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MACONBIBB

WHEREAS, the Southeastern Section was founded in 1922 under the auspices of the Mathematical Association of America by mathematicians representing the leading universities and colleges in the southeast; and

WHEREAS, this section has grown over the past 95 years to become a preeminent organization for individuals in Alabama, Georgia, North Carolina, South Carolina, and Tennessee interested in the study of mathematics at the undergraduate level; and

WHEREAS, the section communicates with the national Mathematical Association of America organization in order to promote its agenda; and

WHEREAS, the section promotes the development of sound pedagogical techniques and the advancement of scholarship in the mathematical sciences; and

WHEREAS, the section engages undergraduate and graduate students with activities and opportunities that will encourage the pursuit of a career in the mathematical sciences; and

WHEREAS, the section provides professional development opportunities for faculty members in the southeast; and

WHEREAS, the section's 2017 annual meeting will be held March 10 and 11 on the campus of Mercer University in Macon, GA;

NOW, THEREFORE, I Robert A.B. Reichert, do hereby proclaim Friday March 10, 2017 as:

“Southeastern Section of the Mathematical Association of America Day”

in the City of Macon and all citizens are encouraged to recognize this organization for serving the needs of the mathematical community throughout the southeast.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Seal of the City to be affixed this 10th day of March 2017.

Robert A.B. Reichert
Mayor, Macon-Bibb



Enjoying Macon

Trolley Rides: The NewTown trolley will be offering a free trolley service from the campus and campus hotels to downtown on Friday night. The trolley will make a continuous circuit from TownePlace Suites to Hilton Garden Inn to Willingham Auditorium to Macon’s downtown area. The trolley will run from 5:30 p.m. to 11 p.m. on Friday night. Come enjoy the downtown Macon restaurants and entertainment!

Show Your Badge: The MAA-SE Section Meeting is a participant in the “Show Your Badge” program. Show your conference badge at any of the following participants to receive a discount.

Mercer Village Restaurants

Francar’s Buffalo Wings, 1365 Linden Avenue	Free non-alcoholic beverage with entrée purchase
Margarita’s Mexican Grill, 1602 Montpelier Avenue	15% off entire order

Downtown Restaurants

Bearfoot Tavern, 468 2 nd Street	Free non-alcoholic beverage with entrée purchase
Between the Bread/ Michaels, 588 Mulberry St.	Free dessert with purchase of entrée
Downtown Grill, 562 Mulberry St. Lane	Free non-alcoholic beverage with entrée purchase
Greek Corner Deli, 587 Cherry St.	Free fountain drink with purchase of sub or gyro and a bag of chips
H&H Soul Food Restaurant, 807 Forsyth St. (open for breakfast and lunch only)	Complimentary beverage with purchase of breakfast and lunch entree
Harp and Bowl, 520 Mulberry St.	5% off purchase
Just Tap’d, 488 1 st Street	50% off 1 st Summer Honey Lager
Roly Poly, 624 New Street	Free drink, chips, or cookie with meal or 15% off meal
Satterfield’s, 120 New Street (open lunch only)	Free dessert with meal purchase
Subway, 883 Pine Street	Buy any foot long sub; get free chips and 21 oz drink
Tic Toc Room, 408 Martin Luther King Blvd	Free non-alcoholic beverage with entrée

More restaurants available at https://res-1.cloudinary.com/simpleview/image/upload/v1/clients/macon/2017_Show_Your_Badge_revised_ef4444ab-ccce-40de-81e9-c765f9289dd7.pdf.



SOUTHEASTERN SECTION

Ninety-sixth Annual Meeting

Mercer University

Macon, Georgia

Thursday—Saturday, March 9-11, 2017

http://sections.maa.org/southeastern/?2017_Conference

Building Information: Throughout this program the following abbreviations are used:

CSC Connell Student Center

KNT Knight Hall

WHM Willingham Auditorium

To connect to the Mercer Network, connect to MU-Guest, open a web browser and follow the prompts. See http://it.mercer.edu/Faculty/internet_network/guest.htm for more information.

*Indicates a talk should be accessible to an undergraduate student.

Thursday, March 9

9:00 - 5:00 *Adjacent, a display of Mathematical Art*, Frances Sewell Plunkett Gallery, Hardman Hall

1:00 – 6:00 **Registration, CSC Lobby**

2:00 – 5:00 **Project NExT-SE Activities, KNT 203**

6:30 – 9:30 **Executive Committee Dinner and Meeting:**
Woodruff House, 988 Bond Street, Macon

Student Treasure Hunt. Organizer: Julie Barnes and Treasure Hunt Planning Team. (See back of program for the names of the planning team members.)

