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SOUTHEASTERN SECTION

Ninety-fourth Annual Meeting

University of North Carolina Wilmington

Wilmington, NC

Thursday—Saturday, 12—14 March 2015

<http://sections.maa.org/southeastern/maase/conference2015/>

Thursday, 12 March

2:00 – 5:00 Project NExT-SE Activities, Cameron Hall, Room 210.

**6:30 – 9:30 Executive Committee Dinner and Meeting:
Madeline Suite.**

Student Treasure Hunt. Organizer: Julie Barnes and Treasure Hunt Planning Team.*

7:00 Check-in, Leutze Hall Lobby.

7:30 – 9:30 Activities in Leutze Hall.

Friday, 13 March

7:00 – 4:30 Registration, Warwick Center, Lobby.

8:00 – 11:30 Refreshments available, Cameron Hall, Lobby of Room 105.

8:00 – 11:30 Project NExT-SE Activities, Cameron Hall 210.

8:00 – 11:45 Math Jeopardy:

8:00 – 11:00 Preliminary Rounds, Cameron Hall, Rooms 132, 133, 212.

These rounds begin at 8:00, 9:00, and 10:00.

11:00 – 11:45 Semifinals, Cameron Hall, Rooms 132, 133, 212.

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).

**8:00 – 12:00 Study space available for Jeopardy Teams,
Cameron Hall 101.**

* See back of program for the names of the organizing team.

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

- ❖ WS.1 *Fifty Years of Geometric Programming*, Elmor Peterson, Cameron Hall 110.
- ❖ WS.2 *Teaching Numerical Analysis using the free software SAGE MATH*, Razvan Mezei, Cameron Hall 111.
- ❖ WS.3 *Graduate Student Career Development Workshop*, Sarah Frick, Cameron Hall 214.

Cameron Hall 105. Distinguished Lectures for Students.

Session Chair: Joe Rusinko, Winthrop University.

- ❖ DS.1* 9:00: *An introduction to the p-adic absolute Value*, Ellen Eischen, UNC Chapel Hill.
- ❖ DS.2* 10:00: *Knots, and how to use cloud computing to tabulate them*, Jason Parsley, Wake Forest University.

10:00 – 11:40 Concurrent Special and Contributed Sessions.**Leutze Hall 110. Contributed Session on Applications of Mathematics I.**

Time	Talk Number	Title	Presenter	Affiliation
10:00	CP2.1*	<i>Ideal free distributions in structured habitats</i>	Rychtar	UNCG
10:20	CP2.2	<i>Improved full-Newton-step interior-point methods for LO and LCP</i>	Mustafa Ozen	Georgia Southern University
10:40	CP2.3*	<i>Incorporating Cancer Stem Cells into a Hormone Therapy Model for Breast Cancer</i>	Zachary Abernathy	Winthrop University
11:00	CP2.4*	<i>Using Item Response Theory (IRT) Model to evaluate the Military traumatic brain injuries (TBI) and post-traumatic stress disorder (PTSD)</i>	Cuixian Chen	University of North Carolina Wilmington
Additional Authors: Yishi Wang and Antonio Puente, University of North Carolina Wilmington				
11:20	CP2.5*	<i>A lunatic trick for the moon's cycle</i>	Andrew Simoson	King University

Leutze Hall 111. Contributed Session on General Mathematical Topics.

Time	Talk Number	Title	Presenter	Affiliation
10:00	CP1.1*	<i>Mathematicians or Poets ... Yes.</i>	Josie Ryan	Lander University
Additional Author: Sean Barnette, Lander University				
10:20	CP1.2*	<i>Unrealistic Word Problems, and Other Stupid Math Jokes, or: Take my Dept Chair ... Please</i>	Leigh Atkinson	UNC Asheville
10:40	CP1.3*	<i>Finding Math in Ormskirk?</i>	Douglas Daniel	Presbyterian College
11:00	CP1.4*	<i>Probability and strategy in the context of games of chance and popular culture</i>	Stacey Ernstberger	LaGrange College

9:30 – 4:00 Exhibits, Warwick Center, Lobby.

11:45 – 12:30 Graduate School and Career Fair: Burney Center, Ballroom A.
Networking, professional development, career planning and free pizza for undergraduates.

11:30 – 12:30 Liaisons' Lunch. Student Union, Azalea Coast A.

12:45 – 1:45 GS.1 General Session I, Warwick Center Ballroom.

