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# **SOUTHEASTERN SECTION**

## Ninety-third Annual Meeting

Tennessee Technological University  
Cookeville, Tennessee  
Thursday—Saturday, 13—15 March 2014

<http://sections.maa.org/southeastern/maase/conference2014/>

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### Thursday, 13 March

- 1:45 – 3:00 pm**      **Registration, Bryan Fine Arts Building Lobby**
- 2:00 – 5:00 pm**      **Project NExT-SE Activities, Johnson Hall, Room 208**
- 6:15 – 8:00 pm**      **Registration, Bryan Fine Arts Building Lobby**
- 6:30 – 9:30 pm**      **Executive Committee Dinner and Meeting:  
Roaden University Center, Noble Cody Executive Suite**

**Student Treasure Hunt. Organizer: Julie Barnes**

- 7:00 pm**              **Check-in, Bruner Hall Lobby**
- 7:30 pm – 9:30**      **Activities in Bruner Hall**
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### Friday, 14 March

- 7:00 – 4:30**      **Registration, Bryan Fine Arts Building Lobby**
- 8:00 – 11:30**      **Refreshments available, Bryan Fine Arts Building Lobby**
- 8:00 – 11:30**      **Refreshments available, Johnson Hall, Room 104**
- 8:00 – 11:30**      **Project NExT-SE Activities, Johnson Hall, Room 208**
- 8:00 – 11:45**      **Math Jeopardy:**  
**8:00-11:00 Preliminary Rounds, Johnson Hall, Rooms 218, 308, and 401**  
                         **These rounds begin at 8:00, 9:00, and 10:00.**  
**11:00-11:45 Semifinals, Johnson Hall, Rooms 218, 308, and 401**  
**Organizers: Ron Taylor (Berry College), Mike Berry (UT Knoxville), Jeffrey Powell**  
                         **(Samford University) and Brian Wagner (UT Martin).**  
**Moderators: Mike Berry (UT Knoxville), Brian O'Connor (Tennessee Tech),**  
                         **Keshav Jagannathan (Coastal Carolina University).**

**8:30 – 11:30 Short Courses and Workshops**

- ❖ WS.1 *Workshop on Computer-Based Precalculus and Calculus*, Francesco Strazzullo, Reinhardt University, Johnson Hall Room 307
- ❖ WS.2 *Graduate Student Career Development Workshop*, Presenter TBA, Johnson Hall Room 209

**Johnson Hall, Room 103. Distinguished Lectures for Students. Session Chair: Joe Rusinko, Winthrop University**

- ❖ 9:00 DS.1\* *Fighting infections with mathematics*, Judy Day, University of Tennessee
- ❖ 10:00 DS.2\* *Some classical minimization problems*, Ted Shifrin, University of Georgia

**Johnson Hall, Room 220. Contributed Session on Algebra, Combinatorics, and Logic.**

Time	Talk Number	Title	Presenter	Affiliation
10:00	CT1.1	<i>Algebra from geometry in the card game SET</i>	Timothy Goldberg	Lenoir-Rhyne University
10:20	CT1.2	<i>Magic Matrices and the Chamber of Four</i>	William Griffiths	Southern Polytechnic State University
10:40	CT1.3	<i>A Strategic Attack on a Secret Sharing Scheme</i>	Michael Freeze	UNC Wilmington
11:00	CT1.4	<i>Magic Polygrams</i>	Karen Yokley	Elon University
11:20	CT1.5	<i>Casus Irreducibilis over Finite Fields</i>	Matt Lunsford	Union University
11:40	CT1.6	<i>The Dynamic Quote-and-Prove Rules: A Swift, Comprehensive, and Inerrant Method for Structuring Informal Proof</i>	Damon Scott	Francis Marion University

**Johnson Hall, Room 302. Contributed Session on Applications of Mathematics I.**

Time	Talk Number	Title	Presenter	Affiliation
10:00	CT2.1*	<i>Application of flow network in reversing the mutation of cancer cells</i>	Yiran Zhang	Georgia Southern University
10:20	CT2.2*	<i>Area based fan beam projection model for computed tomography</i>	Phillip Stevens	Georgia Southern University
10:40	CT2.3	<i>Simulating the Allee effect in <i>Urocyon littoralis</i> populations with an agent-based model</i>	Anne Yust	Birmingham-Southern College
Additional Authors: Erin Bodine (Rhodes College), Jim Crowder (Birmingham-Southern College), Huda Qureshi (Birmingham-Southern College), Allison Russell (Birmingham-Southern College), Shelby Scott (Rhodes College)				
11:00		<b>NO TALK</b>		
11:20	CT2.5	<i>Autonomous View from Nonautonomous Data</i>	Amal El Moghraby	North Carolina A&T State University

**9:00—11:30 Tours of the Millard Oakley STEM Center (Dr. Sally Pardue, Director), Ray Morris Hall, 7<sup>th</sup> St. and Stadium Drive (Southwest corner of campus).**

**9:30 – 4:00 Exhibits, Bryan Fine Arts Building Lobby**

**11:45 – 12:30 Graduate School and Career Fair: Roaden University Center, Multipurpose Room. Networking, professional development, career planning and free pizza for undergraduates.**

**11:30 – 12:30 Lunch available for purchase in the basement of the Roaden University Center**

**11:30 – 12:30 Liaisons' Lunch. Roaden University Center, Noble Cody Executive Suite**

**12:45 – 1:45 GS.1 General Session I, Bryan Fine Arts Center, Wattenbarger Auditorium, Sarah Raynor, MAA-SE Vice Chair for Programs, Presiding**

**Welcome from Tennessee Technological University: Dr. Bahman Ghorashi, Provost and Vice President for Academic Affairs**

**Invited address:**

*Fifty Years of Chaos: From Strange Attractors to Complex Systems to Big Data*, Jeff Knisley, East Tennessee State University

**2:00 -- 4:00 Refreshments available, Bryan Fine Arts Building Lobby**

**2:00 -- 4:00 Refreshments available, Johnson Hall, Room 104**

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

**Johnson Hall 401. 2:00—2:50 Publisher Presentations.**

**PUB.1 2:00 - 2:50 *The Next Big Thing: Tablet Compatible Mathematics Courseware*, Emily Jones, Hawkes Learning Systems**

Courseware Development Engineers at Hawkes Learning have designed an innovative, browser-based platform built specifically with the tablet in mind. Our Expert System offers a distinctive approach to mastery-based learning with instant and specific feedback when students make a mistake, thus improving learning outcomes and reducing anxiety. Plugins or installations are no longer required, allowing students to quickly jump into the material. Come and learn about Hawkes' big launch and be entered to win an Amazon gift card!