7:00 **Check-in, CSC Lobby**

7:30 – 9:30 **Student Treasure Hunt Initial Meeting in CSC Conference Room 3.**
Late arrivals should go to KNT 203

Friday, March 10

7:30 – 4:30 **Registration, CSC Lobby.**

9:00-5:00 *Adjacent, a display of Mathematical Art*, Frances Sewell Plunkett Gallery, Hardman Hall

8:00 – 11:30 **Project NExT-SE Activities, KNT 203**

8:00 – 11:45 **Math Jeopardy:**

8:00 – 11:00 Preliminary Rounds, KNT 304, 307, 308

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

11:00 – 11:45 Semifinals, KNT 304, 307, 308

9:00-11:30 *WS.1 Workshop for Directors of Mathematics Tournaments, KNT 210*
Chuck Garner (Rockdale Magnet School for Science and Technology),

10:00-11:00 *WS. 2 Speed Interviewing Marathon for Students, KNT 206*
Jenna Carpenter (Campbell University)

9:00-11:00 Distinguished Lectures for Students, KNT 101

Session Chair: Brian Beasley, Presbyterian College

DS.1* 9:00: *Undergraduate Research in Galois Theory*, Chad Awtrey, Elon University

DS.2* 10:00: *The Game of Hex and Its Surprising Implications*, Stephen Robinson, Wake Forest University

9:30 – 4:00 **Exhibits, CSC Lobby**

11:00—11:50 Publisher Presentation, KNT 206

PUB.1 11:00 - 11:50: *Web Accessibility, New Courses, and Custom Tools*, Emily Judy, Hawkes Learning Systems

Hawkes Learning will present new corequisite courses aligned with STEM and non-STEM pathways, the beta release of Calculus software, an overview of Web Accessibility basics, and new features for course customization, including the latest innovation in question-authoring technologies: Question Builder. Win a \$25 Amazon gift card!

11:45 – 12:30 **Graduate School and Career Fair: WHM 103**

Networking, professional development, career planning and free pizza for undergraduates.

12:45 – 1:45 GS.1* General Session I, Willingham Auditorium.

Hope McIlwain, MAA-SE Vice Chair for Programs, Presiding.

Welcome from Mercer University: William Underwood, President, Mercer University

Invited address:

“A Traipse through the Mathematical Art Gallery”

Carolyn Yackel, Mercer University,
2016-2017 MAA SE Section Lecturers

2:00—2:50 Publisher Presentation, KNT 212

PUB.2 2:00 - 2:50: *My MathLab*, Seanna Landry, Pearson

Pearson’s MyMathLab continues to evolve in response to trends in today’s math education. In this session, we’re going to focus on features and innovations designed to support students taking Calculus and Differential Equations. Come see how MyMathLab solutions promote Just-In-Time help, Personalized Learning, Conceptual Understanding & In-Class Engagement.

3:00—3:50 Publisher Presentation, KNT 212

PUB.3 3:00 - 3:50: *Refresh Algebra and Trigonometry Skills and Improve Conceptual Understanding Through Visualization with WebAssign for Calculus*, Glenda Blake, Shelita Brown, and Ballard Ward, Cengage

Although the concepts of Calculus have not changed since Newton, the technology available to assist in their teaching continuously evolves. View the unique tools that will help students refresh algebra and trigonometry skills, before interactive assets aid the learning of the critical concepts of the dynamic Calculus course.

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

KNT 303. *Special Session on Mathematics and Art.* Organizer: Carolyn Yackel (Mercer University)

Time	Talk Number	Title	Presenter	Affiliation
2:00	SS1.1*	Hidden Beauty in Penrose Tiling: Weavings, Lace & Skates	Doug Burkholder	Lenoir-Rhyne University
2:20	SS1.2*	Flowers, Kaleidoscopes, and Coloring Book Images Hiding in Complex Rational Function Projections	Julie Barnes	Western Carolina
Additional Author: Beth Schaubroeck, United States Air Force Academy				
2:40	SS1.3*	Art with Truchet Tiles	Carolyn Yackel	Mercer University
3:00	SS1.4*	Using Embroidery to Explore Mapping the Sphere to the Plane	Shemsi Alhaddad	University of South Carolina-Lancaster
3:20	SS1.5*	Origami in Teacher Education	Alan Russell	Elon University
3:40	SS1.6*	Teaching Algorithms using the Josephus Problem and Music	Shaun Ault	Valdosta State University
Additional Author: Matthew Cliatt, Valdosta State University				

KNT 304. *Special Session on Supervising Undergraduate Research Projects.* Organizer: Lee Raney (University of North Alabama)

Time	Talk Number	Title	Presenter	Affiliation
2:00	SS2.1*	Undergraduate research in the first year as a faculty member	Frank Patane	Samford University
2:20	SS2.2*	Solving open problems with students as a first research experience	Antara Mukherjee	The Citadel
Additional Author: Rigoberto Florez, The Citadel				
2:40	SS2.3*	Strategies for Identifying Good Undergraduate Research Problems	Mark Budden	Western Carolina University
2:40	SS2.4*	My PIC Math Experience: Finding Problems, Course Design, and Lessons Learned	Zach Abernathy	Winthrop University

KNT 307 *Special Session on Presentations by Beginning Faculty.* Organizer, Ron Taylor (Berry College).

