

**Mathematical Association of America
Southeastern Section
89th Annual Meeting**



**26 – 27 March 2010
Elon University
Elon, North Carolina**

MAA-SE Officers

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Annual Conference
Mathematical Association of America, Southeastern Section
<http://math.elon.edu/maaconference/>
Eighty-ninth Annual Meeting

Elon University
Elon, North Carolina
Friday—Saturday, 26—27 March 2010

Sessions will be held in Koury Business Center with keynote speakers in McKinnon.

Thursday, 25 March

2:00—5:15 **Project NExT-SE Activities: Koury Business Center Room 112**
See Conference Web site for a detailed schedule

6:00—9:30 **Executive Committee Dinner and Meeting: The Oaks Room 212**

7:00—7:30 **Treasure Hunt Activities: Lobby Koury Business Center**
Check-in

7:30—9:00 **Treasure Hunt Activities: Koury Business Center – Various rooms**

Friday, 26 March

- 7:30—4:30** **Registration: Koury Business Center**
- 8:00—12:00** **Math Jeopardy Preliminary Rounds, Moseley Center: McKinnon**
Organizers: Ron Taylor, Jeffrey Powell, Brian Wagner
Moderators: Mike Berry, Markus Iturriaga Woelfel
- 8:00—4:00** **Project NExT-SE Activities: Koury Business Center Room 112**
 (See Conference Web site for detailed schedule)
- 8:00—4:00** **Refreshments: Various locations in Koury Business Center**
- 8:30—11:30** **Short Courses**
- ***Successful Grant Writing*, Tina Straley, Executive Director MAA**
 Koury Business Center Room 112
 - ***Introduction to LaTeX*, Nell Rayburn, Austin Peay State University**
 Koury Business Center Room 354
 - ***Teaching Differential Equations Inquiry-Style*, Karen Keene, North Carolina State University**
 Koury Business Center Room 201
 - ***Hidden Linearity, Convexity, and Separability in Nonlinear Programming*, Elmor L. Peterson,**
Systems Science Consulting, The Research Triangle NC
 Koury Business Center Room 244
- 10:30—5:00** **Exhibits: Lobby Koury Business Center**
- 11:15—12:30** **Graduate School and Career Fair: Moseley 115**
Networking, professional development, career planning and free pizza for students. All
faculty are invited for pizza and networking; we appreciate a \$5.00 donation from
faculty for pizza.
- 11:30—12:30** **Liaisons' Luncheon**
Koury Business Center Room 346
- 12:40—1:50** **General Session I, McKinnon, Bruce Atkinson, Section Chair, presiding. Welcome and**
opening remarks by Gerry Francis

Invited address

Betty Mayfield

Former Vice-President of the MAA

Hood College

Women and Mathematics in the Time of Euler

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

1. Special Session on Presentations by Beginning Faculty Session I, Organizer David Stone Koury

Business Center Room 346

- 2:00 1.1 *Isomorphism Classes of Wiring Diagrams*, Joe Rusinko, Winthrop University, Patrick Dukes, Winthrop University
- 2:20 1.2 *A Geometric Formulation for Balancing Chemical Equations*, Jer-Chin Chuang, Georgia College and State University
- 2:40 1.3 *Proving the Existence of Positive Solutions to Various Singular Boundary Value Problems*, Curtis Kunkel, University of Tennessee at Martin
- 3:00 1.4 *Self-Avoiding Walks and Polygons on Hyperbolic Coxeter Groups*, Jason Bode, Lander University
- 3:20 1.5 *The "Magicness" of Powers of Some Magic Squares*, Rebecca Hillman, Charles Cook, Michael Bacon, University of South Carolina Sumter
- 3:40 1.6 *The Singular Value Decomposition: A Project for an Undergraduate Linear Algebra Class*, Edward Fuselier, High Point University