**Johnson Hall Room 308. Special Session on Writing in Mathematics, Part I. Organizer: Emily Braley, Duke University**

<b>Time</b>	<b>Talk Number</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
2:00	WC1.1*	<i>Using Writing in Undergraduate Mathematics Classes to Dispel "Word Problem" Anxiety and Enhance Mathematical Understanding</i>	Tonya Adkins	Johnson & Wales University - Charlotte
2:20	WC1.2*	<i>Real World Projects, Real World Writing</i>	Andrew J Miller	Belmont University
2:40	WC1.3	<i>Reflective Writing</i>	Emily Braley	Duke University

**Johnson Hall 310. Special Session on the Teaching of Courses in the First Two Years of College, Part I. Session Chair: Alice Pierce, Georgia Perimeter College**

<b>Time</b>	<b>Talk Number</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
2:00	FT1.1*	<i>Inverted classrooms for lower-level math courses—A flipping challenge?</i>	Adam Graham-Squire	High Point University
Additional Author: Karen O'Hara (High Point University)				
2:20	FT1.2*	<i>A Personalized Solution for Increasing Student Success</i>	Marcela Chiorescu	Georgia College
Additional Author: Rodica Cazacu (Georgia College)				
2:40	FT1.3*	<i>Engaging Students in the College Algebra Classroom</i>	Kathy Cousins-Cooper	North Carolina A&T State University
Additional Author: Katrina Staley (North Carolina A&T State University)				
3:00	FT1.4*	<i>Cultivating Skills for the Real World</i>	Cindy Box	Georgia Perimeter College
3:20	FT1.5*	<i>Interactive Instruction in College Algebra</i>	Viveka Borum	Spelman College
3:40	FT1.6	<i>College Algebra Course Redesign</i>	Kay Geving	Belmont University

**Johnson Hall Room 302. Special Session on Lessons Learned from the Virtual Classroom. Organizer: Carl Yerger, Davidson College.**

<b>Time</b>	<b>Talk Number</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
2:00	VC1.1*	<i>Online Learning via the IPython Notebook</i>	Jeff Knisley	East Tennessee State University
2:20	VC1.2*	<i>Researching through the firewall: Lessons learned participating in an international high school research program</i>	Carl Yerger	Davidson College
2:40	VC1.3*	<i>Employing the Math Emporium Model to Engage Students in Key Freshman-Level Math Courses.</i>	Nicholas S. Luke	North Carolina A&T State University
3:00	VC1.4*	<i>My Trek Into the Great Online Unknown</i>	Jeffrey Powell	Samford

				University
3:20	VC1.5	<i>Lessons Learned from a First-Time Online College Algebra Course</i>	Jon Ernstberger	LaGrange College

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### Johnson Hall Room 209. Special Session on Critiqued Presentations by Graduate Students. Organizer: Sarah Frick, Furman University

Time	Talk Number	Title	Presenter	Affiliation
2:00	GR1.1*	<i>On the Stability of Solutions of a Phase Transition Model</i>	Heather Hardeman	Wake Forest University
		Additional Author: Stephen Robinson (Wake Forest University)		
2:20	GR1.2*	<i>Crystal Basis Theory</i>	Ethan A. Smith	Appalachian State University
		Additional Author: Vicky Klima (Appalachian State University)		
2:40	GR1.3*	<i>On Complex Newton's Method</i>	Thomas Cook	Appalachian State University

### Johnson Hall Room 411. Contributed Session on General Math Education, Part II

Time	Talk Number	Title	Presenter	Affiliation
2:00	CT4.1	<i>Ideas for Ending a Course Effectively</i>	Mike Pinter	Belmont University
2:20	CT4.2	<i>Herding Cats - Using an Attendance App to Learn Names and Keep Up with Your Students</i>	Robin Lovgren	Belmont University
2:40	CT4.3	<i>What Colleges Expect and What They Actually See</i>	Josie Ryan	Lander University
3:00	CT4.4	<i>x Marks the Spot: Student Conceptions of Variable</i>	Benjamin Wescoatt	Valdosta State University
3:20	CT4.5	<i>Write Your Own Math Textbook</i>	Paul Baker	Catawba College
3:40	CT4.6	<i>Empowering Students through Mathematica</i>	Laura Lynch	College of Coastal Georgia

### Johnson Hall Room 402. Contributed Session on Number Theory and Combinatorics.

Time	Talk Number	Title	Presenter	Affiliation
2:00	CT5.1	<i>Some Convolution Identities Involving Fibonacci and Tribonacci Numbers</i>	Curtis Herink	Mercer University
2:20	CT5.2*	<i>A new twist on the Ping-Pong lemma...and why we care.</i>	Josh Hiller	Western Carolina University
2:40	CT5.3*	<i>3-terms recurrence coefficients of a special orthogonal family</i>	Anh Tran	Georgia Southern University

		Additional Author: Shuai Yuan (Georgia Southern University)		
3:00	CT5.4*	<i>Analogues of the Prime Number Theorem in Certain Rings of Integers</i>	Eric B. Morgan	Tennessee Tech University
3:20	CT5.5	<i>Anti-Waring Numbers</i>	Chris Fuller	Cumberland University
3:40	CT5.6	<i>Convolution and GCD Properties in Hosoya's Triangle.</i>	Antara Mukherjee	The Citadel
		Additional Authors: Rigoberto Florez (The Citadel), Robinson Higuera (Universidad de Antioquia), Leandro Junes (California University of Pennsylvania)		