Time	Talk Number	Title	Presenter	Affiliation
2:00	SS3.1*	The Devastation of Hemlock Trees in the Great Smoky Mountains	Jillian Stupiansky	University of North Alabama
2:20	SS3.2	A Novice Attempt at IBL Real Analysis	Jessica Williams	Converse College
2:40	SS3.3*	Polytopes, Diagrams, and g -Vectors: Oh, My!	Sarah A. Nelson	Lenior-Rhyne University
3:00	SS4.4*	Bounding the k -Domination Number	John Asplund	Dalton State College
3:20	SS3.5*	On even k -uniform hypergraphs and a related extremal problem	Arran Hamm	Winthrop University
3:40	SS3.6*	Fixing Congressional Dysfunction with Polynomials	Axel Brandt	Davidson College

KNT 308. *Contributed Session on Algebra, Number Theory, and Topology.* Session Chair: Jing Wang (Christian Brothers University)

Time	Talk Number	Title	Presenter	Affiliation
2:00	CP1.1*	Finite Ideal Factorization Domains	Anna Litchford	Tennessee Tech University
Additional Author: Andrew J. Hetzel, Tennessee Tech University				
2:20	CP1.2*	Small Hausdorff Dimension in Finitely Constrained Groups	Andrew Penland	Western Carolina University
2:40	CP1.3	Canonical bases for subspaces of a vector space and applications	Uladzimir Shtukar	North Carolina Central University
3:00	CP1.4*	The Pathways of Colored Balls Lighting the Queen's Walk	William G. Griffiths IV	Kennesaw State University
Additional Author: Steven Edwards, Kennesaw State University				
3:20	CP1.5*	Diophantine Eclipses	Andrew Simoson	King University
3:40	CP1.6*	Linear Inequalities: We Shouldn't Avoid Them	Jeffery Clark	Elon University

KNT 203. *Contributed Session on Analysis.* Session Chair: Yuanting Lu (Mercer University)

Time	Talk Number	Title	Presenter	Affiliation
2:00	CP2.1	On a Generalization of Wolff's Ideal Theorem	Andrew Incognito	Coastal Carolina University
2:20	CP2.2*	Randomized Algorithm for estimating largest p elements in implicitly defined matrices	Yilian Zhang	University of South Carolina Aiken
2:40	CP2.3*	A mathematical model of Mersenne's water jet experiment	Charles Groetsch	The Citadel
3:00	CP2.4*	Fractional Differential Equations and Monotone Iterative Techniques	Diego Ramirez	Savannah State University

KNT 206. *Contributed Session on Applications and Optimization.* Session Chair: David Vogel (Middle Georgia State University)

Time	Talk Number	Title	Presenter	Affiliation
2:00	CP3.1*	Application of neural networks to Classification of handwritten Digits and short term stock returns	Tracy Chen	University of North Carolina at Wilmington
Additional Author: Taylor Harbold, University of North Carolina at Wilmington				
2:20	CP3.2*	Three Algorithms for Numeric Series Function Approximation	Gregory Goeckel	Presbyterian College
2:40	CP3.3*	Hybrid Chebyshev Polynomial Scheme for the Numerical Solution of Partial Differential Equations	Balaram Ghimire	Alabama State University
Additional Author: C.S. Chen, University of Southern Mississippi				
3:00	CP3.4*	A Survey of Recent Work on the Collapse of the Tacoma Narrows Bridge	George Moss	Union University
3:20	CP3.5*	Modeling the Role of Education in Ebola Virus Disease Outbreaks in Sudan	Christina Edholm	University of Tennessee at Knoxville

Additional Authors: Levy, B. Fitchburg State University, Gaoue, O. University of Hawaii, Kaondera-Shava, R. University of Botswana, Kgosimore, M. Botswana University of Agriculture and Natural Resources, Lenhart, S. University of Tennessee, Lephodisa, B. University of Botswana, Lungu, E. Botswana International University of Science and Technology, Marijani, T. University of Dar es salaam, Nyabadza, F. University of Stellenbosch				
3:40	CP3.6*	Combinatorics of n -Colored Cyclic Compositions	Meghann Moriah Gibbs	Georgia Southern University
Additional Author: Hua Wang, Georgia Southern University				

KNT 207. *Contributed Session on Classroom Teaching and Pedagogy, Part 1.* Session Chair: Jeff Pullen (Mercer University)