Sarah Raynor, MAA-SE Vice Chair for Programs, Presiding.

Welcome from UNC Wilmington:

Denise A. Battles, Provost and Vice Chancellor for Academic Affairs.

Invited address: *A glimpse into the world of Geometric Modeling,*

Yuliya Babenko, Kennesaw State University, 2014-2015

MAA SE Section Lecturer.

2:00 – 4:00 Refreshments available, Warwick Center, Lobby.

2:00 – 4:00 Refreshments available, Cameron Hall, Lobby of Room 105.

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

2:00–2:50 Publisher Presentation, Cameron Hall 101.

PUB.1 2:00 - 2:50: *Mastery Learning: Anytime, Anywhere*, Jennifer Kolb, Hawkes Learning Systems

Hawkes Learning believes in offering affordable and accessible materials. Their comprehensive learning system is built and based on the principle of mastery learning to ensure that each student develops a solid foundation and deep understanding of the curriculum. This competency-based approach adapts to each student's individual needs and has a proven track record of increasing student success. Learn about the new tablet-friendly platform that requires no installation or plug-ins. All attendees will be entered to win a \$50 Amazon.com Gift Card!

Cameron Hall 110. Special Session on Research in Mathematics

Education. Organizer: Benjamin Westcoatt, Valdosta State University.

Time	Talk Number	Title	Presenter	Affiliation
2:00	RME.1*	<i>A demonstration of a lesson in a randomization-based curriculum</i>	Tonya Adkins	Johnson & Wales University - Charlotte
2:20	RME.2*	<i>Inquiry-Based Learning on the Way to Calculus</i>	John C. Mayer	University of Alabama at Birmingham
Additional Author: William O. Bond, Alabama School of Fine Arts, Birmingham, AL				
2:40	RME.3*	<i>Measuring the Conceptual Teaching in Undergraduate Mathematics</i>	Jim Gleason	The University of Alabama
3:00	RME.4*	<i>The Reflexive Step: How Students Understand Verified Trigonometric Identities</i>	Ben Wescoatt	Valdosta State University

Cameron Hall 111. Special Session on Preparing Students to Teach Undergraduate Mathematics. Organizer: Jack Bookman, Duke University.

Time	Talk Number	Title	Presenter	Affiliation
2:00	PST.1*	<i>A Seminar on Preparing Graduate Students to Teach College Mathematics</i>	Sarah Schott	Duke University
2:20	PST.2*	<i>A framework for a graduate student teacher mentoring program</i>	Emily Braley	Duke University
2:40	PST.3*	<i>Teaching Preparation for Graduate Students at NCSU</i>	Brenda Burns-Williams	North Carolina State University
3:00	PST.4*	<i>Graduate Student Teaching Training at Clemson</i>	Meredith Burr	Clemson University
3:20	PST.5*	<i>A Community of Practice for Preparing Graduate Students to Teach Undergraduate Mathematics</i>	Jack Bookman	Duke University

Cameron Hall 132. Special Session on Distance and Digital Learning in Higher Education Mathematics. Organizer: Jon Ernstberger, LaGrange College.

Time	Talk Number	Title	Presenter	Affiliation
2:00	DDL.1*	<i>An Online, General Education Math/Finances/Spreadsheet Course v. 3.x</i>	Jon Ernstberger	LaGrange College
2:20	DDL.2	<i>Using Mathematica as the primary technology in the calculus sequence and in linear algebra</i>	Karen A. Yokley	Elon University
Additional Author: Crista Arangala				
2:40	DDL.3*	<i>Statistically Significant Attempts at Students' Understanding</i>	Rodica Cazacu	Georgia College
Additional Author: George Cazacu, Georgia College				

3:00	DDL.4*	<i>Reflections on the Implementation of the Mathematics Emporium as a Model for Teaching First Year Algebra and Trigonometry Courses</i>	Nicholas Luke	North Carolina A&T State University
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Leutze Hall 143. Special Session on Critiqued Presentations by Graduate Students. Organizer: Sarah Frick, Furman University

Time	Talk Number	Title	Presenter	Affiliation
2:00	GT.1*	<i>Applications of Holder's Inequality to a Fibonacci Problem</i>	Rachel Graves	The Citadel
2:20	GT.2	<i>Application of the Reduced Basis Method to the Forward Problem of Hyperspectral Diffuse Optical Tomography</i>	Rachel Grotheer	Clemson University
2:40	GT.3*	<i>Reverse mathematics and marriage problems</i>	Noah A. Hughes	Appalachian State University
3:00	GT.4*	<i>Ideal Factorizations</i>	Ashley Lawson	Tennessee Technological University

Cameron Hall 210. Contributed Session on Analysis and Differential Equations.

Time	Talk Number	Title	Presenter	Affiliation
2:00	CP3.1*	<i>Spherical Turkeys and Vibrating Balloons</i>	Russell Herman	UNCW
2:20	CP3.2*	<i>Convolution and Nonhomogeneous Equations</i>	Curtis Herink	Mercer University
2:40	CP3.3	<i>Stability and bifurcation results for positive solutions for classes of semilinear elliptic boundary value problems with nonlinear boundary conditions</i>	Jerome Goddard II	Auburn University Montgomery
Additional Author: R. Shivaji, University of North Carolina Greensboro				
3:00	CP3.4*	<i>Spacewalks and amusement rides: Illustrations of symmetry, geometric phase and holonomy</i>	Jeff Lawson	Western Carolina University
Additional Author: Matt Rave, Western Carolina University				

Cameron Hall 212. Contributed Session on Algebra.

Time	Talk Number	Title	Presenter	Affiliation
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2:00	CP4.1*	<i>Listening Closely to Abstract Algebra</i>	Vicky Klima	Appalachian State University
2:20	CP4.2*	<i>Veronese Embeddings of Quadrangles in Characteristic 2</i>	Ogul Arslan	Coastal Carolina University
Additional Author: Peter Sin, University of Florida				
2:40	CP4.3*	<i>Number of points completely determining an algebraic plane curve</i>	Jeremiah Bartz	Francis Marion University
3:00	CP4.4*	<i>Groups, Loops, and a Construction of Baer</i>	Lee Raney	University of North Alabama
3:20	CP4.5*	<i>Bernoulli, Euler, and Induction Formulas</i>	David Turner	Faulkner University

Cameron Hall 214. Contributed Session on Combinatorics I.

Time	Talk Number	Title	Presenter	Affiliation
2:00	CP5.1*	<i>On Colored Packing Densities</i>	Matthew R. Just	Georgia Southern University
2:20	CP5.2*	<i>Weighted trees and labeling</i>	Demet Yalman	Georgia Southern University
Additional Author: Mustafa Ozen, Georgia Southern University				
2:40	CP5.3*	<i>Enigma: An Analysis and Maplet Simulator</i>	Rick Klima	Appalachian State University
3:00	CP5.4*	<i>Categorical Combinatorics: Combining the Concrete and the Conceptual</i>	Dr. Tien Chih	Newberry College
3:20	CP5.5*	<i>What Must Go Down Will First Go Up: The Rises and Falls of Permutations</i>	William Griffiths	Kennesaw State University
Additional Author: Daniel Karasek, Kennesaw State University				

Leutze Hall 110. Contributed Session on Mathematics Education I.

Time	Talk Number	Title	Presenter	Affiliation
2:00	CP6.1*	<i>Using Cognitive Wrappers in a Remedial Mathematics Classroom</i>	Lisa Carnell	High Point University

2:20	CP6.2*	<i>Creating a More Inquiry Based Linear Algebra Class</i>	Laurie Zack	High Point University
2:40	CP6.3*	<i>Extended College Algebra: A Redesign of College Algebra</i>	James Matthew Dawson	Charleston Southern University
3:00	CP6.4*	<i>The iPad as a Teaching Tool</i>	Denise Dawson	Charleston Southern University
3:20	CP6.5*	<i>Enabling Success in a General Education Mathematics Class</i>	Gregory Goeckel	Presbyterian College
3:40	CP6.6*	<i>Creating a Meaningful Undergraduate Research Project</i>	Brandon Samples	Georgia College & State University

Leutze Hall 111. Undergraduate Papers Session A.

Time	Talk Number	Title	Presenter	Affiliation
2:00	UT1.1	<i>Sums of Fibonacci Numbers</i>	Nicole Fox	Georgia Southern University
2:20	UT1.2	<i>Counting Roots and Galois Groups</i>	Nicole Soltz	Elon University
Additional Author: Dr. Chad Awtrey - Mathematics Department at Elon University				
2:40	UT1.3	<i>The Path Between the Points: Interpolation and Splines</i>	Jeffrey Fisher	Lenoir-Rhyne University
3:00	UT1.4	<i>Augmented Happy Functions of Variable Power</i>	Marcus Harbol	The Citadel
Additional Author: Dr. Breeanne Swart				
3:20	UT1.5	<i>The Hilbert series of polynomials invariant under a circle action</i>	Emily Cowie	Rhodes College

Leutze Hall 134. Undergraduate Papers Session B.

Time	Talk Number	Title	Presenter	Affiliation
2:00	UT2.1	<i>A New Method for Musical Encryption</i>	Olivia Vanarthos	Appalachian State University

2:20	UT2.2	<i>How To Protect Gotham City Using Voronoi Diagrams</i>	Damien Wright	Coastal Carolina University
2:40	UT2.3	<i>Distance-Two Domination on Grid Graphs</i>	Dante Durrman	Furman University
Additional Author: Jerez Chen, Furman University				
3:00	UT2.4	<i>Derivative Sign Patterns for Infinitely Differentiable Functions in Three-Dimensions</i>	Madeline Edwards	Elon University
3:20	UT2.5	<i>Creating and Extending Fibonacci-Type Formulas by Counting Tiles</i>	Langston Williams	Lenoir-Rhyne University
3:40	UT2.6	<i>Matroids 4 Macaulay 2</i>	Ben May	High Point University

Leutze Hall 139. Undergraduate Papers Session C.

Time	Talk Number	Title	Presenter	Affiliation
2:00	UT3.1	<i>Various Properties of the Fibonacci Number Sequence</i>	Moriah Gibson	Georgia College and State University
2:20	UT3.2	<i>A Geometric Approach to Voting Theory</i>	Lee Fisher	Appalachian State University
Additional Author: Dr.Vicky Klima				
2:40	UT3.3	<i>4x4 to 2x2</i>	Sierra Doherty	Coastal Carolina University
3:00	UT3.4	<i>Disney in a Day: TDTSP applied to theme parks</i>	Danny Rivers	Furman University
Additional Author: Rahul Isaac, Furman University				
3:20	UT3.5	<i>Degree 6 Polynomials and Their Solvability by Radicals</i>	Peter Jakes	Elon University
Additional Author: Robin French, Elon University				
3:40	UT3.6	<i>The optimum turning angle after aircraft engine failure at a low altitude</i>	Xinyue Dai	Sewanee: the University of the South
Additional Author: Dr. Catherine Cavagnaro, Math and CS Department, Sewanee: the University of the South.				

3:00-4:00 Panel Discussion, Cameron Hall 133. Moderator: Jennifer Ellis
Royal, Mercer University. *How to Survive in Graduate School: Tips for success for students from all backgrounds.*

4:15 – 5:20 GS.2* General Session II, Warwick Center, Ballroom.

Martha Abell, Section Governor, presiding. Awards.

Invited addresses: *The Tropical Mathematics of Evolution*,
Joseph Rusinko, Winthrop University, 2014 MAA-SE Section
Beginning Teaching Award.

MAA 100/MAASE 93, Virginia Watson, Kennesaw State University,
MAA-SE Section Historian.

5:45 – 7:30 Conference Dinner, Burney Center, Ballroom C

Featuring *Whiskey Creek*: Americana, Bluegrass, Country and Folk music.

Saturday, 15 March

7:30 – 10:30 Registration, Warwick Center Lobby.

7:50 – 8:35 MAA Business Meeting, Cameron Hall 105.

8:00 – 1:00 Exhibits, Warwick Center Lobby.

8:45 – 9:45 GS.3* General Session III, Warwick Center Ballroom.

Pat Humphrey, MAA-SE Chair, presiding.

Invited Address: *The Lion and the Path*, Linda Braddy,
Deputy Executive Director, MAA

8:00 – 11:30 Refreshments available, Warwick Center Lobby.

9:30 – 11:30 Refreshments available, Cameron Hall, Lobby of Room 105.

10:00 – 11:30 Department Chairs' Meeting, Cameron Hall 212.

7:30 – 10:10 Undergraduate Poster setup, Warwick Center Lobby.

10:10 – 10:45 Undergraduate Poster judging, Warwick Center Lobby.

10:45 – 12:00 Undergraduate Poster Session, Warwick Center Lobby.
Organizer: Christopher Raridan, Clayton State University.

Undergraduate Poster Titles

Talk Number	Title of Poster	Presenter	Affiliation
UP.1	<i>Motif-based clustering of directed networks</i>	Thomas Reith	Davidson College
Additional Author: Laurie J. Heyer, Davidson College			
UP.2	<i>Derived Sequences</i>	Sarah Myers	Berry College
Additional Author: Adam Cronan-Berry College			
UP.3	<i>An Introduction to Phylogenetics and Tree Space</i>	Amber Holmes	LaGrange College
Additional Authors: Mercedes Coleman - Lamar University Cody FitzGerald - University of New Hampshire Emily Smith - Kenyon University			
UP.4	<i>Power-Conserving Selective-Range Multilateration for Wireless Sensor Network Localization</i>	Graham Gordon	Auburn University
UP.5	<i>The optimum turning angle after aircraft engine failure at a low altitude</i>	Xinyue Dai	Sewanee: the University of the South
Additional Author: Dr Catherine Cavagnaro, Math and Cs Department, Sewanee: the university of the south			
UP.6	<i>Optimization of Water Delivery for Optimal Fire Flow Capabilities</i>	Ben Eavenson	Emmanuel College
Additional Author: Dr. Bruce E. Scranton, Emmanuel College			
UP.7	<i>Combinatorics of Linked Systems of Quartet Trees</i>	Emili Moan	Winthrop University
Additional Author: Dr. Joseph Rusinko, Winthrop University			
UP.8	<i>A Hat Game</i>	Biraj Dahal	Coastal Carolina University
UP.9	<i>Lunar Rhythms and the 17 Year Cicada</i>	Shuler Hopkins	King University
UP.10	<i>Mathematical Modeling of Crypt-Villus Cell Population Dynamics in the Intestine</i>	Saif Alimohamed	Wofford College
UP.11	<i>Forms of Carmichael Numbers</i>	Alex Boutwell	Wofford College
UP.12	<i>Cliffhanger and the Price is Right</i>	Scott Scruggs	Francis Marion University
Additional Author: Jeremiah Bartz-Francis Marion University			

UP.13	<i>Oscillatory Integrals of the First Kind</i>	Jurgen Xhafaj	Newberry College
UP.14	<i>Questionnaire Refinement in Neuropsychological Assessments</i>	William Smith	UNCW
UP.15	<i>A Random Walk with the Dead</i>	Emily Deborde	Coastal Carolina University

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

Leutze Hall Room 139. Special Session on the History of Mathematics.

Organizer: AbdelNaser Al-Hasan, Newberry College.

Time	Talk Number	Title	Presenter	Affiliation
10:00	HOM.1*	<i>Anything Besides Zero?</i>	Paul L Baker	Catawba College
10:20	HOM.2*	<i>Finding Zero</i>	Dr. John Zerger	Catawba College
Additional Author: Dr. Paul Baker, faculty member at Catawba College				
10:40	HOM.3*	<i>Islamic Complex of Mathematics, Architecture and Art</i>	AbdelNaser Al-Hasan	Newberry College
11:00	HOM.4*	<i>Ibn Al-Haytham and Wilson's Theorem</i>	Nathaniel Collier	Newberry College

Cameron Hall Room 110. Contributed Session on Algebra and Geometry.

Time	Talk Number	Title	Presenter	Affiliation
11:40	CP7.6	<i>Rationally 4-periodic biquotients</i>	Jason DeVito	UTM
10:20	CP7.2*	<i>Introducing Galois theory in an introductory linear algebra course</i>	Chad Awtrey	Elon University

10:40	CP7.3*	<i>Limits of Golden Constructions</i>	Timothy E. Goldberg	Lenoir-Rhyne University
Additional Author: Leigha K. Myers, Lenoir-Rhyne University				
11:00	CP7.4*	<i>Completing the Card Game SET: To (points at) Infinity and Beyond</i>	Douglas Burkholder	Lenoir-Rhyne University
11:20	CP7.5*	<i>Origami, Math, and Engineering</i>	Alan Russell	Elon University

Cameron Hall Room 111. Contributed Session on Applications of Mathematics II.

Time	Talk Number	Title	Presenter	Affiliation
10:00	CP8.1*	<i>On the convergence and stability of Semi-Lagrangian methods for time-dependent partial differential equations</i>	Daniel Guo	University of North Carolina Wilmington
10:20	CP8.2*	<i>Electric Car Numbers</i>	Rudy Beharrysingh	UNC Asheville
10:40	CP8.3*	<i>Controlled Random Walks and Postural Stability Regions</i>	Erin McNelis	Western Carolina University
Additional Authors: Andrew Tanaka, Department of Mathematics & Computer Science, Western Carolina University, Martin Tanaka, Department of Engineering, Western Carolina University				
11:00	CP8.4*	<i>The Mathematics of Enemy-Protector Migration, Deportation and the U.S. Population, a classic Linear Algebra Problem</i>	Adam Graham-Squire	High Point University
11:20	CP8.5*		Lothar A. Dohse	UNC Asheville

Cameron Hall 132. Contributed Session on Calculus.

Time	Talk Number	Title	Presenter	Affiliation
10:00	CP9.1*	<i>Illustrating the Gibbs Phenomenon</i>	Iason Rusodimos	Georgia Perimeter College
Additional Author: Barrett Walls				
10:20	CP9.2*	<i>Some Average Calculus</i>	Chuck Groetsch	The Citadel

10:40	CP9.3*	<i>Attracting Students to Mathematical Biology: Three Simple Models Using Elementary Calculus</i>	Charles Rains	Anderson University
11:00	CP9.4*	<i>Roots of polynomials with Fibonacci number coefficients</i>	Ron Taylor	Berry College
Additional Authors: Eric McDowell, and Jill Cochran Berry College				
11:20	CP9.5*	<i>Teaching Calculus II with No-Cost-to-Students Course Materials</i>	Lake Ritter	Kennesaw State University
11:40	CP9.6*	<i>Analyzing graphs in calculus using limit windows and Wikki Stix representations</i>	Julie Barnes	Western Carolina University

Cameron Hall 133. Contributed Session on Combinatorics II.

Time	Talk Number	Title	Presenter	Affiliation
10:00	CP10.1*	<i>On the Sweepwidth of Orthogonal Polygons</i>	Tzvetalin S. Vassilev	Nipissing University
Additional Author: Dr. J. Mark Keil, University of Saskatchewan				
10:20	CP10.2*	<i>Ascending Subgraph Decompositions of Oriented Complete Balanced Bipartite Graphs</i>	Brian Wagner	The University of Tennessee at Martin
10:40	CP10.3*	<i>Generalized Ramsey Theorems for r-Uniform Hypergraphs</i>	Mark Budden	Western Carolina University
Additional Authors: Josh Hiller (University of Florida) Aaron Rapp (Western Carolina University)				
11:00	CP10.4*	<i>On the Hamiltonian Number of a Planar Graph</i>	Thomas M. Lewis	Furman University
11:20	CP10.5*	<i>The number of possible baseball line scores with a 6–3 final score</i>	Brian M. O'Connor	Tennessee Tech University

Cameron Hall 210. Contributed Session on Mathematics Education II.

Time	Talk Number	Title	Presenter	Affiliation
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10:00	CP11.1*	<i>Problems made to ignite undergraduate research</i>	George Cazacu	Georgia College
10:20	CP11.2*	<i>Preparing Undergraduates for Industrial Careers</i>	Kristen Abernathy	Winthrop University
10:40	CP11.3	<i>Building Capacity for a Research Rich Curriculum in Mathematics at Georgia College</i>	Darin Mohr	Georgia College
Additional Authors: Ryan Brown and Marcela Chiorescu, Georgia College				
11:00	CP11.4*	<i>Do Inquiry-Based Methods Work with Developmental Math?</i>	J. Donato Fortin	Johnson & Wales Univ. - Charlotte
11:20	CP11.5*	<i>Developing Qualified Teaching Assistants for the Math Emporium</i>	Kathy Cousins-Cooper	North Carolina A&T State University
Additional Author: Katrina Staley, North Carolina A&T State University				
11:40	CP11.6*	<i>How to Create User-Friendly, Flowing Syntax for the Mathematics You Teach and Study</i>	Damon Scott	Francis Marion University

Cameron Hall 214. Contributed Session on Number Theory.

Time	Talk Number	Title	Presenter	Affiliation
10:00	CP12.1*	<i>Another Approach to the Truncated Pentagonal Theorem</i>	Louis W. Kolitsch	The University of Tennessee at Martin
10:20	CP12.2*	<i>Augmented Happy Functions</i>	Breeanne Baker Swart	The Citadel
Additional Authors: Kristin Beck – Saint Mary's College of California Susan Crook – Loras College Christina Eubanks-Turner – Loyola Marymount University H. G. Grundman – Bryn Mawr College May Mei – Denison University Laurie Zack – High Point University				
10:40	CP12.3*	<i>Card Shuffles, Symmetric Groups, and Landau's Function</i>	Brian Beasley	Presbyterian College
11:00	CP12.4*	<i>GCD Properties of the Hosoya Polynomial Triangle.</i>	Antara Mukherjee	The Citadel
Additional Authors: Rigoberto Florez (The Citadel), Robinson Higueta (Universidad de Antioquia, Medellin, Colombia)				

Leutze Hall 110. Undergraduate Papers Session D.

Time	Talk Number	Title	Presenter	Affiliation
10:00	UT4.1	<i>The classification of $SU(2)^2$ biquotients of compact, simply-connected rank 3 Lie groups.</i>	Robert DeYeso III	University of Tennessee at Martin
Additional Author: Dr. Jason DeVito				
10:20	UT4.2	<i>Drawing numbers and listening to patterns</i>	Zo (Loren) Haynes	Georgia Southern University
10:40	UT4.3	<i>A new algorithm for Galois groups of quintic polynomials</i>	Robin French	Elon University
Additional Author: Dr. Chad Awtrey, Assistant Professor of Mathematics, Elon University				
11:00	UT4.4	<i>Constructions in Design Theory</i>	Leah Foster	LaGrange College
11:20	UT4.5	<i>A closed form for the sums of squares of consecutive Lucas numbers</i>	Kaige Lindberg	The Citadel
11:40	UT4.6	<i>Extending J. Chernik's Construction of Carmichael Numbers</i>	Tyler A. Woolley	Wofford

Leutze Hall 111. Undergraduate Papers Session E.

Time	Talk Number	Title	Presenter	Affiliation
10:00	UT5.1	<i>Monochromatic-bichromatic Ramsey numbers for some small cycles</i>	Michael Ngo	Clayton State University
Additional Author: Elliot Krop				
10:20	UT5.2	<i>Snakes on the Plane</i>	Jerez Chen	Furman University
Additional Author: Dante Durrman, Furman University				
10:40	UT5.3	<i>Graph coloring, art gallery, and applications</i>	Yunwei Zhang	Georgia Southern University
11:00	UT5.4	<i>Using Wavelets for Image Noise Removal</i>	Maria Peter	Coastal Carolina University
Additional Author: Victor Harris				
11:20	UT5.5	<i>Machine Learning Techniques for Detecting Humans in Images</i>	Troy Kling	UNCW
Additional Author: Dr. Yishi Wang, UNCW				

Leutze Hall 134. Undergraduate Papers Session F.

Time	Talk Number	Title	Presenter	Affiliation
10:00	UT6.1	<i>Introduction to the Wave Equation: Derivations and Illustrations</i>	Amber Holmes	LaGrange College
10:20	UT6.2	<i>Ecological models with U-shaped density dependent dispersal</i>	Jordan Price	Auburn University Montgomery
Additional Author: Jordan Berry, Auburn University Montgomery				
10:40	UT6.3	<i>Linear Sums of Binomial Coefficients</i>	Soowhan Yoon	Mercer University
11:00	UT6.4	<i>Modeling of financial flow over time through recursive network construction</i>	Kayla Hagerty	Georgia Southern University
Additional Author: Jing Sun, Georgia Southern University				
11:20	UT6.5	<i>The Cobb-Douglas Production Function: Analysis and Application of the Model</i>	John Saeger	Coastal Carolina University
11:40	UT6.6	<i>Tracking Robots using Elementary Tactics from Computer Vision</i>	William Lewis	Furman University
Additional Author: Chase Fiedler, Furman University				

**12:15 – 1:15 Math Jeopardy Final Round: Warwick Center, Ballroom
Announcement of Student Prize Winners.**

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The Mathematics Department in the College of Arts and Sciences at the University of Alabama at Birmingham will host the 2016 meeting of the Southeastern Section of the Mathematical Association of America, March 25-26, 2016 during the Spring Break for UAB. Headquarters for the meeting will be Heritage Hall (pictured) at the corner of University Boulevard and 14th Street South in Birmingham, one of UAB's newest classroom buildings. Blocks of rooms will be reserved at hotels within walking distance. Most meeting rooms will be in Heritage Hall or within one block. There is ample parking in a lot and a deck within one block of HHB. UAB is easily accessible via Interstates 65, 20, and 59. Come one, come all!



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