### Johnson Hall Room 411. Contributed Session on Analysis and Differential Equations

Time	Talk Number	Title	Presenter	Affiliation
2:00	CT6.1	<i>Chebyshev's Sum Inequality on Positive Tensor Products</i>	Wei-Kai Lai	University of South Carolina Salkehatchie
2:20	CT6.2	<i>Diffusive logistic equation with constant yield harvesting and negative density dependent emigration on the boundary</i>	Jerome Goddard II	Auburn University Montgomery
		Additional Author: R. Shivaji (University of North Carolina Greensboro)		
2:40	CT6.3	<i>Fredholm Integral Equations of the Second Kind: A Solved Example and an Unsolved Example</i>	Iason Rusodimos	Georgia Perimeter College
		Additional Author: Barrett Walls (Georgia Perimeter College)		
3:00	CT6.4*	<i>Some Results on Periodicities for Min-Max Recursive Sequences</i>	Heather M Gaddy	Wake Forest University
		Additional Author: Kenneth Berenhaut (Wake Forest University)		
3:20	CT6.5	<i>A new twist on one of the oldest calculus problems</i>	Jeffrey Norden	Tennessee Tech University

### Johnson Hall Room 209. Contributed Session on Probability and Statistics and Coding Theory.

Time	Talk Number	Title	Presenter	Affiliation
2:00	CT7.1*	<i>On the Inverse New Modified Weibull Distribution</i>	Valeriia Sherina	Georgia Southern University
		Additional Author: Broderick Oluyede (Georgia Southern University)		
2:20	CT7.2*	<i>Gamma Exponentiated New Modified Weibull Distribution</i>	Shusen Pu	AMS
2:40	CT7.3	<i>The Kumaraswamy Generalized Lindley Distribution with Applications to Lifetime Data</i>	Tiantian Yang	Georgia Southern University
		Additional Author: Broderick Oluyede (Georgia Southern University)		
3:00	CT7.4	<i>Rethinking MLB Batting Average</i>	Darin Mohr	Georgia College
3:20	CT7.5	<i>Optimal metric distance on registered curves with application to a Fourier transform-infrared spectroscopy analysis of maize</i>	Yishi Wang	UNC Wilmington
3:40	CT7.6	<i>The Number of Zeros of Linear Recurring Sequences over Finite Fields</i>	Yasanthi Kottogoda	Southern Illinois University

				Carbondale
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**Johnson Hall, Room 304. Undergraduate Papers Session A. Applications of Mathematics, Part II.  
Organizer: Joseph Rusinko, Winthrop University**

Time	Talk Number	Title	Presenter	Affiliation
2:00	UG1.1	<i>Searching For Optimal Solutions Using Ant Algorithms</i>	Rahul Issac	Furman University
2:20	UG1.2	<i>Machine Learning for Phylogenetic Invariants</i>	Hannah Swan	Winthrop University
		Additional Authors: Dr. Joseph Rusinko (Winthrop University), Brian Hipp (Winthrop University), Emili Price (Winthrop University)		
2:40	UG1.3	<i>A mathematical model of linear cancer networks with radiation therapy</i>	Olivia Manley	Winthrop University
3:00	UG1.4	<i>Modeling Interactions among Migrating Species</i>	Anne Talkington	Duke University
3:20	UG1.5	<i>How to Violate the Second Law of Thermodynamics While Shooting Pool</i>	Aaron Smith	Coastal Carolina University
		Additional Author: David Duncan (Coastal Carolina University)		
3:40	UG1.6	<i>An Agent-based Model for a Caribbean Coral Reef</i>	Chelsey Beese	Coastal Carolina University

**Johnson Hall Room 318. Undergraduate Papers Session B. Graph Theory and Combinatorics.  
Organizer: Joseph Rusinko, Winthrop University.**

Time	Talk Number	Title	Presenter	Affiliation
2:00	UG2.1	<i>On the Edge-Balanced Index Set of <math>K_{\{7,6\}}</math></i>	Hung Hua	Clayton State University
		Additional Authors: Elliot Krop (Clayton State University), Pritul Patel (Clayton State University), Christopher Raridan (Clayton State University)		
2:20	UG2.2	<i>Fighting Fires with Fighters</i>	Stella Watson	Furman University
2:40	UG2.3	<i>Odd-Domination on the Torus: a Solitaire Puzzle</i>	William Lewis	Furman University
3:00	UG2.4	<i>Polynomials and The Construction of <math>N</math>-to-1 Graphs</i>	Michelle Randolph	UNC Asheville
		Additional Author: Halley McCormick (Whitman College)		
3:20	UG2.5	<i>Tree Decomposition of Cayley Digraphs</i>	Evan Moore	Kennesaw State University
3:40	UG2.6	<i>Pebbling Graphs of Diameter Two on Surfaces</i>	Matt Mohorn	Davidson College
		Additional Author: Carl Yerger (Davidson College)		



**Johnson Hall Room 408. Undergraduate Papers Session C. Analysis and Computation.  
Organizer: Joseph Rusinko, Winthrop University.**

Time	Talk Number	Title	Presenter	Affiliation
2:00	UG3.1	<i>Solving elliptic PDE using polynomial basis functions via perturbed collocation.</i>	Dodji Kuwonu	Austin Peay State University
		Additional Author: Samuel Jator (Austin Peay State University)		
2:20	UG3.2	<i>A Numerical Method with Non-Polynomial Basis for Solving Singular Initial Value Problems</i>	Michael McAllister	Austin Peay State University
		Additional Author: Samuel Jator (Austin Peay State University)		
2:40	UG3.3	<i>Solving the Telegraph Equation by a hybrid Nystrom Method</i>	Bruce Cain	Austin Peay State University
		Additional Author: Samuel Jator (Austin Peay State University)		
3:00	UG3.4	<i>Mathematics Behind Lighting and Shading Techniques within 3-D Computer Graphics</i>	Samantha Scoggins	Methodist University
3:20	UG3.5	<i>Ecological systems with aggregation, grazing, and Sigma-shaped bifurcation curves</i>	Lyndee Bobo	Auburn University Montgomery
		Additional Authors: Zach Burnett (Auburn University Montgomery) Heather Pierce (Auburn University Montgomery)		
3:40	UG3.6	<i>Iteration of the Takagi Function</i>	Meg Fields	UNC Asheville
		Additional Author: Mark McClure (UNC Asheville)		