Time	Talk Number	Title	Presenter	Affiliation
2:00	CP4.1*	The Initial Impact of No-Cost Materials Engagement and Achievement in College Algebra	Samuel Cartwright	Fort Valley State University
Additional Author: Josephine Davis, Bhavana Burell, Fort Valley State University				
2:20	CP4.2*	Strengthening Real World Skills with Math Courses	Erin Cooke Church	Perimeter College at Georgia State University
2:40	CP4.3*	A GUEST course in Statistics	Lindsey Fox	University of Tennessee
3:00	CP4.4*	Twenty Students, Four Faculty, and the University's Squirrel Population: An Undergraduate Research Project for Non-Calculus Ready Science Majors	Jeff Pullen	Mercer University
Additional Authors: Chamaree de Silva, Jarred Jenkins, and Katherine Northcutt, Mercer University				
3:20	CP4.5*	An Incentivized Early Remediation Program in Calculus I: To Require Office Hours or Not?	Lake Ritter	Kennesaw State University
Additional Author: Jennifer Vandebussche, Kennesaw State University				
3:40	CP4.6*	Writing and Reading the AP Calculus Exam	Stephen Davis	Davidson College

KNT 212. *Undergraduate Papers Session A.* Session Chair: Jeff Denny (Mercer University)

Time	Talk Number	Title	Presenter	Affiliation
2:00	UT1.1	Modeling Emergency Room Arrivals Using Non-Homogeneous Poisson Processes	Rachel Wagner	Coastal Carolina University
Additional Author: Lindsey Bell, Coastal Carolina University				
2:20	UT1.2	Artificial Neural Networks for Stochastic Time Series Regression	Andrew Linzie	Gardner-Webb University
Additional Author: Mirosław Mystkowski, Gardner-Webb University				
2:40	UT1.3	Random Unit Bar Visibility and Unit Bar Visibility Graphs	Jiarui Chu	Davidson College
Additional Author: Laurie Heyer, Davidson College				
3:00	UT1.4	Creating a Topological Adventure with Dungeons and Dragons	Tucker Dowell	Belmont University
3:20	UT1.5	Super-SET	Tucker Dowell	Belmont University
Additional Author: Allison Hardee, Belmont University				
3:40	UT1.6	Plugging in to the $3n+1$ Problem	Kailee Gerzema	Belmont University
Additional Author: Tucker Dowell, Belmont University				

KNT 100. *Undergraduate Papers Session B.* Session Chair: Kedrick Hartfield (Mercer University)

Time	Talk Number	Title	Presenter	Affiliation
2:00	UT2.1	Modeling a Ballistic Shot to the Moon	Leo Degon	Savannah State University
2:20	UT2.2	Mathematical Modeling of Prevention Methods of Dengue Fever	Michelle Rave	Elon University
2:40	UT2.3	Using Mathematical Models to Rank the Members of Criminal Networks	Lucas Chirino	High Point University
Additional Author: Laurie Zack, High Point University				
3:00	UT2.4	An Area Based Fan Beam Projection Model	Richard Steele	Georgia Southern University
Additional Author: Jiehua Zhu, Georgia Southern University				
3:20	UT2.5	The Automatic Construction of Fractals of Arbitrary Dimension	Nathan Pool	Elon University
Additional Author: Jeffery Clark, Elon University				

3:40	UT2.6	Conway's Cats	Emily Pazdera	Lenoir-Rhyne University
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KNT 101. Undergraduate Papers Session C. Session Chair: Jennifer Aust (Martin Methodist College)

Time	Talk Number	Title	Presenter	Affiliation
2:00	UT3.1	Global Dynamics of a Colorectal Cancer Treatment Model with Cancer Stem Cells	Kelsey Brown	High Point University
2:20	UT3.2	Mathematically Modeling Subdiffusive Protein Movement in Cells	Stephanie Waldrep	Birmingham-Southern University
Additional Author: Amer Babi, Birmingham-Southern University				
2:40	UT3.3	Variable Step Implementation of an Extended Block Method in Solving Stiff Differential Equations	Kindyl King	Austin Peay State University
Additional Authors: Samuel Jator and Katherine Kreuser, Austin Peay State University				
3:00	UT3.4	Space Filling Curves	Shaquille Dixon	Coastal Carolina University
3:20	UT3.5	A Mathematical Analysis on the Transmission Dynamics of Neisseria Gonorrhoeae	Christine Craib	University of North Carolina at Wilimington

KNT 104. Undergraduate Papers Session D. Session Chair: Ben Westcoatt (Valdosta State University)

Time	Talk Number	Title	Presenter	Affiliation
2:00	UT4.1	Exploring Patterns in the Hailstone $(3n+1)$ Problem for Predictive Purposes	Nathan Nickelson	Austin Peay State University
2:20	UT4.2	Higher Degree Polynomials and Their Solvability by Radicals	Peter Jakes	Elon University
Additional Author: Chad Awtrey, Elon University				
2:40	UT4.3	Abstract Withdrawn	Abstract Withdrawn	Abstract Withdrawn
3:00	UT4.4	The Collatz Conjecture and Some Cousins	Chelsea Noel	Lenoir Rhyne University
3:20	UT4.5	Constructing irreducible polynomials over prime fields using complex multiplication	Tyler Melton	Armstrong State University
Additional Author: Duc Hyunh, Armstrong State University				
3:40	UT4.6	The Classification of Timbres via Overtone Sequences	Zhian Mi	Birmingham-Southern College

4:15 – 5:20 **GS2.1* General Session II , WHM Auditorium.**
Jeff Clark, MAA-SE Section Chair-Elect, presiding. Awards.

