, *How to master scheduling a series of dinner parties*

6:00—8:00 Conference Dinner and Concert, Neely Dining Room in the Massey Business Center, Concert of "songwriters in the round," Nashville style

Saturday, 14 March

7:30—10:30 Registration: Lobby Massey Business Center

7:50—8:35 MAA Business Meeting: Massey Business Center Room 100

8:00—1:00 Exhibits and refreshments: Lobby Massey Business Center

8:45—9:50 General Session III Massey Performing Arts Center Auditorium, Emily Hynds presiding, Announcements.

Invited address, Ron Gould, 2008 Section Teaching Award Recipient, Emory University, *Never Give a Non-Mathematician an Even Break*

10:00 – 11:30 Department Chairs' Meeting, Martha Abell, presiding, Inman Health Sciences Center Room 210

12. Vendor Presentation, Massey Business Center Room 103

- 10:00 12.1 *MyMathLab*, Laura Roberts, Pearson Education

10:45 – 12:00 Undergraduate Poster Session, Organizers Sarah Mason and Catherine Matos, Neely Dining Room in the Massey Business Center

- UPS. 1 *Polynomials with All Real Zeros and Coefficients 1 or -1*, Craig DeFelice, Western Carolina University
- UPS. 2 *Traditional and Digraph Iterated Function Systems for Variations of Peano's Space-filling Curves*, Jessica Stewart, Elon University
- UPS. 3 *The 3-Color Problem*, Ashley Sullivan, Spelman College
- UPS. 4 *Pythagorean Triples and Compatible Pairs*, Tim Doody, Coastal Carolina University
- UPS. 5 *A Variation of Kayles'*, Natalie Walters, King College
- UPS. 6 *Bounds for Fibonacci period growth*, Alan Koch, Chuya Guo, Agnes Scott College
- UPS. 7 *On the Diameter of the Unidirectional Hyper-Stars*, Sarah Anderson, Presbyterian College
- UPS. 8 *Domination and Independence on the m by n Toroidal Chessboard by Rooks and Bishops*, William Faust, Kennesaw State University
- UPS. 9 *Realizations of Graphs for Domination Ratios $k = \frac{r(G)}{r(G)}$ for all Rational $k \in [1,2]$* , Philip White, Kennesaw State University
- UPS.10 *Graph Theory: The Alabama State University Postman Problem*, Michael Wright, Alabama State University
- UPS.11 *Inverse Eigenvalue Problems Arising in Population Models*, Tao-hsiang Chang, The Citadel
- UPS.12 *Solving System of Polynomial Equations*, Anisah NuMan, Spelman College
- UPS.13 *A Registration Based Algorithm for the Classification and Identification of the Hispaniolan Amazon*, Christina Camps, Thomas Redd, North Carolina A&T State University, Jonathan Bonin, Dominique Homberger, Louisiana State University
- UPS.14 *Cellular Automata, Genetic Algorithms, and Lights Out*, Andrew Penland, Western Carolina University
- UPS.15 *Modeling of the Fibonnaci Sequence in Plant Phyllotaxis*, Olivia Hightower, Presbyterian College
- UPS.16 *Wave Transformation*, Danielle Tarpley, Coastal Carolina University
- UPS.17 *Determining Indeterminates Using Differentiation*, Benjamin Briscoe, Cumberland University
- UPS.18 *Calculus: The Kissing Curves Connection*, Natalie Rich, University of North Carolina - Asheville
- UPS.19 *Variations on Conway's Game of Life*, Stephen Nanney, Western Carolina University
- UPS.20 *Using Modulo Properties to Show Divisibility in Different Base Systems*, Michael Branson, Georgia College and State University
- UPS.21 *Properties of Special Structured 2x2 Matrices over Z_p* , Joshua Zimmer, The Citadel
- UPS.22 *On the Applications and Properties of the Space of Linear Functions $L(R)$* , Michael Blackmon, University of South Carolina: Upstate

10:00—12:00 Workshop, Regression Analysis in AP Statistics, Daniel J. Teague, NC School of Science and Mathematics, Second VP MAA, Massey Business Center Room 104

10:00—12:00 Concurrent Special and Contributed Sessions

13. Special Session on Presentations by Beginning Faculty Session II, Organizer David Stone, Massey Business Center Room 100

- 10:00 13.1 *Compactly Supported Wavelets With Dilation Factor 3 and Application in Image Compression*, Jie Zhou, Coastal Carolina University
- 10:20 13.2 *Calculus II for Students with an AP Background*, Joseph Spivey, Wofford College
- 10:40 13.3 *Perspectives on Academia as a Second Career in Mathematics*, Mike Johnson, Meredith College

- 11:00 13.4 *Comparing Numerical Methods for solving Lotka-Volterra equations*, Ramanjit Sahi, Austin Peay State University
- 11:20 13.5 *Analysis of Order of Error for Numerical Solution of Multiple Nonlinear Volterra Integral Equations*, Yuriy Bulka, Austin Peay State University

14. Special Session on Mathematical Biology Session II, Organizer Jan Rychtar, Massey Business Center Room 200B

- 10:00 14.1 *Opportunities at the new National Institute for Mathematical and Biological Synthesis*, Suzanne Lenhart, University of Tennessee
- 10:20 14.2 *Mathematical Models of Kleptoparasiting Behavior in Sea Gulls*, Jan Rychtar, University of North Carolina Greensboro
- 10:40 14.3 *Stability Analysis of a Model of Atherogenesis*, Laura Ritter, Southern Polytechnic State University, Akif Ibragimov, Texas Tech, Jay Walton, Texas A & M
- 11:00 14.4 *A Linear System of Strip-Based Projection Model in Discrete Tomography*, Jiehua Zhu, Xiezhang Li, Georgia Southern University, Yangbo Ye, University of Iowa, Ge Wang, Virginia Tech
- 11:20 14.5 *Optimal Control of 'Harvesting after Growth' in an Integrodifference Population Model*, Peng Zhong, Suzanne Lenhart, University of Tennessee

15. Special Session on Probability and Statistics, Organizer Thomas M. Lewis, Massey Business Center Room 109

- 10:00 15.1 *Bayes' Theorem Alternatives*, John Paulling, Tusculum College
- 10:20 15.2 *What is a P-value?*, Patricia Humphrey, Georgia Southern University
- 10:40 15.3 *Edgeworth Expansion for Linear Regression Processes with Long-memory Errors*, Mosisa Aga, Auburn University Montgomery
- 11:00 15.4 *Non-intuitive Strategies for Video Poker*, Joe DeMaio, Sean Ellermeyer, Kennesaw State University
- 11:20 15.5 *Poisson-Voronoi Tessellations, Limacons, and Buffon Disks*, Thomas Lewis, Furman University
- 11:40 15.6 *Construction of Two-dimensional Block Design for Correlated Errors*, Mohammed Talukder, Seyed Roosta, Albany State University

16. Special Session on The Use of Technology to Enhance Active Learning, Organizers Shemsi Alhaddad, Andrew Yingst, Massey Business Center Room 209B

- 10:00 16.1 *Changing Student Views of Proof Through the Use of Technology*, Angel Abney, Janet Shiver, Georgia College & State University
- 10:20 16.2 *Team Teaching Geometry using Interactive Video Technology*, Tania McDuffie, Converse College, Myrtle Lewin, Agnes Scott College
- 10:40 16.3 *Using Clickers to Teach Statistics*, Derek Bruff, Vanderbilt University
- 11:00 16.4 *Evaluating Derivatives with MATLAB*, Richard Neidinger, Davidson College
- 11:20 16.5 *Differential Equations and the TI-89*, Daniel Biles, Belmont University
- 11:40 16.6 *An Anatomy of a Fluid Flow With a Very Low Reynolds Number In a Semi-infinite Circular Tube*, Gregory Goeckel, Presbyterian College

17. Contributed Session on Topology, Session Chair Bill Hooper, Massey Business Center Room 204

- 10:00 17.1 *Symmetric product of AR and Hilbert cube manifolds*, Kailash Ghimire, Georgia Southwestern State University
- 10:20 17.2 *Closed Relations and Stability in Dynamical Polysystems*, George Cazacu, Georgia College and State University
- 10:40 17.3 *Topological Invariants of Putative Exotic Complex Projective Spaces*, Ryan Brown, Georgia College, Jan Segert, University of Missouri
- 11:00 17.4 *Isomorphic classes of Linking Pairings on 2-groups*, B. Ntatin, Austin Peay State University
- 11:20 17.5 *2-dimensional Cohen-Macaulay Complexes with 2-Connected Links*, Risto Atanasov, Western Carolina University