**Johnson Hall Room 409. Undergraduate Papers Session D. Algebra, Probability, and Statistics.  
Organizer: Joseph Rusinko, Winthrop University.**

Time	Talk Number	Title	Presenter	Affiliation
2:00	UG4.1	<i>The Classification of Biquotients of the Form <math>Sp(3)/Sp(1)^2</math></i>	Robert DeYeso	University of Tennessee Martin
		Additional Authors: Jason DeVito (University of Tennessee at Martin), Michael Ruddy (University of Tennessee at Martin), Philip Wesner (University of Tennessee at Martin)		
2:20	UG4.2	<i>Introduction to Percolation Theory and Cluster Size Analysis</i>	Michael Ackerman	Georgia Southern University
2:40	UG4.3	<i>Brownian Motion and Probability Simulations</i>	Annie Brunelle	Belmont University
3:00	UG4.4	<i>Impact of Censoring on Estimator of Slope Parameter in a Simple Regression Model</i>	Angela Gaetano	Belmont University
		Additional Author: Scott Linder (Ohio Wesleyan University)		
3:20	UG4.5	<i>Exploring Programmed Evolution Using Agent-Based Modeling</i>	Micah Brown	Davidson College

**4:15 – 5:20 GS.2\* General Session II, Bryan Fine Arts Building, Wattenbarger Auditorium, Martha Abell, Section Governor, presiding. Awards.**

**Invited address:**

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\* Indicates a faculty/professional presentation suitable for students  
TBA, Ronald Taylor, Berry College, 2013 MAA-SE Section Teaching Award

- 5:45 pm**      **Conference Dinner, Roaden University Center, Multipurpose Room**  
**Entertainment: Ballinger Family Band, bluegrass/Americana**
- 7:15 pm**      **Movie: “Top Secret Rosies,” Roaden University Center, Multipurpose Room**
- 8:00-10:30pm** **Fun on the West Side—Cybertag (preregistration and additional fee required),**  
**other activities TBA**

**Saturday, 15 March**

**7:30 – 10:30**    **Registration, Bryan Fine Arts Building Lobby**

**7:50 – 8:35**    **MAA Business Meeting, Johnson Hall, Room 401**

**Important Vote on By-Laws Changes to be made—Secretary-Treasurer proposed to become two separate positions! These were e-mailed to members in January; additional copies will be available at the meeting.**

**8:45 – 9:45**    **GS.3\* General Session III, Bryan Fine Arts Building, Wattenbarger Auditorium, Queen Harris, MAA-SE Chair, presiding.**

**Invited Address: *The Fractal Geometry of the Mandelbrot Set*, Robert Devaney, MAA President, Boston University.**

**8:00 – 1:00**    **Exhibits, Bryan Fine Arts Building Lobby**

**8:00 – 11:30**    **Refreshments available, Bryan Fine Arts Building Lobby**

**8:00 – 11:30**    **Refreshments available, Johnson Hall, Room 104**

**10:00 – 11:30**    **Department Chairs’ Meeting, Johnson Hall, Room 401**

**7:30 – 10:10**    **Undergraduate Poster setup, Bryan Fine Arts Building Lobby**

**10:10 – 10:45**    **Undergraduate Poster judging, Bryan Fine Arts Building Lobby**

**10:45 – 12:00**    **Undergraduate Poster Session, Bryan Fine Arts Building Lobby. Organizer: Christopher Raridan, Clayton State University**

<b>Talk Number</b>	<b>Title of Poster</b>	<b>Presenter</b>	<b>Affiliation</b>
UP1.1	<i>Analysis of resource allocation through game theory</i>	Brittney Benzio	Georgia Southern University
UP1.2	<i>Geometric Representations of Dedekind's Proof of Irrationality</i>	Kimberly Stubbs	UNC-Asheville
UP1.3	<i>A mathematical model of treatment of a linear cancer network with immunotherapy</i>	Gabrielle Epelle	Winthrop University
	Additional Author: Dr. Zach Abernathy (Winthrop University)		

UP1.4	<i>Extending the "nth Prime Page" to <math>10^7</math></i>	Andrew Carr	University of Tennessee at Martin
	Additional Author: Chris Caldwell (University of Tennessee at Martin)		
UP1.5	<i>Using Linear Cancer Networks to Model Photodynamic Therapy</i>	Lynnique Johnson	Winthrop University
UP1.6	<i>A Hormone Therapy Model for Breast Cancer Using Linear Cancer Networks</i>	Michelle McDuffie	Western Carolina University
UP1.7	<i>Hoberman Brain Twist</i>	Sierra Doherty	Coastal Carolina University
UP1.8	<i>A Self-Starting Adams Method based on a trigonometric interpolant for Orbital Problems</i>	Benjamin Hardin and Brent Champion	Austin Peay State University
	Additional Authors: Samuel Jator (Austin Peay State University)		
UP1.9	<i>The Value of pi in Different Metrics</i>	Afzal Fazal	Berry College
UP1.10	<i>The Positive Triangle Game</i>	Robby Quarles	Berry College
UP1.11	<i>A New Numerical Scheme for Wave Equations</i>	Huda Qureshi	Birmingham-Southern College
	Additional Author: Mark Rupright (Birmingham-Southern College)		
UP1.12	<i>On Inscribing a Sequence of Polygons In a Circle</i>	Sarah Myers	Berry College
UP1.13	<i>Fractals and Julia Sets</i>	Michael Hood	Coastal Carolina University

### 10:00 – 12:00 Concurrent Special and Contributed Sessions

#### Johnson Hall Room 401. 10:00—10:50 Publisher Presentations.

PUB.2 10:00 - 10:50 *Engaging the Instant Feedback Generation*, Malissa Peery, Cengage Learning and University of Tennessee

Today's students do not have to stand in line to register for classes or go to the campus bookstore to buy their textbooks. They don't even have to wait until scheduled office hours to ask a question of their instructor. Everything they need is available at the click of a button. They expect instant feedback. Engaging today's students can be a challenge, but the use of online homework and clickers gives students the instant feedback they crave. At the same time, these engaging technologies help instructors encourage effective use of the textbook and require students to be responsible for learning.