Invited address:

"Mathematical Celebrity Look-Alikes",
Tim Chartier, Davidson College
MAA Section Visitor

Saturday, March 11

7:30 – 10:30 **Registration, CSC Lobby.**

7:50 – 8:35 **MAA-SE Business Meeting, KNT 203**

9:00-5:00 ***Adjacent*, a display of Mathematical Art, Frances Sewell Plunkett Gallery,
Hardman Hall**

8:00 – 1:00 **Exhibits, CSC Lobby**

8:45 – 9:45 **GS3.1* General Session III , Willingham Auditorium.**
Charlotte Knotts-Zides, Section Governor MAA-SE, presiding.

Invited Address:

"Gems of Ramanujan and their Lasting Impact on Mathematics"
Ken Ono, Emory University
2017-2018 Polya Lecturer

10:00 – 11:30 **Department Chairs' Meeting, WHM 103**

7:30 – 10:10 **Undergraduate Poster setup, CSC Conference Room 3**

10:10 – 10:45 **Undergraduate Poster judging, CSC Conference Room 3**

10:45 – 12:00 **Undergraduate Poster Session, CSC Conference Room 3**
Organizer: Antara Mukherjee, The Citadel.

Undergraduate Poster Titles

Talk Number	Title of Poster	Presenter	Affiliation
UP1.1	Dominance Domains and the 17-Year Cicada	Sam Barker	King College
UP1.2	Sabermetrics and its historical impact in sports	Tyler Barker	Western Carolina University
UP1.3	An Examination of the RSA Cryptosystem	Brooke Beeksma	Converse College
UP1.4	Fibonacci and Finance: Finding Universal Solutions to Fibonacci's 3 problems from Liber Abaci	Amy Burton	Erskine College
UP1.5	Image Processing for Classification and Regression	Danielle Chuang and Jacob Oullette	University of North Carolina at Wilimington
UP1.6	The Fractional Calculus	Laura Coker and Anna Shelton	University of Tennessee at Martin
UP1.7	Prediction of international HIV Populations using the GDP based weights	Hermine Djimoundi	Savannah State University
UP1.8	Games for Generalizing Finite Groups with Cross Product of \mathbf{Z}_2 and Finite Abelian Groups	Ashly Earley	Converse College
UP1.9	Optimal Scheduling of an Educational Therapist's Sessions	Rickie Grooms	Emmanuel College
Additional Author: Bruce Scranton, Emmanuel College			
UP1.10	Essentially Unique Representations of Ternary Quadratic Forms	Raymond Herbert	Samford University
UP1.11	Optimizing Aircraft Boarding Strategies	Qixuan Hou	Georgia Institute of Technology
UP1.12	Medieval Europe's Next Top Model: Using NetLogo to Model the Black Death	Megan Lenaghan	Converse College
UP1.13	Infinite Donuts: Integrating in the p-adics over regions with many holes.	Caleb Pierce and Aidan Quinlan	Wofford College
UP1.14	Golf: Rapid, Optimal Driver Fitting for a Player	Andrew Smith	Emmanuel College

Additional Author: Bruce Scrantion, Emmanuel College			
UP1.15	Can Cellular Automata Improve Data Security?	Bailey Stillman	Western Carolina University
Additional Author: Andrew Penland, Western Carolina University			
UP1.16	Measles and the Importance of Vaccination	Abigail Sweet	Converse College
UP1.17	Abstract Withdrawn	Abstract Withdrawn	
UP1.18	Efficacy of Epidemic Surveillance systems in Response to Water-Based Bioterrorism	Caleb Andrew Williams	Rhodes College
Additional Author: Erin Bodine, Rhodes College			
UP1.19	Exploring Symmetries with Complex-Valued Functions and Group Theory	Kelsey Windham	Georgia College

10:00—10:50 Panel Presentation, WHM 103

PAN.1 10:00 - 10:50: *Exploring Non-Academic Careers in Mathematics*

Organizers: Caroline Maher-Boulis (Lee University) and David Stone (Georgia Southern University)

Sponsored by: BIG SIGMAA and the MAA Committee on BIG

Panelists: Eleazer (Lee) Hunt, Ph.D., Director of Information Services, Greensboro Police Department
Nicole Fox Stewart, Analytics Specialist, Farm Bureau Insurance

Abstract: Often mathematics students are not aware of career options in business, industry and government (BIG) that are available for them after graduation. Many industries, as well, do not know how a mathematician can help their company. This panel session will feature mathematicians working in industry and government. The panelists will discuss what the mathematicians do in their respective positions, internship opportunities, what employers look for in a candidate and how students should best prepare themselves for “real world” positions. The session will be helpful to students as well as to faculty who want to guide students toward internships or careers.