18. Contributed Session on General Math Education, Session Chair Joan Lind, Massey Business Center Room 209A

- 10:00 18.1 CANCELLED
- 10:20 18.2 *Using a Numerical Analysis course to revisit Calculus*, Sean Eastman, Armstrong Atlantic State University
- 10:40 18.3 *Activities for a Geometry Classroom*, Carroll Wells, Lipscomb University
- 11:00 18.4 *The Impact of Inquiry-Based Instruction on Student Achievement*, Bernadette Mullins, Birmingham-Southern College, John Mayer, University of Alabama at Birmingham, Rachel Cochran, Jason Fulmore, Center for Educational Accountability
- 11:20 18.5 *Math, Murder, and Mystery: Mathematics and Detective Fiction*, Charlotte Knotts-Zides, Wofford College

19. Graduate Papers, Session Chair Daniel Biles, Inman Health Sciences Center Room 110

- 10:00 19.1 *Some Polynomial Identities and Commutative Rings*, Michael Lomuscio III, Western Carolina University
- 10:20 19.2 *The Equation $x^n=e$ and Cyclic Groups*, Katie Melhuish, Western Carolina University

20. Undergraduate Papers Session D, Organizers Karen O'Hara and Luis Cueva-Parra, Inman Health Sciences Center Room 111

- 10:00 20.1 *Centrality Measures in Social Network Analysis*, Corley Henderson, Samford University
- 10:20 20.2 *Analyzing Breast Cancer Data Using Genetic Algorithms and Logistic Regression*, James Lucy, Alabama State University
- 10:40 20.3 *The Importance of Fuzzy Logic and Its Applications*, Melvin Bridges, Alabama State University
- 11:00 20.4 *Modeling Polar Bear Population in a warming Arctic Climate*, Alexander Ford, Charles Helms, UNC Asheville
- 11:20 20.5 *Modeling and Optimizing HIV Treatment*, Nicholas Clark, Xavier University

21. Undergraduate Papers Session E, Organizers Karen O'Hara and Luis Cueva-Parra, Inman Health Sciences Center Room 211

- 10:00 21.1 *Two-Dimensional Continuous Space in a Bioeconomic Harvesting Model*, William Youree, Kennesaw State University
10:20 21.2 *A Hybrid Method for Ordinary Differential Equations*, Douglas Tramill, Austin Peay State University
10:40 21.3 *Pythagoras*, Russell Glenn, Wofford College
11:00 21.4 *Can You Hear Me Now?*, Jaleesa Longmire, Alabama State University
11:20 21.5 *The Theta Complex of Certain Families of Hypergraphs*, Tony Zamberlan, Augusta State University

12:10—1:00 Math Jeopardy Final Round: Massey Performing Arts Center Auditorium

Math Jeopardy Participating Institutions, Sponsors, and Competitors

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Georgia Southern Team 2, Sponsor: Jiehua Zhu
Nathan Dunn, , Anh Tran, Thomas Watts

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Slate of Nominees for Offices
Southeastern Section of the Mathematical Association of America

Election of officers will be at the annual business meeting held Saturday morning, March 14, 2009 at 7:50 in Massey Business Center Room 100. A person nominated and seconded from the floor by a Section member will be added to the Nominating Committee's slate provided the person nominated has agreed to serve if elected. Election is by majority vote of the members of the Section present and voting at the business meeting. Terms of newly elected officers begin at the adjournment of this Spring Section Meeting.

The Nominating Committee: Ray Collings (Chair)(GA), Andrew Hetzel (TN), Bernie Mullins (AL), Charlotte Knotts-Zides (SC), Wanda Patterson (NC)

<u>Position</u>	<u>Candidate</u>
Vice-Chair for Two-Year Colleges	Queen Harris Georgia Perimeter College
Section Lecturer	Ron Gould Emory University
Newsletter Editor	Sarah Raynor Wake Forest University
State Director Alabama	Emily Hynds Samford University
State Director Georgia	Lila Roberts Georgia College & State University.
State Director South Carolina	Mei Chen The Citadel
State Director Tennessee	Brian O'Connor Tennessee Tech University
State Director North Carolina	Jennifer Hontz Meredith College

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