#### Johnson Hall Room 303. Special Session on the Teaching of Courses in the First Two Years of College, Part II. Session Chair: Alice Pierce, Georgia Perimeter College

Time	Talk Number	Title	Presenter	Affiliation
10:00	FT2.1*	<i>A Discrete Math Modeling Course with an Emphasis on Biological Applications and No Calculus PreReq</i>	Erin N. Bodine	Rhodes College

10:20	FT2.2*	<i>Infusing Precalculus with the Life Sciences</i>	Zahava Wilstein	Berry College
10:40	FT2.3*	<i>Bridging the Prerequisite Knowledge Gaps for Calculus Students</i>	Joanna Wilson	Georgia Perimeter College
11:00	FT2.4	<i>Designing Calculus I Applets: A Course Project</i>	Vicky Klima	Appalachian State University
		Additional Author: Karen Briggs (University of North Georgia)		
11:20	FT2.5*	<i>A Modified Moore Method in PreCalculus</i>	Thomas Cooper	University of North Georgia
11:40	FT2.6*	<i>Watch that Rounding!</i>	J D Fortin	Johnson & Wales University

**Johnson Hall Room 308. Special Session on Writing in Mathematics, Part II. Organizer: Emily Braley, Duke University**

Time	Talk Number	Title	Presenter	Affiliation
10:00	WC2.1*	<i>Grading Written College Mathematics -- Methods and Outcomes</i>	Rann Bar-On	Duke University
10:20	WC2.2*	<i>LaTeXnics: the effect of technical typesetting software on students' writing processes</i>	Patrick Bahls	University of North Carolina, Asheville
		Additional Author: Amanda Wray (University of North Carolina, Asheville)		
10:40	WC2.3*	<i>Teaching students how to write mathematics: addressing writing issues in freshman seminars, bridge classes, and senior capstone courses</i>	Julie Barnes	Western Carolina University
11:00	WC2.4*	<i>Math in the City: Writing Outside the Classroom</i>	Liz Bouzarth	Furman University
11:20	WC2.5*	<i>Mat-Rix-Toe: Improving Writing in Linear Algebra</i>	Adam Graham-Squire	High Point University
10:00	WC2.6*	<i>Grading Writing Assignments in First Year Mathematics Classes</i>	Jack Bookman	Duke University

**Johnson Hall Room 310. Special Session on Presentations by Beginning Faculty. Organizer: Karen O'Hara, High Point University**

Time	Talk Number	Title	Presenter	Affiliation
10:00	BF1.1*	<i>The Nine Card Problem: The Mystery Revealed</i>	Breeanne Baker	The Citadel
10:20	BF1.2*	<i>Stability and Pattern Formation in a</i>	Erica Zuhr	High Point

		<i>Generalized Keller-Segel Model</i>		University
		Additional Authors: Patrick De Leenheer (Oregon State University), Jay Gopalakrishnan (Portland State University)		
10:40	BF1.3	<i>The classification of compact simply connected biquotients of dimension of dimension at most 7</i>	Jason DeVito	University of Tennessee at Martin
11:00	BF1.4	<i>Syndactyl LCMs: What Are They?</i>	Benjamin Wescoatt	Valdosta State University
11:20	BF1.5	<i>Artin's Conjecture in Multiquadratic Fields</i>	Maria Stadnik	Birmingham-Southern College
11:40	BF1.6*	<i>Radio Labeling of Graphs</i>	Amanda Niedzialomski	University of Tennessee at Martin
12:00	BF1.7	<i>Positive definite functions. The extension problem.</i>	Robert Niedzialomski	University of Tennessee at Martin

**Johnson Hall Room 218. Special Session on the Pedagogy of Probability and Statistics Courses.  
Organizer: Keshav Jagannathan, Coastal Carolina University**

Time	Talk Number	Title	Presenter	Affiliation
10:00	PS1.1*	<i>Developing Consistency in The Terminology and Display of Bar Graphs and Histograms</i>	Pat Humphrey	Georgia Southern University
		Additional Authors: Sharon Taylor (Georgia Southern University), Kathleen Cage Mittag (University of Texas at San Antonio)		
10:20	PS1.2*	<i>Statistics and Service Learning in the Campus Garden</i>	John Wagaman	Western Carolina University
10:40	PS1.3*	<i>Using Technology to Motivate an Understanding of Sampling Distributions</i>	David A. Steele	UNC-Asheville
11:00	PS1.4*	<i>Teaching Probability and Statistics with a Historical Perspective</i>	Jose Almer Sanqui	Appalachian State University
11:20	PS1.5	<i>Regressions and Refutations: On the Logic of Model Discovery</i>	Philip Larson	Greenville Technical College

**Johnson Hall Room 411. Contributed Session on Math Education, Part III.**

Time	Talk Number	Title	Presenter	Affiliation
10:00	CT8.1	<i>IBL in ODE</i>	Curtis Kunkel	University of Tennessee Martin
10:20	CT8.2	<i>My experience of teaching linear algebra</i>	Tin-Yau Tam	Auburn University

10:40	CT8.3	<i>Pre-service Teachers and Numerical Reasoning</i>	Bernadette Mullins	Birmingham-Southern College
		Additional Authors: Maria Stadnik (Birmingham-Southern College), Anne Yust (Birmingham-Southern College)		
11:00	CT8.4	<i>Honest Multivariable Calculus</i>	Jeffrey Clark	Elon University
11:20	CT8.5	<i>College Geometry Instruction Assisted by Geometer's Sketchpad</i>	Paul Baker	Catawba College
3:20	CT8.6*	<i>Random Fun With a Calculator</i>	David Vogel	Middle Georgia State College