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

KNT 303. *Special Session on the Research on Teaching and Learning in Collegiate Mathematics.* Organizer, Kedar Nepal (Mercer University)

Time	Talk Number	Title	Presenter	Affiliation
10:00	SS4.1*	Drawings of People “Doing Math”: What We Can Learn	Ben Westcoatt	Valdosta State University
10:20	SS4.2*	Intuitive sense of mechanisms or misconceptions: investigating undergraduate students' comprehension of variability	Oguz Koklu	University of Georgia
10:40	SS4.3*	Who Can Better Predict of Their Own Performance? A Preliminary Report.	Kedar Nepal	Mercer University
Additional Author: Dr. Kailash Ghimire (Georgia Southwestern State University), Dr. Ramjee Sharma (University of North Georgia-Gainesville), Dr. Manoj Thapa (Georgia Southwestern State University)				
11:00	SS4.4*	Growth Mindset Interventions	Laurie Zack	High Point University
11:20	SS4.5*	Using Kahoot! in your Classroom	Jim Beuerle	Elon University
11:40	SS4.6*	Initial Findings about Graduate Teaching Assistants' Training Needs to Foster Active Learning in Statistics	Kristen E. Roland	University of Georgia
Additional Author: Jennifer J. Kaplan				

KNT 304. *Special Session on Supervising Undergraduate Research Projects, Part 2.* Organizer: Lee Raney (University of North Alabama)

Time	Talk Number	Title	Presenter	Affiliation
10:00	SS5.1*	Cellular Automata and Pseudorandom Number Generators	Andrew Penland	Western Carolina University
10:20	SS5.2*	Introducing Fun Research Through a One-credit Course	Adam Graham-Squires	High Point University
Additional Author: Laurie Zack, High Point University				
10:40	SS5.3*	An overview of metric distances between Cayley tables of finite groups	Jesse Prince-Lubawy	University of North Alabama

KNT 307. *Contributed Session on Classroom Teaching and Pedagogy, Part 2.* Session Chair: Jillian Stupiansky (University of North Alabama)

Time	Talk Number	Title	Presenter	Affiliation
10:00	CP5.1*	Informal Writing in the Calculus I Classroom	Danielle Burton	University of Tennessee
10:20	CP5.2*	Exploring Virtual Reality in a Calculus III Class	Erin McNelis	Western Carolina University
10:40	CP5.3*	Drawing Phase Portraits on the Computer Using Differential Equations	Barrett Walls	Perimeter College at Georgia State University
Additional Author: Iason Rusodimos, Perimeter College at Georgia State University				
11:00	CP5.4*	A Comparative Analysis of Turkish Textbooks through Shape Thinking Perspective	Halil I. Tasova	University of Georgia
Additional Author: Kevin C. Moore, University of Georgia				

KNT 308 *Contributed Session on Graph Theory and Combinatorics.* Session Chair: Josh Hallam (Wake Forest University)

Time	Talk Number	Title	Presenter	Affiliation
10:00	CP6.1*	Enumerating Cycles in the graph of overlapping permutations	Brad Fox	Austin Peay State University
Additional Author: John Asplund, Dalton State College				
11:00	CP6.2*	Ascending Subgraph Decompositions of Tournaments Minus an (Almost) Perfect Matching	Brian Wagner	University of Tennessee at Martin
11:20	CP6.3*	n -Good Hypergraphs	Mark Budden	Western Carolina University
Additional Author: Andrew Penland, Western Carolina				

KNT 203. *Contributed Session on Probability and Statistics.* Session Chair: David Nelson (Mercer University)

Time	Talk Number	Title	Presenter	Affiliation
10:00	CP7.1*	Comparing Two Populations Using Reaction Time Data	Andrew Chockla	Western Carolina University
10:20	CP7.2*	Abstract Withdrawn	Abstract Withdrawn	Abstract Withdrawn
10:40	CP7.3*	Math Placement at Western Carolina	John Wagaman	Western Carolina
Additional Author: Ben Kearns, Mathematics Tutoring Center, Western Carolina University				
11:00	CP7.4*	Providing Real Time Instructor Feedback about undergraduate learning through machine algorithms	Alex Lyford	University of Georgia

KNT 206. *Contributed Session on Algebra, Number Theory, and Topology, Part 2.* Session Chair: Margaret Symington (Mercer University)