2. Special Session on Presentations by Beginning Faculty Session II,

Organizer Charlotte Knotts-Zides

Koury Business Center Room 242

- 2:00 2.1 *Patterns and Integer Valued Polynomials*, Jenny Fuselier, High Point University
- 2:20 2.2 *Examining Life's Big Questions in Contemporary Math (!)*, Jeffrey Powell, Samford University
- 2:40 2.3 *Gian-Carlo Rota in some History of Umbral Calculus*, Katherine Humphreys, FAU
- 3:00 2.4 *How to implement Mathematical Induction in the Classroom*, Leandro Junes, University of South Carolina Sumter
- 3:20 2.5 *Model-based Pre-processing in Protein Mass Spectrometry*, John Wagaman, Western Carolina University
- 3:40 2.6 *Methodology of Teaching Between a Military and Collegiate Environment*, Mark Pierce, Macon State College

3. Special Session on Applied and Combinational Mathematics Session I,

Organizer Carlos Nicolas,

Koury Business Center Room 353

- 2:00 3.1 *DGM-FD: A Finite Difference Scheme Based on the Discontinuous Gakerkin Method*, Anne Fernando, Norfolk State University
- 2:20 3.2 *Trees in Phylogeny and Biochemistry*, Hua Wang, Georgia Southern University, Laszlo Szekely, University of South Carolina, Taoyang Wu, University of London
- 2:40 3.3 *The Gap Number of the T Tetromino*, Robert Hochberg, East Carolina University
- 3:00 3.4 *Optimal Anchoring and Motion Control of a Wave Energy Converter*, Jeff Lawson, Murugan Vinayagam, Western Carolina University
- 3:20 3.5 *A New MCDM Method Based on Fuzzy Dempster Theory*, Ying Xiao, China Univ of Political Science and Law
- 3:40 3.6 *A Mathematical Model of Stealing without Perfect Information*, Jan Rychtar, University of North Carolina Greensboro

4. Special Session on Geometry, Organizer Meighan Dillon**Koury Business Center Room 355**

- 2:00 4.1 *Paper Clip and Pipe Cleaner Geometry*, Richard Summers, Reinhardt College
- 2:20 4.2 *Math and Fabric Art*, Samuel Kaplan, UNC Asheville, Ida Bostian, UNC Asheville
- 2:40 4.3 *Using Spherical Trigonometry to Develop Proof Making Skills in a Geometry for Teachers Course*, Cynthia Stenger, UNA
- 3:00 4.4 *Teaching Geometry From a Historical Perspective*, Meg Dillon, Southern Polytechnic State University
- 3:20 4.5 *Building a Labyrinth in the Back Yard - Geometrical Challenges*, Brian O'Connor, Tennessee Tech University
- 3:40 4.6 *Four Kissing Circles*, David Stone, John Hawkins, Georgia Southern University

5. Contributed Talks on General Math Education Session I, Session Chair Queen Harris**Koury Business Center Room 112**

- 2:00 5.1 *Integral Calculus in a One-Semester Calculus Course*, Michel Helfgott, East Tennessee State University
- 2:20 5.2 *Journal Writing in the Mathematics Classroom*, Kelli Slaten, Yulia Coburn, University of North Carolina Wilmington
- 2:40 5.3 *Student Profiles in the Mathematics Classroom: Learned Helplessness and Asperger's Syndrome*, Lisa Carnell, High Point University
- 3:00 5.4 *North Carolina NAEP: Improving Mathematics Content and Methods Courses*, Tracy Goodson-Espy, Appalachian State University
- 3:20 5.5 *Steps To Improving Student Retention and Progression*, Martha Abell, Sharon Barrs, Patricia Humphrey, Bridgett Lee, Jim Braselton, Lori Braselton, Georgia Southern University
- 3:40 5.6 *Discovering Identities Using Simple Urn Models*, Dennis Walsh, Middle Tennessee State University

6. Contributed Session on History and Trigonometry, Session Chair Paul Baker**Koury Business Center Room 208**

- 2:00 6.1 *Writing in History*, Sharon Sullivan, Catawba College
- 2:20 6.2 *Basic Operations on Khmer Numbers*, Paul Baker, Catawba College
- 2:40 6.3 *Observations on a Lecture*, Robert Moses, David Peifer, UNC Asheville
- 3:00 6.4 *Integrating the Three Stooges into Trigonometry*, Robert Davidson, Robert Gardner, East Tennessee State University
- 3:20 6.5 *History of Mathematics at VMI*, Aprillya Lanz, Virginia Military Institute

7. Contributed Session on Calculus, Differential Equations, and Complex Analysis,**Session Chair Shemsi Alhaddad****Koury Business Center Room 237**

- 2:00 7.1 *ArcLength and Newton's Earth Radii*, Andrew Simoson, King College
- 2:20 7.2 *The Median Value of a Continuous Function*, Irl Bivens, Davidson College
- 2:40 7.3 *A Distortion Theorem for Univalent Functions Defined using the Salagean Differential Operator*, Ben Ntatin, Austin Peay University
- 3:00 7.4 *A Note on the Schwarz Reflection Principle for Polyharmonic Functions*, Dawit Aberra, Fort Valley State University
- Continued on next page*

- 3:20 7.5 *Solving Initial Value Problems using Boundary Value Technique*, Ramanjit Sahi, Austin Peay State University
- 3:40 7.6 *Estimate of Order of Error of Numerical Solution of Infinite-Dimensional Volterra Integral Equation*, Yuriy Bulka, APSU

8. Special Session on Research Experiences for Undergraduates, Organizers Patrick Bahls, Mark McClure, UNC Asheville, Neil Calkin, Kevin James, Clemson U

Koury Business Center Room 310

- 2:00 8.1 *Sowing the Seeds: a Panel Discussion of REU Directors*, Patrick Bahls, University of North Carolina, Asheville, Mary Crowe, UNC Greensboro, Kevin James, Clemson U, Betty Mayfield, Hood College
- 2:30 8.2 *Splicing Graceful Labelings of Caterpillars*, Michael James, Georgia College & State University
- 2:50 8.3 *Using Markov Theory to Find the Expected Diameter of Random Graphs*, Cynthia Cook, Catawba College, Patrick Bahls, UNCA, Mark McClure, UNCA
- 3:10 8.4 *Existing Cycles of Length of Power of 2^k in Planar Graphs with a Minimum Degree of At Least Four*, Guantao Chen, Robert Xu, Nana Li, Georgia State University
- 3:30 8.5 *Harvesting the Fruit: a Panel Discussion of Undergraduate Researchers*, Corey Jones, Erin Luther, UNC Asheville, Cindy Cook, Catawba College

9. Special Session on Ranking and Clustering, Organizers Tim Chartier, Davidson College, Chuck Wessell, North Carolina State U

Koury Business Center Room 244

- 2:00 9.1 *Clustering with Cluto*, Mark Trawick, Jennings Boley, Davidson College
- 2:20 9.2 *Finding Meaning in Friendships*, Jennings Boley, Mark Trawick, Davidson College
- 2:40 9.3 *Ranking Systems: Purpose, Derivation, Implementation, and Evaluation*, Benjamin Goldman, Wake Forest University
- 3:00 9.4 *How Big is a Big Game? Finding the Best Weights to Predict the March*, Colin Thomson, Davidson College
- 3:20 9.5 *Clustering Presidential Election Data over Time*, Chuck Wessell, North Carolina State University
- 3:40 9.6 *Data Mining: How Companies Use Linear Algebra*, Ralph Abbey, NCSU

10. Graduate Papers Session I, Session Chair Crista Arangala

Koury Business Center Room 348

- 2:00 10.1 *Cards, Codes, and Kangaroos*, Lindsey Bosko, North Carolina State University
- 2:20 10.2 *Galois Groups of Quartic Polynomials*, Kate Melhuish, Western Carolina University
- 2:40 10.3 *Mathematical Principles of Military Combat and Counter-Insurgency*, Luis Hercilla-Heredia, UNC Greensboro
- 3:00 10.4 *Discrete Time Optimal Control of Species Augmentation: Augment then Grow*, Erin N. Bodine, Louis J. Gross, Suzanne Lenhart, University of Tennessee, Knoxville
- 3:20 10.5 *The Degree Distance vs. the Wiener Index*, Daniel Gray, Hua Wang, Georgia Southern University

11. Undergraduate Papers Session A, Organizer Luis Cueva-Parra**Koury Business Center Room 211**

- 2:00 11.1 *Understanding How the Hailstone Falls Using a New Coding Process*, Richard Freedman, Wake Forest University
- 2:20 11.2 *Substructures of Endomorphism Near-rings*, Corey Jones, University of North Carolina, Asheville
- 2:40 11.3 *Using Miller Rabin to Test for Prime Numbers*, Toya Skeete, Spelman College
Continued on next page
- 3:00 11.4 *A Graph Theoretical Approach to Scramble Squares*, Mali Zhang, Davidson College
- 3:20 11.5 *Which Chessboards have a Closed Knight's Tour within the Rectangular Prism?*, Bindia Mathew, Joe DeMaio, Kennesaw State University
- 3:40 11.6 *Ramanujan Congruences for Partition Related Eta-quotients*, Hudson Harper, University of South Carolina

12. Undergraduate Papers Session B, Organizer Luis Cueva-Parra**Koury Business Center Room 200**

- 2:00 12.1 *Agent-Based Simulations of Acquired Immunity for Malaria Endemic Populations*, Mary Minor, Elon University
- 2:20 12.2 *Fermat's Integration*, Kyle Rollins, Coastal Carolina University
- 2:40 12.3 *Higher-Order Automatic Differentiation Methods in MATLAB*, Ben Altman, Davidson College
- 3:00 12.4 *Generalized Hopf Bifurcations in a Laser Diode System with Self-sustained Pulsations*, John Bobo, Berry College
- 3:20 12.5 *Use of Technology in Problem Solving; Student Presentations of Group Projects*, Stephen Doty, Kader Conde, Lekha Pate, Aamir Bey, Courtney Lemon, Georgia Perimeter College
- 3:40 12.6 *Analysis of Pawpaw Leaf Characteristics: An investigation of possible hybridization with *Asimina triloba* and *Asimina parviflora* in South Carolina*, Olivia Hightower, Presbyterian College, olihollie@gmail.com

13. Undergraduate Papers Session C, Organizer Luis Cueva-Parra**Koury Business Center Room 306**

- 2:00 13.1 *An Agent-Based Model of Insecticide Treated Nets and Their Impact on Populations at Risk for Malaria*, Amanda Brown, Elon University
- 2:20 13.2 *Colonel Blotto's Combinatorial Decisions*, Toby Sanders, Hua Wang, Georgia Southern University
- 2:40 13.3 *The Wiener Index of Isomers*, Zanetta Geohagen, Wang Hua, Georgia Southern University
- 3:00 13.4 *On the Extremal Problem of Polya*, Tuan Le, Fairmont High School
- 3:20 13.5 *Epidemiology and the Kermack-McKendrick Method*, Scott Robert Campbell, Catawba College
- 3:40 13.6 *Can You Hear the Species of a Frog? An Analysis of Tree Frog Calls*, Melissa Gaisser, Elon University

14. Vendor Presentation**Koury Business Center Room 302**

- 3:00 14.1 *All Math Software is Not Created Equal: What's the Difference?*, Erica Dean, Hawkes Learning Systems

4:10—5:20 **General Session II, McKinnon, John Harris,
Secretary-Treasurer, presiding. Awards.**

Invited address

**Ron Gould
Section Lecturer
Emory University**

Math and Marriage - Don't Call a Lawyer Yet

5:20 – 6:30

Reception

Fire Side Lounge and Surrounding Mosley Areas

6:30 – 8:30

Conference Dinner

McKinnon

Saturday, March 27

- 7:30—10:30** **Registration: Koury Business Center**
- 7:50—8:35** **MAA Business Meeting: Koury Business Center
Room 112**
- 8:00—1:00** **Exhibits and refreshments: Koury Business Center**
- 8:45—9:50** **General Session III, McKinnon, Martha Abell, Past-Chair, presiding, Announcements.**

Invited addresses

Patrick Bahls

2009 Distinguished Teaching by Beginning Faculty Recipient
University of North Carolina, Asheville
The Role of Trust in Teaching and Learning

Hugh Howards

2009 Section Teaching Award Recipient
Wake Forest University
Knots vs Graphs: An Epic Tale of Survival!

10:00 – 11:30 **Department Chairs' Meeting, Bruce Atkinson, presiding
Koury Business Center Room 302**

10:45 – 12:00 **Undergraduate Poster Session, Organizers Sarah Mason and Catherine Matos Koury
Business Center, 1st Floor**

- UPS. 1 *Applications and Algorithms of Nonlinear Optimization*, Jeremy Condra, Francis Marion University
- UPS. 2 *Classifying Weighted Voting Systems*, Annalaissa Johnson, Wake Forest University
- UPS. 3 *Big Bubble Theory*, Bethany Wentzky, King College
Continued on next page
- UPS. 4 *The Derivation of the Black-Scholes Equation for a European Call Option*, Daniel Huffman, Southern Polytechnic State University
- UPS. 5 *Behavior of Generalized Logistic Equations on Time Scales*, Julia St. Goar, Agnes Scott College
- UPS. 6 *Disjoint Monochromatic Circuits in Complete Graphs*, Gregory Ferrin, Western Carolina University
- UPS. 7 *Graph Lineage and Graph Generation*, Benjamin Casses, Western Carolina University
- UPS. 8 *Graceful Labelings for Several Infinite Classes of Trees*, Tso-Chun Meng, Alexander Formato, The Citadel
- UPS. 9 *Exploring Patterns in Boolean Satisfiability*, Shashank Suresh, Annie Temmink, Davidson College
Continued on next page

- UPS.10 *Effects of Oxidative Stress on IGF Signaling in Chondrocytes*, Pamela Marcott, Wake Forest University
- UPS.11 *An Investigation on an Inequality Involving Roots*, Tuan Le, Fairmont High School
- UPS.12 *Exploring Placement Criteria in Freshman and Sophomore Level Undergraduate Mathematics Courses*, Justin Sims, Emily Anthony, University of Tennessee at Martin
- UPS.13 *Calibrating the Complexity of Ternary Connectives*, William Bradley, Alex Dunn, Matthew Owen, Appalachian State University
- UPS.14 *Salmonella*, William Orndorff, Virginia Military Institute
- UPS.15 *Reverse Mathematics of the Heine Borel Theorem*, Jessica Miller, Appalachian State University
- UPS.16 *Curves, Knots, and Total Curvature*, Matthew Evans, Wake Forest University

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

15. Special Session on Presentations by Beginning Faculty Session III, Organizer David Stone Koury Business Center Room 346

- 10:00 15.1 *Approximating Nearly Singular Integrals in Introductory Calculus Courses*, Chris Duncan, Lander University
- 10:20 15.2 *A 2008 Student-run Exit Poll and Clustering*, Jason Parsley, Annalissa Johnson, Wake Forest University
- 10:40 15.3 *Ascending Subgraph Decompositions of Digraphs*, Brian Wagner, The University of Tennessee at Martin
- 11:00 15.4 *Heegaard Diagrams*, Karoline Null, University of Tennessee Martin
- 11:20 15.5 *An Example of a Crossed Product by an Endomorphism*, Amy Chambers, Tennessee Tech University
- 11:40 15.6 *Cycle Space of the Closed Orbit of a Semi-simple Lie Group Acting on a Flag Manifold*, Ben Ntatin, Austin Peay University

16. Special Session on Applied and Computational Mathematics Session II, Organizer Jan Rychtar Koury Business Center Room 145

- 10:00 16.1 *Volatility of High Frequency Financial Data*, Zhijian Wu, The University of Alabama
- 10:20 16.2 *On the Location of Zeros of Polynomials*, Narendra Govil, Auburn University
- 10:40 16.3 *Developing an Introductory Scientific Computing Course for Mathematics Majors*, Erin McNelis, Western Carolina University
- 11:00 16.4 *Numerical Experiments on a Variation of Root Finding Algorithm through Chebyshev Expansion*, Yilian Zhang, University of South Carolina Aiken
- 11:20 16.5 *Graph Theory and Neural Networks*, Jeff Knisley, Debra Knisley, East Tennessee State University
- 11:40 16.6 *Role of Bases and Wavelets in Stochastic Processes*, Sujin Kim, Savannah State University

17. Special Session on Statistics, Organizer Pat Humphrey Koury Business Center Room 242

- 10:00 17.1 *Teaching the Computation of Variance*, Xavier Retnam, Anderson University, Charles Rains, Anderson University
- 10:20 17.2 *Reorganizing for Better Inference*, Cathy Whitlock, UNC-Asheville
Continued on next page

- 10:40 17.3 *Using Low Cost Classroom Activities to Teach Sampling Techniques*, Richard Summers, Reinhardt College
- 11:00 17.4 *Statistical Literacy Project: Identifying and Evaluating Statistics Found in Popular Media*, Karen Briggs, North Georgia College & State University
- 11:20 17.5 *Bootstrapping Autoregressive Time Series*, Mosisa Aga, Auburn University Montgomery
- 11:40 17.6 *Clicking Away in Introductory Statistics*, Aprillya Lanz, Virginia Military Institute

**18. Contributing Session on General Math Education Session II, Session Chair Andrew Yingst
Koury Business Center Room 353**

- 10:00 18.1 *A Collaborative Learning Approach to Precalculus and College Algebra*, Sarah Holliday, Southern Polytechnic State University, Jennifer Vandenbussche, Southern Polytechnic State University
- 10:20 18.2 *Mathematical Culture Shock*, Trent Kull, Winthrop University
- 10:40 18.3 *Making Connections between Math Courses: Motivating Students Learn More Mathematics*, Pinghua Wang, Georgia Highlands College
- 11:00 18.4 *BLAM! Creating a Summer Math Camp Unlike Any Other*, Matthew Cathey, Spivey Joseph, Wofford College
- 11:20 18.5 *Teaching Calculus Uniformly*, James Solazzo, Coastal Carolina University
- 11:40 18.6 *An Examination of Mathematics Proficiency of Minority Students in Precalculus*, Samuel Cartwright, Dawit Aberra, Fort Valley State University

**19. Contributed Session on Math Applications and Modeling, Session Chair Lisa Beuerle
Koury Business Center Room 355**

- 10:00 19.1 *Suspension Profiles*, Charles Groetsch, The Citadel
- 10:20 19.2 *Non-perturbation Structure of Unsteady Plane: Shock Waves in a Viscous Heat-conducting Gas*, Shan Manickam, Western Carolina University
- 10:40 19.3 *Analysis of a Regenerative Stirling Engine*, Jack Pace, Southern Polytechnic State University
- 11:00 19.4 *Queueing Model for "Congestive" Systems*, Mike Johnson, Meredith College
- 11:20 19.5 *The G-Translativity of Abel-Type Transformations*, Mulatu Lemma, Savannah State University

**20. Contributed Session on Algebra, Logic, Number Theory, Session Chair Jeff Clark
Koury Business Center Room 112**

- 10:00 20.1 *A Probabilistic Approach to Finding Irreducible Polynomials*, Jeffrey Ehme, Spelman College
- 10:20 20.2 *Young Tableaux and Sequences*, Laurie Zack, High Point University
- 10:40 20.3 *Binet's Formula Mod p* , Curtis Herink, Mercer University
- 11:00 20.4 *The Structure of Mathematics as a Self-Similar Syntactic Fractal*, Damon Scott, Francis Marion University
- 11:20 20.5 *Some Interesting Properties of 7-core Partitions*, Louis Kolitsch, UT Martin
- 11:40 20.6 *Unreal Irrationals: Turing Halts Cantor*, Brian Crissey, North Greenville University

21. Contributed Session on Linear Algebra and Combinatorics, Session Chair Crista Arangala**Koury Business Center Room 208**

- 10:00 21.1 *Equiangular Tight Frames and Fourth Root Seidel Matrices*, James Solazzo, David Duncan, Thomas Hoffman, Coastal Carolina University
- 10:20 21.2 *Eigenpairs of Adjacency Matrices of Balanced Signed Graphs*, Mei-Qin Chen, Spencer Hurd, The Citadel
- 10:40 21.3 *Magic Squares of Fixed Line Sum*, William Griffiths IV, Southern Polytechnic State University
- 11:00 21.4 *Projects Ideas Involving Linear Algebra and MATLAB*, David Szurley, Francis Marion University
- 11:20 21.5 *Optimal Play In A Solitaire Game With Switches*, Thomas Lewis, Kyle Tenke, Furman University
- 11:40 21.6 *Unexpected Connections: from Factorization Theory to Ecosystem Analysis*, Michael Freeze, UNC Wilmington

22. Contributed Session on Teaching Techniques, Session Chair Douglas Brown**Koury Business Center Room 237**

- 10:00 22.1 *Release from the Horns of a Dilemma: Homework Made Easy?*, Douglas Brown, Catawba College
- 10:20 22.2 *Teaching a Hybrid (Classroom + Online) Calculus Class*, Laurie P. Dishman, Cumberland University
- 10:40 22.3 *The Use of WileyPLUS in Freshman-level Math Courses*, Shemsi Alhaddad, University of S. Carolina Lancaster
- 11:00 22.4 *The Q Perception*, Queen W. Harris, Georgia Perimeter College
- 11:20 22.5 *Teaching Capstone Seminar Course*, Risto Atanasov, Western Carolina University
- 11:40 22.6 *Risk Factors for Students Success in Calculus*, M. Hanif Talukder, Albany State University

23. Contributed Session on Graph Theory, Session Chair Todd Lee**Koury Business Center Room 310**

- 10:00 23.1 *Classifying the Vertices of a Digraph using Markov Chain Theory*, Keshav Jagannathan, Coastal Carolina University
- 10:20 23.2 *Longest Paths in Graphs*, Tzvetalin Vassilev, Nipissing University, Minko Markov, University of Sofia
- 10:40 23.3 *Cyclic and Bicyclic Decompositions of the Complete Graph into the 4-Cycle with a Pendant Edge*, Robert Gardner, East Tennessee State University, Daniel Cantrell, Gary Coker
- 11:00 23.4 *Total Efficient Domination and Circulant Graphs*, Joe DeMaio, Kennesaw State University
- 11:20 23.5 *On (2,3)-agreeable Box Societies*, Thierry Zell, Lenoir-Rhyne University, Michael Abrahams, Meg Lippincott, Vassar College

24. Graduate Papers Session II, Session Chair Skip Allis**Koury Business Center Room 348**

- 10:00 24.1 *Modeling the Effect of Dung Age on the Kleptoparasitic Behavior of Dung Beetles*, Heather Allmond, University of North Carolina Greensboro
Continued on next page

- 10:20 24.2 *A Graph Theoretic Summation of the Cubes of the First n Integers*, Joe DeMaio, Kennesaw State University, Andy Lightcap, Georgia State University
- 10:40 24.3 *Modeling the Spread of *Alliaria Petiolata* across Different Landscape Distributions*, Michael Lomuscio III, Western Carolina University
- 11:00 24.4 *Investigation of the Independence Assumption in Capture-Recapture Methods in Epidemiology*, Heather King, Patricia Humphrey, Georgia Southern University

25. Undergraduate Papers Session D, Organizer Luis Cueva-Parra,

Koury Business Center Room 211

- 10:00 25.1 *Effects of Linear and Exponential Increases of Radiative Forcing on Temperature*, Andrew Moss, Clemson University
- 10:20 25.2 *Personalized Ranking Algorithms*, Benjamin Goldman, Wake Forest University
- 10:40 25.3 *Mathematical Models of Malaria*, Sarah Oberst, Davidson College
- 11:00 25.4 *Mathematical Explanation of Ecosystem Homogenization*, Adrian Coles, University of North Carolina Wilmington
- 11:20 25.5 *Optimal Control of Walking and Efficient Methods for Multi-Domain Simulations*, Kristen Thomas, Clemson University
- 11:40 25.6 *Analytical Modeling of Magnetic Resonance Imaging(MRI) Techniques*, Benjamin D. Briscoe, Cumberland University, Christopher C. Quarles, Vanderbilt University

26. Undergraduate Papers Session E, Organizer Luis Cueva-Parra

Koury Business Center Room 200

- 10:00 26.1 *A Mathematical Introduction to Shor's Quantum Factoring Algorithm*, J. Caleb Wherry, Austin Peay State University
- 10:20 26.2 *Catch Me If You Can: Geographically Profiling Serial Burglars*, Whitney Sanders, Corey Gelbaugh, Mitchell Worley, Wofford College
- 10:40 26.3 *Equilibrium of Shortest Path Load in Ring Networks*, Jason Hedetniemi, Furman University
- 11:00 26.4 *The Fast Food Diet Problem*, Rebecca Waldrip, Furman University
- 11:20 26.5 *Distance Related Labelings of Graphs*, Holly Arrowood, Furman University
- 11:40 26.6 *Hindman's Finite Sum Theorem*, Anh Tran, Georgia Southern University

27. Undergraduate Papers Session F, Organizer Luis Cueva-Parra

Koury Business Center Room 306

- 10:00 27.1 *Generalized Fibonacci Sequence mod n and its Period Function*, Chuya Guo, Agnes Scott College, Alan Koch, Agnes Scott College
- 10:20 27.2 *The 15 Puzzle*, Kelsey Johnson, Elon University
- 10:40 27.3 *Using Origami to Teach Proof Techniques*, Patrick Dukes, Joe Rusinko, Winthrop University
- 11:00 27.4 *Reality Math*, Dot Sulock, University of N Carolina at Asheville
- 11:20 27.5 *Modeling of the Kidney Transplant Waiting List*, Natalie Ross, Elon University
- 11:40 27.6 *Foundations of Mathematics Undergraduate Constructed TeXBook*, Jacob Watson, Timothy Sawicki, Kristina Bender, University of North Carolina Asheville

28. Undergraduate Papers Session G, Organizer Luis Cueva-Parra**Koury Business Center Room 302**

- 10:00 28.1 *Toric Models for Generating Biological Sequences*, Rebecca Rodger, Samford University
Continued on next page
- 10:20 28.2 *The Effects of Fire on Red-tailed Leafhoppers*, Jasmine Alexander, UNC-Greensboro
- 10:40 28.3 *Factoring Polynomials of Type $(x - a_1)(x - a_2) \cdots (x - a_n) \pm 1$* , Stephen Nanney, Western Carolina University
- 11:00 28.4 *Evolving Discriminators and other Algebraic Terms: Genetic Programming as a Mathematical Tool*, Robert French, Austin Peay State University
- 11:20 28.5 *Mathematical Modeling of Human Arm Motion for Optimization*, Ericka Butler, Savannah State University
- 11:40 28.6 *The Amazing Mathematical Beauty Of The Lucas Numbers*, Jorris Alford, Savannah State University

12:10—1:00 Math Jeopardy Final Round: McKinnon

Math Jeopardy Participating Institutions, Sponsors, and Competitors**Agnes Scott: Sponsor - Myrtle Lewin**

Students: Chan Jin, Rose Psalmond, Rose Psalmond, Jia Yu, Qian Zhang

Auburn-Montgomery: Sponsor - Luis Cueva-Parra

Students: Mark Guest, Vincent Heningburg, Vincent Heningburg, Pratik Patel

Augusta State College: Sponsor - Cornelius Stallman

Students: Ashwin Devendiran, James Egbu, James Egbu, Sterling Nash, Talyssa Tulsie

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Slate of Nominees for Offices

Southeastern Section of the Mathematical Association of America

The Nominating Committee (Chair: Charlotte Knotts-Zides) has prepared a slate of candidates for offices to be elected at the Annual Meeting. The persons nominated below have all agreed to serve if elected to their respective positions.

Election of officers to open positions shall be at a business meeting held at the Annual Meeting of the Section. A person nominated and seconded from the floor by any Section member shall be added to the Nominating Committee's slate providing the person nominated has agreed to serve if elected. Election shall be by majority vote of the members of the Section present and voting at the business meeting. Terms of newly elected officers shall begin at the adjournment of the Annual Meeting in which they are elected. (Southeastern Section Bylaws, Article III.4)

<u>Position</u>	<u>Candidate</u>
Chair-Elect	Jeff Knisley East Tennessee State University
Vice-Chair for Two-Year Colleges	Queen Harris Georgia Perimeter College
Program Vice-Chair	Pat Humphrey Georgia Southern University
Section Lecturer	To Be Announced
Student Activities Coordinator	Laurie Heyer Davidson College
State Director Alabama	David Dempsey Jacksonville State University
State Director Georgia	Catherine Matos Clayton 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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