**Johnson Hall Room 402. Contributed Session on Geometry, Topology, History of Math, and Number Theory.**

<b>Time</b>	<b>Talk Number</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
10:00	CT9.1*	<i>Symmetries in Taxicab Geometry</i>	Kasey Jones	Western Carolina University
10:20	CT9.2	<i>Are the Knot Crossings really there?</i>	Ramanjit Sahi	Austin Peay State University
10:40	CT9.3	<i>Sweeping Polygons with Line Segments</i>	Tzvetalin Vassilev	Nipissing University
		Additional Authors: Borislav Karaivanov (University of South Carolina), Minko Markov (Sofia University)		
11:00	CT9.4	<i>Max Dehn's Early Work in Topology</i>	David Peifer	UNC Asheville
11:20	CT9.5	<i>Math History by a Thread</i>	Leigh Atkinson	UNC Asheville
11:40	CT9.6	<i>Product of sum of squares and sum of reciprocal squares of consecutive Fibonacci numbers</i>	Tieling Chen	University of South Carolina Aiken
		Additional Author: Shan Cong (Wuhan Textile University, China)		

**Johnson Hall Room 208. Contributed Session on Graph Theory.**

<b>Time</b>	<b>Talk Number</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
10:00	CT10.1	<i>Edge-balanced index sets of complete bipartite graphs</i>	Christopher Raridan	Clayton State University
		Additional Authors: Hung Hua (Clayton State University), Elliot Krop (Clayton State University), Pritul Patel (Clayton State University)		

10:20	CT10.2	<i>Monochromatic Sinks in 3-Switched Tournaments Without Rainbow Triangles</i>	Adam Bland	Middle Georgia State College
		Additional Author: Jeremy Aikin (Middle Georgia State College)		
10:40	CT10.3*	<i>Graphs and Matrices: Finding Your Way From A To B</i>	Anthony Coggins	Georgia Southern University
		Additional Author: Jimmy Dillies (Georgia Southern University)		
11:00	CT10.4*	<i>Graphs with Cut Vertices and Zagreb Indices</i>	James Adam Schrum	Western Carolina University
		Additional Author: Risto Atanasov (Western Carolina University)		
11:20	CT10.5	<i>Classifying Coloring Graphs</i>	Kara Shavo	Presbyterian College
		Additional Authors: Ruth Haas (Smith College), Julie Beier (Earlham College), Heather Russell (Washington College)		
11:40	CT10.6*	<i>Distance subtrees and middle parts of trees</i>	Shuai Yuan	Georgia Southern University

**Johnson Hall Room 209. Contributed Session on Applications of Mathematics, Part II.**

Time	Talk Number	Title	Presenter	Affiliation
10:00	CT11.1*	<i>Epistasis in Predator-Prey Model</i>	Iuliia Inozemtseva	Georgia Southern University
		Additional Author: James Braselton (Georgia Southern University)		
10:20	CT11.2*	<i>Modeling Soybean Yield Using Climate Data</i>	Jamie L Rowell	Western Carolina University
10:40	CT11.3	<i>The Leontief Input-Output Production Model And Its Application To Inventory Control</i>	Aniekan Ebiefung	University of Tennessee
		Additional Author: Clare Obikwere (University of Calabar, Nigeria)		
11:00	CT11.4	<i>A block hybrid method for the direct solution of second order initial value problems</i>	Fidele Ngwane	USC Salkehatchie
		Additional Author: Samuel Jator (Austin Peay State University)		
11:20	CT11.5	<i>Magical Matrices which Decompose Polygons Stellarly</i>	Doug Burkholder	Lenoir-Rhyne University

**Johnson Hall Room 408. Undergraduate Papers Session E. Algebra, Combinatorics, and Graph Theory. Organizer: Joseph Rusinko, Winthrop University.**

Time	Talk Number	Title	Presenter	Affiliation
10:00	UG5.1	<i>Poset Diagrams of Extended Symmetric Spaces</i>	J. Tyrel Winebarger	Appalachian State University
		Additional Author: Vicky Klima (Appalachian State University)		
10:20	UG5.2	<i>Voting Theory</i>	Kent Vashaw	Appalachian State University

		Additional Author: Vicky Klima (Appalachian State University)		
10:40	UG5.3	<i>Finite Superideal Domains</i>	Ashley M. Lawson	Tennessee Tech University
		Additional Author: Andrew Hetzel (Tennessee Tech University)		
11:00		<b>NO TALK</b>		
11:20	UG5.5	<i>Math behind Dots</i>	Amar Idrizović	Methodist University
11:40	UG5.6	<i>Classifying Finite Groups</i>	Katelyn Yeomans	Georgia Southern University

**Johnson Hall Room 304. Undergraduate Papers Session F. Applications and Computation.  
Organizer: Joseph Rusinko, Winthrop University.**

Time	Talk Number	Title	Presenter	Affiliation
10:00	UG6.1	<i>The Expected Utility of a Stabilized Middle Class in a Socioeconomic Model</i>	Carol Sadek	Wofford College
10:20	UG6.2	<i>Tracking a Soccer Ball in Soccer Broadcast Videos</i>	Christian Weigandt	High Point University
10:40	UG6.3	<i>Performance of Newton-Based Iterative Root Finders</i>	Kayla Cline	LaGrange College
11:00	UG6.4	<i>The Mathematics in Math Placements</i>	Thomas Clevenger	LaGrange College
11:20	UG6.5	<i>Web-Based Analytical Tools for Golden Gate Assembly</i>	Jackson Spell	Davidson College
		Additional Author: Micah Brown (Davidson College)		
11:40	UG6.6	<i>Is Democracy a Total Train Wreck? An Exploration of Voting Anomalies in Real-World Data</i>	Nick Zayatz	High Point University
		Additional Author: David Naylor (High Point University)		

**Johnson Hall Room 318. Undergraduate Papers Session G. Applications and Computation.  
Organizer: Joseph Rusinko, Winthrop University.**

Time	Talk Number	Title	Presenter	Affiliation
10:00	UG7.1	<i>Metacognitive Writing in Introductory Mathematics Courses</i>	Carmen Cox	Duke University
		Additional Author: Emily Braley (Duke University)		
10:20	UG7.2	<i>Concept analysis for incorporating common core into a mathematics classroom</i>	Dana Stanfill	University of Tennessee Martin
		Additional Author: Sarah Locke (University of Tennessee Martin)		
10:40	UG7.3	<i>Quasipositive Curvature on Biquotients of <math>Sp(3)</math></i>	Michael Ruddy	University of Tennessee Martin



		Additional Author: Philip Wesner (University of Tennessee at Martin)		
11:00	UG7.4	<i>Finding the sum of an infinite series that contains Fibonacci Numbers</i>	John D. Watson	The Citadel
11:20	UG7.5	<i>Collatz Sequences mod m and Parity Sequences</i>	Micah Jackson	Georgia Southern University
11:40	UG7.6	<i>Generating the Fibonacci Numbers, Literally</i>	Michael Burnette	University of Tennessee Martin

**12:15—1:15 Math Jeopardy Final Round: Bryan Fine Arts Building, Wattenbarger Auditorium**  
**Announcement of Student Prize Winners**

## Index of Speakers

<b>Talk Number</b>	<b>Last Name</b>	<b>First Name</b>	<b>Email Address</b>
UG4.2	Ackerman	Michael	ma at georgiasouthern dot edu
WC1.6	Adkins	Tonya	tonya.adkins at jwu dot edu
CT9.5	Atkinson	Leigh	atkinson at unca dot edu
WC1.2	Bahls	Patrick	pbahls at unca dot edu
BF1.1	Baker	Breeanne	bbaker at citadel dot edu
CT3.2, CT8.5	Baker	Paul	pbaker at catawba dot edu
WC1.3	Barnes	Julie	jbarnes at email.wcu dot edu
WC1.1	Bar-On	Rann	rb at duke dot edu
UG1.6	Beese	Chelsey	cmbeese at g.coastal dot edu
UP1.1	Benzio	Brittney	bb at georgiasouthern dot edu
CT10.2	Bland	Adam	adam.bland at mga dot edu
UG3.5	Bobo	Lyndee	lbobo at aum dot edu
FT2.1	Bodine	Erin	bodinee at rhodes dot edu
CT3.1	Bookman	Jack	bookman at math.duke dot edu
FT1.5	Borum	Viveka	vborum at spelman dot edu
WC1.4	Bouzarth	Liz	liz.bouzarth at furman dot edu
FT1.4	Box	Cindy	cbox at gpc dot edu
UG4.3	Brunelle	Annie	anne.brunelle at pop.belmont dot edu
CT11.5	Burkholder	Doug	Doug.Burkholder at LR dot edu
UG7.6	Burnette	Michael	micburn at ut.utm dot edu
UG3.3	Cain	Bruce	bcain at my.apsu dot edu
UP1.4	Carr	Andrew	andncarr at ut.utm dot edu
CT9.6	Chen	Tieling	Tielingc at usca dot edu
FT1.2	Chiorescu	Marcela	marcela.chiorescu at gcsu dot edu
CT8.4	Clark	Jeffrey	clarkj at elon dot edu
UG6.4	Clevenger	Thomas	tclevenger at student.lagrange dot edu
UG6.3	Cline	Kayla	kscline at student.lagrange dot edu
CT10.3	Coggins	Anthony	william_a_coggins at georgiasouthern dot edu
GS1.3	Cook	Thomas	cookt at appstate dot edu
FT2.5	Cooper	Thomas	thomas.cooper at ung dot edu
FT1.3	Cousins-Cooper	Kathy	cousinsk at ncat dot edu
UG7.1	Cox	Carmen	crc at duke dot edu
UG6.5	Davie	Kayla	kdavie at smail.spelman dot edu
DS.1	Day	Judy	judyday at utk dot edu
GS.3	Devaney	Bob	bob at bu dot edu
BF1.3	DeVito	Jason	jdevito at utm dot edu
UG4.1	DeYeso	Robert	robldeye at ut.utm dot edu
UP1.7	Doherty	Sierra	sndohert at g.coastal dot edu
CT11.3	Ebiefung	Aniekan	aniekan at ani dot aniekan
UP1.3	Epelle	Gabrielle	epelleg at winthrop dot edu
VC1.5	Ernstberger	Jon	jernstberger at lagrange dot edu
UP1.9	Fazal	Afzal	afzal.fazal at vikings.berry dot edu
UG3.6	Fields	Meg	mfields at unca dot edu
FT2.6	Fortin	J D	dfortin at jwu dot edu
CT1.3	Freeze	Michael	freezem at uncw dot edu
CT5.5	Fuller	Chris	cfuller at cumberland dot edu