Time	Talk Number	Title	Presenter	Affiliation
10:00	CP8.1*	Integer Complexity and P-Adic Expansions of Rational Numbers	Joshua Zelinsky	Birmingham Southern University
10:20	CP8.2*	Some Interesting properties of p-regular partitions	Louis W. Kolitsch	University of Tennessee at Martin
10:40	CP8.3*	Which Triangular Numbers are perfect	Tilahun Muche	Savannah State University

KNT 207. General Contributed Session. Session Chair: Vijay Kumar (Albany State University)

Time	Talk Number	Title	Presenter	Affiliation
10:00	CP9.1*	The Seven Tellings of Time: The Mathematics and Politics Behind the Hands on Your Clock	Damon Scott	Francis Marion University
10:20	CP9.2*	The Contributions of Women Mathematicians throughout the History of Athens State University	Ronald L. Merritt, Jr.	Athens State University
10:40	CP9.3*	Nonlinear Oscillations, Elliptic Functions and Simulation Differential Equations in Simulink	Russell Herman	University of North Carolina at Wilmington
11:00	CP9.4*	Porous Medium Equation and Its one parameter family of solutions with degenerate interface	Laxmi Paudel	Albany State University
Additional Author: Joseph Iaia, University of North Texas				
11:20	CP9.5*	Differential Equations with Hypergeometric Solutions of Degree 1 or 2	Vijay J. Kunwar	Albany State University

KNT 212. Undergraduate Papers Session E. Session Chair: Axel Brandt (Davidson College)

Time	Talk Number	Title	Presenter	Affiliation
10:00	UT5.1	Finding a Better Concert Tour	Caitlin McCurdy	Birmingham-Southern College
10:20	UT5.2	Partial Spanning Trees: A Strategy for Ticket to Ride	Catherine Bowers	Birmingham-Southern College
10:40	UT5.3	Network Modeling of infectious disease: transmission, control, and prevention	Christina Chandler	Georgia Southern University
11:00	UT5.4	Abstract Withdrawn	Abstract Withdrawn	Abstract Withdrawn
11:20	UT5.5	Effects of competition-mediated dispersal on the persistence of a population	Emily Cosgrove	Auburn University Montgomery
Additional Author: Eddie Lindsey, Auburn University Montgomery				

KNT 100. Undergraduate Papers Session F. Session Chair: Randy Heaton (Wesleyan College)

Time	Talk Number	Title	Presenter	Affiliation
10:00	UT6.1	Topological and Combinatorial Characterizations of Factorization in Integral Domains	Adam Pratt	Birmingham-Southern College
10:20	UT6.2	A Prime Sieve Using Moduli and Closed Groups	Anthony Bush	Georgia Southern University
Additional Author: Ionut Iacob, Georgia Southern University				
10:40	UT6.3	Quantifying SDS Sortability of Permutations Using Strategic Piles	Bethany Molokach	Western Carolina
Additional Author: Marisa Gaetz, Massachusetts Institute of Technology; Marion Scheepers, Boise State University; Meghan Shanks, Texas A&M University				
11:00	UT6.4	Talk moved	Talk moved	Talk moved
11:20	UT6.5	Elliptic curves induced by nice cubic polynomials	Darien Converse	Armstrong State University
Additional Author: Duc Hyunh, Armstrong State University				
11:40	UT6.6	Solve B-1196 from the The Fibonacci Quarterly	Welfare Wang	The Citadel

KNT 101. Undergraduate Papers Session G. Session Chair: Zach Abernathy (Winthrop University)

Time	Talk Number	Title	Presenter	Affiliation
10:00	UT7.1	The Quest for the Ultimate Team	Henry Crosby and Stephen Himic	Birmingham-Southern College
10:20	UT7.2	Optimizing Checkout Times	Katie Kruzan	Belmont University
Additional Author: Heather Flanagin				
10:40	UT7.3	Differential Forms of Maxwell's Equations in Free Space	Keisha Daughtry	High Point University
11:00	UT7.4	Simulations on a Mathematical Model of Dengue Fever with a Focus on Mobility	Kelly Reagan	Elon University
Additional Author: Crista Arganala and Karen Yokley, Elon University				
11:20	UT7.5	The O-C diagram and Its Application to	Kyle	High Point

		Astrophysical Sciences	Corcoran	University
Additional Author: Brad Barlow, High Point University				
11:40	UT7.6	Generalization of Two Inequalities with AM, GM, and HM	John Risher	University of South Carolina Salkehatchie
Additional Author: Wei-Kai Lai, University of South Carolina Salkehatchie				

KNT 104. *Undergraduate Papers Session H.* Session Chair: Sarah Nelson (Lenoir-Rhyne University)