CT6.4	Gaddy	Heather	gaddh at wfu dot edu
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FT1.6	Geving	Kay	kay.geving at belmont dot edu
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FT1.1	Graham-Squire	Adam	agrahams at highpoint dot edu
CT1.2	Griffiths	William	wgriffit at spsu dot edu
CT11.3	Hall	Phillip	hallp at aspu dot edu
GS1.1	Hardeman	Heather	hardhk at wfu dot edu
CT5.1	Herink	Curtis	herink_cd at mercer dot edu
CT5.2	Hiller	Josh	jphiller at catamount.wcu dot edu
UG2.1	Hua	Hung	hhua at student.clayton dot edu
PS1.1	Humphrey	Pat	phumphre at georgiasouthern dot edu
UG5.5	Idrizovic	Amar	aidrizovic at student.methodist dot edu
CT11.1	Inozemtseva	Iuliia	ii at georgiasouthern dot edu
UG1.1	Issac	Rahul	Rahul Isaac <rahul.isaac at furman dot edu>
UG7.5	Jackson	Micah	gj at georgiasouthern dot edu
UP1.8	Jator	Samuel	jators at apsu dot edu
UP1.5	Johnson	Lynnique	johnsonl at winthrop dot edu
PUB.1	Jones	Emily	Ejones at HawkesLearning dot com
CT9.1	Jones	Kasey	krjones at catamount.wcu dot edu
FT2.4	Klima	Vicky	klimavw at appstate dot edu
GS.1, VC1.1	Knisley	Jeff	knisleyj at etsu dot edu
CT8.1	Kunkel	Curtis	ckunkel at utm dot edu
UG3.1	Kuwonu	Dodji	dkuwonu at my.apsu dot edu
CT6.1	Lai	Wei-Kai	LaiW at mailbox.sc dot edu
UG5.3	Lawson	Ashley	amlawson at students.tntech dot edu
PS1.5	Larson	Philip	Philip.Larson at gvltec dot edu
UG2.3	Lewis	William	william.lewis2 at furman dot edu
CT4.2	Lovgren	Robin	robin.lovgren at belmont dot edu
VC1.3	Luke	Nicholas	luke at ncat dot edu
CT1.5	Lunsford	Matt	mlunsfor at uu dot edu
CT4.6	Lynch	Laura	llynch at ccga dot edu
UG1.3	Manley	Olivia	manleyo at winthrop dot edu
UG3.2	McAllister	Michael	mmcallister at my.apsu dot edu
UP1.6	McDuffie	Michelle	mjmcduffie at catamount.wcu dot edu
WC1.5	Miller	Andrew	andrew.miller at belmont dot edu
CT2.5	Moghraby	Amal	moghraby at ncat dot edu
UG2.6	Mohorn	Matt	mamohorn at davidson dot edu
CT7.4	Mohr	Darin	darin.mohr at gmail dot com
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UP1.12	Myers	Sarah	sarah.myers2 at vikings.berry dot edu
CT11.4	Ngwane	Fidele	ngwanef at mailbox.sc dot edu
BF1.6	Niedzialomski	Amanda	aniedzia at utm dot edu
BF1.7	Niedzialomski	Robert	rniedzia at utm dot edu
CT6.5	Norden	Jeffrey	jeff at math.tntech dot edu
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CT9.4	Peifer	David	dpeifer at unca dot edu
CT4.1	Pinter	Mike	mike.pinter at belmont dot edu
VC1.4	Powell	Jeffrey	jspowel at samford dot edu
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UP1.10	Quarles	Robby	Robby.Quarles at vikings.berry dot edu
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CT10.5	Shavo	Kara	klshavo at presby dot edu
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DS.2	Shifrin	Ted	shifrin at math.uga dot edu
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GS1.2	Smith	Ethan	smithea at appstate dot edu
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UG7.2	Stanfill	Dana	dandstan at ut.utm dot edu
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CT2.2	Stevens	Phillip	phillip_j_stevens at georgiasouthern dot edu
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UP1.2	Stubbs	Kimberly	kstubbs at unca dot edu
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UG1.4	Talkington	Anne	amt at duke dot edu
CT8.2	Tam	Tin-Yau	tamtiny at auburn dot edu
GS.2	Taylor	Ron	rtaylor at berry dot edu
CT5.3	Tran	Anh	at at georgiasouthern dot edu
UG5.2	Vashaw	Kent	vashawk at appstate dot edu
CT9.3	Vassilev	Tzvetalin	tzvetalv at nipissingu dot ca
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UG6.2	Weigandt	Christian	weigac at highpoint dot edu
CT4.4, BF1.4	Wescoatt	Benjamin	bmwescoatt at valdosta dot edu
CT2.4	Williford	Tabitha	tw at georgiasouthern dot edu
FT2.3	Wilson	Joanna	joanna.wilson at gpc dot edu
FT2.2	Wilstein	Zahava	zwilstein at berry dot edu
UG5.1	Winebarger	J. Tyrel	winebargerjt at appstate dot edu
CT7.3	Yang	Tiantian	ty at georgiasouthern dot edu
UG5.6	Yeomans	Katelyn	ky at georgiasouthern dot edu

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CT1.4	Yokley	Karen	kyokley at elon dot edu
Ct10.6	Yuan	Shuai	sy at georgiasouthern dot edu
CT2.3	Yust	Anne	ayust at bsc dot edu
UG6.6	Zayatz	Nick	zayatn at highpoint dot edu
CT2.1	Zhang	Yiran	yz at georgiasouthern dot edu
BF1.2	Zuhr	Erica	ezuhr at highpoint dot edu

# Join us next year at UNC Wilmington Wilmington, NC March 13-14, 2015!

Celebrate the 100 year anniversary of the Mathematical Association in the port city of **Wilmington**, located within minutes of the North Carolina beaches. The MAA Southeastern Section Spring 2015 Meeting will be hosted at the University of North Carolina **Wilmington**. UNCW is among the top-ranked public, master's-focused universities in the South.

For more information visit <http://www.uncw.edu/math/> and <http://www.wilmingtonandbeaches.com/>



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

*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)*

The Nominating Committee (Jim Gleason (AL), Patricia Humphrey (Chair, GA), Ellen Kirkman (NC), Antara Mukherjee (SC), Jeff Knisley (TN)) 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.

<u>Office:</u>	<u>Nominee</u>
Chair Elect:	Pat Humphrey, Georgia Southern University (GA)
Section Lecturer	Yuliya Babenko, Kennesaw State University (GA)
Secretary	Catherine Matos, Clayton State University (GA)
Treasurer:	Emily Hynds, Samford, University (AL)
Beginning Faculty Coordinator	Pending
NC State Director:	Patrick Bahls, UNC-Asheville
SC State Director:	James Solazzo, Coastal Carolina University
AL State Director:	Bernadette Mullins, Birmingham Southern College
GA State Director:	Karen Briggs, North Georgia
TN State Director:	Pending

All other officers continue see: <http://sections.maa.org/southeastern/maase/section/officers.php>