Time	Talk Number	Title	Presenter	Affiliation
10:00	UT8.1	Determinant of a Fibonacci matrix	Hsin-Yun Ching	The Citadel
Additional Author: Jamme Butler, The Citadel				
10:20	UT8.2	Creating a Field Structure for the Pythagorean Triples	James T. Eskew	The University of Tennessee at Martin
Additional Author: Chris K. Caldwell, University of Tennessee at Martin				
10:40	UT8.3	A Rational Fibonacci to the n Identity	Luke Tiscareno	The Citadel
Additional Author: Marcus Harbol, The Citadel				
11:00	UT8.4	Abstract Withdrawn	Abstract Withdrawn	Abstract Withdrawn
11:20	UT8.5	Augmented Happy Function with Complex Variables	Marcus Harbol	The Citadel
Additional Author: Breeanne Stewart, The Citadel				
11:40	UT8.6	The Relationship between Primes and Consecutive Integers	David Shane and Adam Kurbansho	Methodist University

KNT 108. Undergraduate Papers Session I. Session Chair: Jessica Williams (Converse College)

Time	Talk Number	Title	Presenter	Affiliation
10:00	UT9.1	The Shapley Value of Digraph Games	Krishna Khatri	Piedmont College
10:20	UT9.2	Ramsey Theory	Eric Zhang	Coastal Carolina University
10:40	UT9.3	Weakened Gallai-Ramsey Numbers	Gabrielle Beam	Western Carolina University
Additional Author: Mark Budden, Western Carolina University				
11:00	UT9.4	Doughnuts of Many Colors	Joseph Johnson	Lenoir-Rhyne University
11:20	UT9.5	Ensuring Fairly Timed Network Communication	James Andrus	The Citadel
Additional Authors: Shankar Banik, Breeanne Swart, Michael Verdicchio, The Citadel				
11:40	UT9.6	Ascending Subgraph Decompositions of the Oriented Multipartite Graphs $K(2:3n)$	Andrea Austin	University of Tennessee at Martin
Additional Author: Brian Wagner, University of Tennessee at Martin				

12:15 – 1:15

**Math Jeopardy Final Round: WHM Auditorium
Announcement of Student Prize Winners.**

Index of Speakers

Alhaddad	Shemsi	Friday	SS1.4	3:00	alhaddad@mailbox.sc.edu
Andrus	James	Saturday	UT9.5	11:20	jandrus@citadel.edu
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Ault	Shaun	Friday	SS1.6	3:40	svault@valdosta.edu
Austin	Andrea	Saturday	UT9.6	11:40	anddpick@ut.utm.edu
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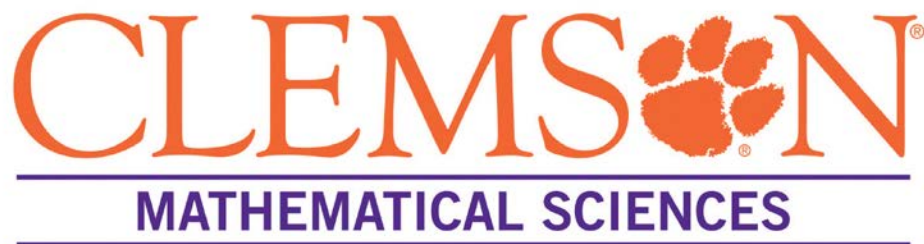
Steele	Richard	Friday	UT2.4	13:00	rs05192@georgiasouthern.edu
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Treasure Hunt Planning Team

Julie Barnes	Western Carolina University
Axel Brandt	Davidson College
Shih-Wei Chao	University of North Georgia
Andrew Chockla	Western Carolina University
Timothy Goldberg	Lenoir-Rhyne University
Kerri Jamerson	Mars Hill University
Bryan Lai	The University of South Carolina at Salkehatchie
Sarah Nelson	Lenoir-Rhyne University
Frank Patane	Samford University
Andrew Penland	Western Carolina University
Laura Steil	Mars Hill University
Breeanne Swart	The Citadel

Join us next year at Clemson University Clemson, SC March 23 – 24, 2018

The Mathematical Sciences Department in the College of Science of Clemson University will host the 2018 Annual Meeting of the Southeastern Section of the Mathematical Association of America, March 23-24, 2018, during Clemson's spring break. Most meeting rooms will be in Brackett Hall (pictured) and the nearby Hardin Hall. Blocks of rooms will be reserved at several hotels/motels in Clemson. Several campus parking lots will be available for your use. Clemson University is located in the Upstate of South Carolina, approximately midway between Atlanta and Charlotte on the I-85 corridor. Everyone is invited!



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 (Jeff Clark (NC), David Dempsey (AL), Virginia Watson (GA), Laurie Heyer (NC), Antara Mukherjee (SC), and Brian O'Connor (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>
Secretary	Catherine Matos (Clayton State University)
Treasurer	Tom Fitzkee (Francis Marion University)
Section Lecturer:	Sarah Greenwald (Appalachian State University)
TN State Director:	Ben Ntatin (Austin Peay State University)
Section NExT Co-director (2 year):	Kristen Abernathy (Winthrop University)
Section NExT Co-director (3 year):	Zach Abernathy (Winthrop University)

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

Meeting sponsored by:

