# 2016 MAA-SE Conference Program 95<sup>th</sup> Annual Meeting



March 25-26, 2016 University of Alabama at Birmingham Birmingham, Alabama

#### **Officers of the Southeastern Section**

Chair Past-Chair Vice Chair for Two Year Colleges Vice Chair for Programs Treasurer Secretary Section Governor Section Lecturer Newsletter Editor Student Activities Coordinator Beginning Faculty Activities Coordinator Historian Webmaster Directors of Project NExT\_SE

State Director (Alabama) State Director (Georgia) State Director (North Carolina) State Director (South Carolina) State Director (Tennessee)

Pat Humphrey Jeff Knisley Alice Pierce Sarah Raynor **Emily Hynds Catherine Matos** Charlotte Knotts-Zides Chris Raridan Jessica Hamm Kristen Abernathy Ron Taylor Virginia Watson Jim Gleason Karen O'Hara Jon Ernstberger Stacey Ernstberger **Bernie Mullins** Karen Briggs Jason Parsley Brian Beasley Laurie Dishman

MAA SOUTHEASTERN SECTION

**Ninety-fifth Annual Meeting** 

#### University of Alabama Birmingham

**Birmingham**, AL

#### Thursday—Saturday, 24-26 March 2016

http://sections.maa.org/southeastern/maase/conference2016/

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

- HSC Hill Student Center
- HHB Heritage Hall
- CH Campbell Hall

#### Thursday, 24 March

- 2:00 5:00 Project NExT-SE Activities, HHB227.
- 6:30 9:30 Executive Committee Dinner and Meeting: Ted's Restaurant, 328 12<sup>th</sup> Street South.

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, HHB Lobby.
7:30 – 9:30	Activities in HHB.

#### Friday, 25 March

7:00 – 4:30	Registration, HSC Third Floor Lobby.
7:30 - 11:00	Refreshments available, HSC Third Floor Lobby and HHB Lobby.
8:00 - 11:30	Project NExT-SE Activities, HHB 227.
8:00 - 11:45	Math Jeopardy:
	8:00 – 11:00 Preliminary Rounds, HHB 102, 104, 121.
	These rounds begin at 8:00, 9:00, and 10:00.
	11:00 – 11:45 Semifinals, HHB 102, 104, 121.
	Organizers: Brian Wagner (UT Martin), Jeffrey Powell (Samford), Mike Berry (UT Knoxville), ron taylor (Berry College) Moderators: Mike Berry, Brian O'Connor (TN Tech) and Tim Goldberg (Lenoir- Rhyne)

- Projects and Case Studies to Promote Quantitative Literacy, Ryan Fox and Andy Miller (Belmont University), HSC 204-206
- Using Instructional Tasks in College Algebra and Precalculus to Improve Conceptual Understanding, Stephanie Kolitsch (University of Tennessee at Martin) and Holly Anthony (Tennessee Technological University), HSC 314
- Counting Lattice Paths using Fourier Methods, Shaun Ault and Charles Kicey (Valdosta State University), HSC 312
- Graduate Student Career Development Workshop, Kristen Abernathy (Winthrop University), HSC 220

#### HHB 106. Distinguished Lectures for Students.

Session Chair: Sarah Raynor, Wake Forest University

- DS.1\* 9:00: How small is too small? Modeling the effects of habitat fragmentation via reaction diffusion equation, Jerome Goddard II, Auburn University Montgomery
- DS.2\* 10:00: Partitions and compositions: A tale of two symmetries, Sarah Mason, Wake Forest University.
- 9:30 4:00 Exhibits, HSC Third Floor Lobby

#### 11:45 – 12:30 Graduate School and Career Fair: HSC 330 (Ballroom)

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

12:45 – 1:45 GS.1 General Session I, HSC 331-333 (Ballroom).

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

#### Welcome from University of Alabama at Birmingham:

Dean Robert E. Palazzo, College of Arts and Sciences

### Invited address: Graph Labelings for Everyone! Christopher Raridan, Clayton State University, 2015-2016 MAA SE

Section Lecturer.

2:00 – 4:00 Refreshments available, HSC Third Floor Lobby and HHB Lobby.

#### 2:00—2:50 Publisher Presentation, HSC 204-206.

PUB.1 2:00 - 2:50: *Hawkes Learning: Revolutionizing Math Courseware*, Emily Judy, Hawkes Learning Systems

Hawkes Learning has enhanced its courseware, building new functionality for customization with the feedback of instructors from across the country! Exciting innovations are now available with our tablet-friendly learning platform. Check out the new customization tools to individualize your curriculum and tailor the student experience in the learning path, including single sign-on from Blackboard, Canvas, and D2L. Join us to learn more about these exciting developments, including several brand-new courses available for review, and enter to win a \$25 Amazon gift card!

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

**HSC 318.** Special Session on What Hath Fibonacci Wrought? Part 1. Organizers: Brian Beasley (Presbyterian College) and David Stone (Georgia Southern University).

	Talk			
Time	Number	Title	Presenter	Affiliation
				Kennesaw State
2:00	SS1.1*	Fibonacci Series Seriously	Steven Edwards	University
				Francis Marion
2:20	SS1.2*	Areas of Fibonacci and Lucas Polygons	Jeremiah Bartz	University
		From Fibonacci Sequence to Solving		Mercer
2:40	SS1.3*	Polynomials. Preliminary Report.	Soowhan Yoon	University
Addition	nal Author: C	urtis Herink, Mercer University		
		Covering Systems Concerning the		University of
3:00	SS1.4*	Fibonacci Numbers	Wilson Harvey	South Carolina
Addition	nal Author: N	lichael Filaseta, University of South Carolina	l	
Ognian	Trifonov, Un	iversity of South Carolina		
		Fibonacci in Cantor's Proof of		
3:20	SS1.5*	Uncountability	Tom Wright	Wofford College
Addition	nal Author: N	Iike Krebs, Cal State, LA		

**HSC 316.** Special Session on the Teaching of Courses in the First Two Years of College. Part 1. Organizer, Alice Pierce (Georgia Perimeter College)

Time	Talk Number	Title	Presenter	Affiliation
		Differentiated Calculus: How does prior		
2:00	SS2.1*	Calculus knowledge of peers affect students' experience in Calculus?	Adam Graham- Squire	High Point University
Addition	nal Authors:	Lindsay Piechnik and Karen O'Hara, High Point	University	
2:20	SS2.2	Review Revisited	Diana McGinnis	Perimeter College at Georgia State University
2:40	SS2.3*	Computer-Based Precalculus and Calculus	Francesco Strazzullo	Reinhardt University
2.00	552.4*	Why Undergraduate Students cannot Execute Their own Global Plans for Solving Mathematical Problems in In-class Assignments.	Kedar	Mercer
5:00	552.4*		Inepai	Perimeter College
3:20	SS2.5*	Creating Connections in an Online Classroom	Allison Williams	at Georgia State University
3:40	SS2.6*	Application of Cycloid to Techniques of Integration	Dana Stanfill	University of Tennessee at Martin

**HSC 220.** Special Session on Best Practices in the First and Second Courses of Elementary Statistics, Organizer, Philip Larson (Greenville Technical College)

	Talk					
Time	Number	Title	Presenter	Affiliation		
		Low Tech Student Engagement				
2:00	SS3.1*	Techniques	Cathy Whitlock	UNC Asheville		
		Incorporating Real Data Sets and Writing				
		into an Introductory Statistics Course		Kennesaw State		
2:20	SS3.2*	Focused on Sports and Games	Joe DeMaio	University		
Addition	Additional Author: Amy Hillen, Kennesaw State University					

**HSC 310.** Special Session on Activities for Math Clubs, Part 1, Organizer, Meredith Burr (Clemson University)

Time	Talk Number	Title	Presenter	Affiliation
		Using Math Club Activities to Create a		
		Dynamic Departmental Learning		Western Carolina
2:00	SS4.1*	Community	Julie Barnes	University
Additional Author: Bethany Molokach, Western Carolina University				
		Unique Opportunities for Growth and		Belmont
2:20	SS4.2*	Collaboration via a Math/CS Club	Kailee Gerzema	University
		Math Club Events at the University of		University of
2:40	SS4.3*	North Alabama	Emily Malone	North Alabama
		Using Popular Games to Promote		University of
3:00	SS4.4*	Mathematics	Ronda Sanders	South Carolina

**HSC 314.** Special Session on Presentations by Beginning Faculty. Organizer, Ron Taylor (Berry College)

Time	Talk Number	Title	Presenter	Affiliation	
	1 (unio ei	Essential Pattern Groups of Finite Tree	Andrew	Western Carolina	
2:00	SS5.1	Automorphisms	Penland	University	
		Infinite Wedge Representations of a Lie		Belmont	
2:20	SS5.2	Superalgebra	Brad Schleben	University	
		Statistical Analysis of Sedimentological			
		and Paleontological Data from the	Jillian	University of	
2:40	SS5.3*	Blackwater Draw Formation	Stupiansky	North Alabama	
Addition	Additional Authors: David Schmidt, Westminster College; Brian Steffen, South Louisiana Community				
College					
		DI-pathological graphs and the link to		Dalton State	
3:00	SS5.4*	inverse domination	John Asplund	College	
Additon	al Authors: J	oe Chaffee, Kaiser Permanente; James Hamn	ner, Cedar Crest Co	ollege; Ossama	
Saleh, U	Iniversity of T	Fennessee at Chattanooga; Lucas Van der Me	erwe, University of	Tennessee at	
Chattan	ooga; Terry V	Valters, University of Tennessee at Chattanoo	oga		
		Undergraduate Research in Permutation		University of	
3:20	SS5.5*	Groups and Sliding Disk Puzzles	Lee Raney	North Alabama	
Addition	Additional Authors: W. Andrew Craft, University of North Alabama; Austin Oldag, University of North				
Alabama	Alabama; Andrew Penland, Western Carolina University				

# HHB 227. Special Session on Critiqued Presentations by Graduate Students. Organizer: Kristen Abernathy, Winthrop University

	Talk			
Time	Number	Title	Presenter	Affiliation
				Tennessee
				Technological
2:00	GW1.1*	On the Density of Reciprocal Bases	Keith Terrill	University
		Students' Performance, Challenges and		
		Needs in High School Mathematics in	Courtney	Albany State
2:20	GW1.2	the Southwest Georgia	Brown	University
Additional Author: Li Feng, Albany State University				
		Conditions for the Existence of		Georgia Southern
2:40	GW1.3	Gorenstein Projective Precovers	Michael Fox	University
Addition	al Author: Al	ina Iacob, Georgia Southern University		
		An Improved Modal Interval Algorithm		
		for Unconstrained Continuous Minimax		University of
3:00	GW1.4	Problems	Xin Luo	Alabama
Additional Author: Min Sun, University of Alabama				
		On linear list \$r\$-hued colorings of		West Virginia
3:20	GW1.5	sparse graphs	Murong Xu	University

#### HHB 121. Contributed Session on Undergraduate Research and the Teaching of Upper Level Mathematics. Session Chair: Antara Mukherjee

Time	Talk Number	Title	Presenter	Affiliation
		Quasigroups and Undergraduate Research		University Of
2:20	CP1.2*	Projects	Mark Greer	North Alabama
				University of
2:40	CP1.3*	Abstract Algebra Discovery Projects	Karen Briggs	North Georgia
		Introducing Students to Conjectures,		
		Exploration and Visual Proofs using	Antara	
3:00	CP1.4*	Experiments in Topology	Mukherjee	The Citadel
Addition	hal Author: R	igoberto Florez, The Citadel		
				University of
		Encouraging Higher Level Thinking in an		Tennessee,
3:20	CP1.5*	Inverted Multivariable Calculus Class	Joshua Mike	Knoxville

# HHB 124. Contributed Session on Analysis and Applications. Session Chair: Ashok Kumar

	Talk				
Time	Number	Title	Presenter	Affiliation	
		Compute the exponential of matrix with		University of	
		new scaling-squaring Chebyshev		South Carolina	
2:00	CP2.1*	algorithm	Yilian Zhang	Aiken	
		Abel's Identity, Vandermonde Matrices,		Armstrong State	
2:20	CP2.2*	and Proof	Sungkon Chang	University	
		A delay differential equation model of			
		phosphorylation of endothelial nitric		Kennesaw State	
2:40	CP2.3	oxide synthase	Lake Ritter	University	
Addition	hal Authors: J	John Salerno and Carol Chrestensen, Kennesa	w State University	1	
		Mathematical and Computational	Marrisa A	Albany State	
3:00	CP2.4*	Modeling of Certain Biological Systems	Merrell	University	
Addition	nal Author: A	nilkumar Devarapu, Albany State University		·	
		Double Negative Behavior in		Auburn University	
3:20	CP2.5*	Metamaterials	Yue Chen	at Montgomery	
Addition	Additional Author: Robert Lipton, Louisiana State University				
				Georgia Southern	
		ADRC Control of Lorenz Systems with		University Math	
3:40	CP2.6*	Uncertainties	Zachary Espe	Department	
Addition	nal Author: Y	an Wu, Georgia State University			

# HHB 125. Contributed Session on Number Theory and Algebra. Session Chair: Shivappa Palled

	Talk			
Time	Number	Title	Presenter	Affiliation
2:00	CP3.1*	Runs of Consecutive Abundant Numbers	Bill Linderman	King University
		No Fractions: Integer Solutions for Linear		
2:20	CP3.2*	Equations	Jeffrey Clark	Elon University
2:40	CP3.3*	Progress on the Perfect Cuboid	John J McKinley	
				The University
		Investigating the Truncated Jacobi Triple		of Tennessee at
3:00	CP3.4*	Product	Louis Kolitsch	Martin
		Capelli-Rédei Theorem, Solvable Quintics,		Union
3:20	CP3.5*	and Finite Fields	Matt Lunsford	University

# HHB 126. Contributed Session on Graph Theory and Voting Theory. Session Chair: Ben Wescoatt

	Talk					
Time	Number	Title	Presenter	Affiliation		
				Western		
		Hypergraph Ramsey Numbers Involving		Carolina		
2:00	CP4.1*	Paths and Stars	Mark Budden	University		
Additio	nal Authors:	Josh Hiller, University of Florida; Aaron Rapp,	University of North C	Carolina		
Greens	boro					
		Extremal Graph Theory for Graph		Davidson		
2:20	CP4.2*	Substructures	Lauren Keough	College		
Additio	Additional Author: Jamie Radcliffe, University of Nebraska-Lincoln					
		Monotonicity Violations in Instant Runoff	Adam Graham-	High Point		
3:00	CP4.3	Voting	Squire	University		

# CH 205. Undergraduate Papers Session A.

	Talk			
Time	Number	Title	Presenter	Affiliation
			Abrahim	Armstrong State
2:00	UT1.1	State Space Graphs and the N-Queens Problem	Ladha	University
Additio	nal Author:	Dr. Tricia Brown, Armstrong State University	·	·
			Tucker	Belmont
2:20	UT1.2	Exploring Ramsey Theory	Dowell	University
			Michelle	Clayton State
2:40	UT1.3	On the 6-cordiality of trees	Nguyen	University
Additio	nal Authors:	Elliot Krop and Keith Driscoll, Clayton State Uni	iversity	
		Strategy for a Closed Knight's Tour in the	Taylor	Birmingham-
3:00	UT1.4	Fourth Dimension	McCracken	Southern College
Additio	nal Author:	Xiaokun Ye, Birmingham-Southern College	·	·
				University of
				Tennessee at
3:20	UT1.5	The Radio Number of $K_n \to P$	Sarah Locke	Martin
Additio	nal Author:	Amanda Niedzialomski, University of Tennessee a	at Martin	·

#### Talk Time Number Title Presenter Affiliation Intermingled ascending wave M-sets with three Takuya 2:00 UT2.1 colors Wakayama **Davidson College** Additional Author: Dr. Carl Yerger, Davidson College Matrix Group Representation of Music Jack **Armstrong State** 2:20UT2.2 Compositions Wagner University Auburn On the Sequences of Exponents in Prime Safa University at 2:40UT2.3 Factorization Motallebi Montgomery Additional Author: Luis Alberto Cueva-Parra, Auburn University at Montgomery C. Matthew Winthrop 3:00 UT2.4 Triangles in Cayley Graphs Farmer University Additional Author: Jessie Hamm, Winthrop University Georgia College Determining the Rank of a Kronecker Sum and Kirsten & State 3:20 UT2.5 Characterizing Its Generalized Eigenvectors Morris University Additional Author: Brandon Samples, Georgia College & State University Distributions of Twin, Cousin, & Sexy Primes Cydney Lenoir-Rhyne 3:40 UT2.6 and Conjectures Caldwell University

#### CH 443. Undergraduate Papers Session B.

#### CH 204. Undergraduate Papers Session C.

	Talk					
Time	Number	Title	Presenter	Affiliation		
			W. Dalton			
2:00	UT3.1	A 15 Puzzle Game	Ethridge	USC Salkehatchie		
		Modeling habitat fragmentation at the	Alyssa Barnett	Auburn		
		landscape level via reaction diffusion	& Dexter	University		
2:20	UT3.2	equations	Harrell	Montgomery		
Additional Author: Jerome Goddard II, Auburn University Montgomery						
		Finding Fractional Order Derivatives on		Coastal Carolina		
2:40	UT3.3	Discrete Domains	Philip Paynter	University		
		Periodic Billiards Paths in Rational	Harrison	Dalton State		
3:00	UT3.4	Approximations of Non-Rational Triangles	Watts	College		
Additional Author: Jason Schmurr, Dalton State College						
		Modeling the Dynamics of Glioblastoma	Stephen	Winthrop		
3:20	UT3.5	Multiforme and Cancer Stem Cells	Steward	University		
Additio	Additional Authors: Maria Voelstad, Kristen Abernathy, and Zachary Abernathy, Winthrop University					

#### CH 396. Undergraduate Papers Session D.

	Talk					
Time	Number	Title	Presenter	Affiliation		
				Georgia College		
		Momentum Term for the Modified Spectral	Samantha	and State		
2:00	UT4.1	Projected Subgradient Method (MSPS)	Clapp	University		
Additio College	nal Authors: ; and Breean	Milagros Loreto, University of Washington, Both na Page, Eastern Washington University	ell; Charles Cra	atty, Westminster		
			Amanda	Birmingham-		
2:20	UT4.2	Bidding Connect Four	Amerson	Southern College		
		Optimizing power and efficiency of a model	Erez	Birmingham-		
2:40	UT4.3	heat engine	Kaminski	Southern College		
		Using Weighted Bipartite Matchings to	Kevin	Coastal Carolina		
3:00	UT4.4	Decrease Profit Loss	McCarey	University		
		Integrating 3D Printing and Computational				
3:20	UT4.5	Tools in Synthetic Biology	Erica Shook	Davidson College		
Additio	Additional Authors: A. Malcolm Campbell and Laurie J. Heyer, Davidson College					
	 	3D Hyperstereo Image Stitching	Jonathan	Belmont		
3:40	UT4.6	55 Hypersteres hinge butching	Hesser	University		
Additio	Additional Author: Michelle Guinn, Belmont University					

4:15 – 5:20 GS2.1\* General Session II, HSC 331-333 (Ballroom).

Charlotte Knotts-Zides, Section Governor, presiding. Awards.

Invited address: Voting in Agreeable Societies, Francis Su, Harvey Mudd College

#### Saturday, 26 March

- 7:30 10:30 Registration, HSC Third Floor Lobby.
- 7:50 8:35 MAA-SE Business Meeting, HSC 318
- 8:00 1:00 Exhibits, HSC Third Floor Lobby.
- 7:30 10:30 Refreshments available, HSC Third Floor Lobby and HHB Lobby.

#### 8:45 – 9:45 General Session III, HSC 331-333 (Ballroom).

Pat Humphrey, MAA-SE Chair, presiding.

#### Invited Addresses: GS3.1\* Modeling the Cancer Stem Cell Hypothesis, Kristen Abernathy, Winthrop University GS3.2\* Some of my favorite problems from the UGA Math Tournament, Mo Hendon. University of Georgia

10:00 - 11:30	Department Chairs' Meeting, HSC 203.
7:30 - 10:10	Undergraduate Poster setup, HSC 330 (Ballroom).
10:10 - 10:45	Undergraduate Poster judging, HSC HSC 330 (Ballroom).
10:45 - 12:00	<b>Undergraduate Poster Session, HSC HSC 330 (Ballroom).</b> Organizer: Christopher Raridan, Clayton State University.

#### **Undergraduate Poster Titles**

Talk			
Number	Title of Poster	Presenter	Affiliation
	Integrating Mathematics and		
	Technology for Assessing Athletes'		
UP1.1	Therapy	Willy Akasson	Emmanuel College
Additional Aut	thor: Bruce E. Scranton, Emmanuel College	9	
	Exploring Tensor Analysis and		Francis Marion
UP1.2	Differential Geometry	Preston Alexander	University
UP1.3	Arterial Remodeling in Hypertension	Daniel Alligood	Berry College
Additional Aut	thors: Valerie McLure and Austin Miller, B	erry College	
	Ramsey Numbers for Trees with Large		
UP1.4	Maximum Degree	Sami Austin	King University
	How Radical Was the Arithmetic at the		Western Carolina
UP1.6	Beginning of the Radical Decade?	Gabrielle Beam	University
			Western Carolina
UP1.7	Curiosity's Flight Path to Mars	Bridgette Berry	University
	Modeling the Survival Outcome of		Francis Marion
UP1.8	Leukemia	James Brown	University

UP1.9	Flight Optimization of a Discus	Samantha Cortese	Emmanuel College	
			University of	
UP1.10	Space Filling Curves	Camiron DeLoach	Tennessee at Martin	
			Coastal Carolina	
UP1.11	Space Filling Curves	Shaquille Dixon	University	
	Diagonal Ramsey Numbers for Trees			
UP1.12	with 9 Vertices	Josias Gomez	King University	
			Francis Marion	
UP1.13	Choose a Number	Teryese Grant	University	
	Closing the Gap on Multifold Triple		Francis Marion	
UP1.14	Systems	Kendrick Hardison	University	
	Fibonacci Number of the Chorded Cycle		Kennesaw State	
UP1.15	Graph	Denise Hernandez	University	
Additional Au	thors: David Richmond and Dr. Joe DeMaid	o, Kennesaw State Uni	versity	
	Does Pitcher's Arm Angle Affect			
UP1.16	Baseball Velocity?	Hudson Jacobs	Emmanuel College	
Additional Aut	thor: Bruce E. Scranton, Emmanuel College			
			The University of	
	Independence polynomal of a path-like		North Carolina at	
UP1.17	graph.	Taylor Jenkins	Asheville	
Additional Aut	thor: Patrick Bahls, UNC Asheville			
	Differential Geometry in General		Coastal Carolina	
UP1.18	Relativity	John Mastrobeti	University	
	The Mathematics of Real Estate			
UP1.20	Appraisal: Expenses vs Income	Meshach McKnight	Emmanuel College	
Additional Aut	thor: Bruce Scranton, Emmanuel College			
			Western Carolina	
UP1.21	Extending Five Spirals to Fullerenes	Bethany Molokach	University	
Additional Aut	thors: Kyle Flanagan, St. Mary's College of	Maryland; Rachel Olu	igbemi, Gordon	
College; and C	hristina Graves, The University of Texas at	Tyler	1	
	An ODE Model of Reverse Cholesterol		Kennesaw State	
UP1.23	Transport in Atherosclerosis	Shawn Phillips	University	
Additional Aut	thor: Lake Ritter, Kennesaw State Universit	У		
UP1.24	Tangle numbers of knots	Robby Quarles	Berry College	
			Kennesaw State	
UP1.25	Fibonacci Number of the Chorded Cycle	David Richmond	University	
Additional Author: Joe DeMaio and Denise Hernandez. Kennesaw State University				

	An Analysis of the Impact of the CSU		
	Peer Leader Program on Student		Columbus State
UP1.26	Performance in 2014-2015	Harrison Sharitt	University
Additional Aut	hor: Timothy Howard, Columbus State Un	iversity	•
UP1.27	Separable equivalence	Carter Smith	Berry College
Additional Author: Ron Taylor and Michael Papazian, Berry College			
			Francis Marion
UP1.28	Controlling Chaotic Systems	Brent Swallow	University
	An Analysis of a Modified Game of		Christian Brothers
UP1.29	Chutes and Ladders	Rebecca Wauford	University
			Coastal Carolina
UP1.30	The Basel Problem	Brandon Wiest	University

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

HSC 318. *Special Session on What Hath Fibonacci Wrought?* Part 2. Organizers: Brian Beasley (Presbyterian College) and David Stone (Georgia Southern University).

Time	Talk Number	Title	Presenter	Affiliation
		The Fibonacci Number of Tadpole and		Kennesaw State
10:00	SS6.1*	Jellyfish Graphs	Joe DeMaio	University
		On the number of decompositions of	Eugen J.	CSU, Columbus,
10:20	SS6.2*	$0 = \pm F_0 \pm F_1 \pm F_2 \pm \dots \pm F_n$	Ionascu	GA
Addition	nal Author: D	Oorin Andrica, Babes Bolyai University	·	
10:40	SS6.3*	A greedy continued fraction	andrew simoson	king university
		Comparing 2-adic Orders of Factorials		Presbyterian
11:00	SS6.4*	and Fibonacci Products	Brian Beasley	College

**HSC 316.** Special Session on the Teaching of Courses in the First Two Years of College. **Part 2.** Organizer, Alice Pierce (Georgia Perimeter College)

Time	Talk Number	Title	Presenter	Affiliation
		Engaging Non-Majors in Quantitative	Laura	College of
10:00	SS7.1*	Reasoning Students	Lynch	Coastal Georgia

10:20	SS7.2*	Note-Taking: One Step Ahead	Cindy Box	Georgia State University at Perimeter College
10:40	SS7.3*	Elementary Preservice Teacher Education: Facilitating a Focus on Student Thinking	Patty Anne Wagner	University of North Georgia
11:00 & 11:20 Additio	SS7.4* nal Author: Jo	Easy To Use GeoGebra Functions	William Griffin eter College	Georgia State University at Perimeter College

**HSC 314.** Special Session on Advances in the Theory and Applications of Dynamical Systems, Organizer, Israel Ncube (Alabama A & M University and MIT)

	Talk					
Time	Number	Title	Presenter	Affiliation		
		Stability in a scalar differential equation		Alabama A & M		
10:00	SS8.1*	with multiple, distributed time delays	Israel Ncube	University and MIT		
		A Non-Hereditary Realization [via a				
		Kolmogorov-Einstein Type Diffusion				
		Equation] of Fractional Derivatives with				
		Respect to an Arbitrary Function: An				
		Application to the Stabilization of a One-	Brahima	Lenoir-Rhyne		
10:20	SS8.2	Dimensional Euler-Bernoulli Equation.	Mbodje	University		
		Symmetry, geometric phase, and holonomy:	Jeffrey	Western Carolina		
10:40	SS8.3*	falling cats and swinging clocks	Lawson	University		
Addition	nal Author: N	Atthew Rave, Western Carolina University				
		Mixed mode oscillations in a stochastic	Susmita	Georgia College &		
11:00	SS8.4*	two-trophic ecological model	Sadhu	State University		
		A problem on global stability of a ratio-		Alabama A&M		
11:20	SS8.5*	dependent predator-prey model	Yinshu Wu	University		
Addition	Additional Author: Dr. Wenzhang Huang, The University of Alabama in Huntsville					

**HSC 310.** Special Session on Activities for Math Clubs, Part 2, Organizer, Meredith Burr (Clemson University)

Time	Talk Number	Title	Presenter	Affiliation	
10:00	SS9.1*	Dead Poets Society	Ron Taylor	Berry College	
Additional Author: Robert Vallin, Lamar University					

				University of			
10:20	SS9.2*	Successful Math Club Activities at UNG	Catrina May	North Georgia			
Addition	Additional Authors: Brandon Myers, Shae Lecroy, Miranda Booker, and Karen Briggs, University of						
North G	eorgia						
		What's Your Bid? Encouraging Creativity					
		and Teamwork by Holding a Math		Clemson			
10:40	SS9.3*	Auction	Rachel Grotheer	University			
				College of			
11:00	SS9.4*	Service Projects for Math Clubs	Laura Lynch	Coastal Georgia			

#### HHB 121. Contributed Session on Student Recruitment and Student Learning. Session Chair: Francesco Strazzullo

	Talk			
Time	Number	Title	Presenter	Affiliation
		Analyzing the Factors of Predections on		
		Student Performance in the HBCU in the	Mohammed	Elizabeth City
10:00	CP5.1*	Calculus	Hanif Talukder	State University
		Supplemental Instruction Shaping Student	Brandon	
10:20	CP5.2*	Success	Samples	Georgia College
Additional Author: Emily Baum, Georgia College				
		Use of Internship Experiences to Recruit		Columbus State
10:40	CP5.3*	Pre-service Math and Science Teachers	Tim Howard	University
Addition	nal Authors: I	Deborah Gober, Kimberly Shaw, Cindy Tickr	nor, Columbus Stat	e University
		Using Formative Assessment with Pre-		
		service Teachers to Develop a Conceptual		
		Knowledge of "Arithmetic & Algebraic"		Georgia Southern
11:00	CP5.4*	Fractions and Operations	Darley	University
Additional Author: Ha Nguyen, Georgia Southern University				
		Jumping in the shark tank for community-		
11:20	CP5.5*	based learning	Laurie Heyer	Davidson College

# HHB 124. Contributed Session on Numerical Methods and Applications. Session Chair: Allison Williams

Time	Talk Number	Title	Presenter	Affiliation	
10:00	CP6.1*	A New Algorithm for Maximum Flow Distribution Networks: The Modified Push Algorithm	Allan C Pangburn	USC Lancaster	
Addition	Additional Author: John Karlof, UNC Wilmington				

			Hassan	
		Global Asymptotic Stability in a Model of	Fathallah-	
10:20	CP6.2	Networks	Shaykh	UAB
		Feasibility Sampling in Interval Methods		
		for Special Multi-Constrained Global		University of
10:40	CP6.3*	Optimization	Mengyi Ying	North Goergia
		Construction of compactly supported tight		Methodist
11:00	CP6.4	wavelet frames	Jie Zhou	University
				Tennessee State
11:20	CP6.5	Linear Algebra in Compressed Sensing	Ghan S. Bhatt	University

### HHB 125. Contributed Session on Geometry and Topology. Session Chair: Ghan S. Bhatt

	Talk			
Time	Number	Title	Presenter	Affiliation
				Kennesaw
		Circling the Triangle: Constructing a Class of		State
10:00	CP7.1*	Delta Curves	William Griffiths	University
Additio	nal Authors:	William Selman, Philip Davis, Kennesaw State	University	
				University of
		The locus of "median lines" of Sierpinski's		Texas at San
10:20	CP7.2*	triangle	Eduardo Dueñez	Antonio
				Dalton State
10:40	CP7.3*	Triangular billiard surfaces	Jason Schmurr	College
				The
				University of
				Tennessee at
11:00	CP7.4	New examples of almost positive curvature	Jason DeVito	Martin

### HHB 126. General Contributed Session. Session Chair: Ben Wescoatt

	Talk			
Time	Number	Title	Presenter	Affiliation
				University of
				North
				Carolina at
10:00	CP8.1*	Reality Math	Dot Sulock	Asheville
		A fair-bold gambling function is simply		Davidson
10:20	CP8.2*	singular	Richard Neidinger	College

				Davidson
10:40	CP8.3*	Handicapping No-Tap Bowling	College	
Additio	nal Author:	Richard Yan, Davidson College		
				Georgia State
11:00	CP8.4*	Some Unusual Calculus Problems	Barrett Walls	University
Additional Author: Iason Rusodimos, Georgia State University				
		The Cuban Challenge, A Linear Algebra		UNC
11:20	CP8.5*	Problem?	Lothar Dohse	Asheville

# CH 205. Undergraduate Papers Session E.

	Talk				
Time	Number	Title	Presenter	Affiliation	
		Elliptic Curve Cryptography and the Lenstra	Moses	Methodist	
10:00	UT5.1	Algorithm	Chandiga	University	
			Tyler		
10:20	UT5.2	Weaker Forms of Lehmer Numbers	Woolley	Wofford College	
		Figure Eight Sidewalk Patterns: Let's Count	Thinh	Lenoir-Rhyne	
10:40	UT5.3	with Fibonacci and Lucas Numbers	Truong	University	
Additional Author: Chelsea Noel				·	
			Marcus		
11:00	UT5.4	Augmented Happy Functions of Higher Power	Harbol	The Citadel	
Additio	nal Author:	Breeanne Swart, The Citadel			
		A Series of Four Sums of a Fibonacci Number	Nathan		
11:20	UT5.5	to the Fourth Power	McAnally	The Citadel	
				The University of	
		A new quasi-positively curved biquotient of	Wesley	Tennessee at	
11:40	UT5.6	Sp(3) Martin Martin			
Additio	nal Author:	Jason DeVito, The University of Tennessee at Ma	rtin		

				1			
Time	Talk Number	Title	Presenter	Affiliation			
				Birmingham			
10:00	UT6.1	Logistic Regression Analysis in the NFL	Alex Fawal	Southern College			
Additio	onal Author:	Jordan McKnight, Birmingham Southern College					
		Convergence rates for high-dimensional half-	Robert J.	Clemson			
10:20	UT6.2	space depth	Fabrizio	University			
Additio	onal Author:	Michael A. Burr, Clemson University	•	·			
10:40	UT6.3	Random Visibility in Unit Bars	Jiarui Chu	Davidson College			
Additio	onal Author:	Laurie J. Heyer, Davidson College					
		Complete Graph Decompositions and P-		University of			
11:00	UT6.4	Groupoids	John Carr	North Alabama			
		A Decomposition of Parking Functions By	Melody	Western Carolina			
11:20UT6.5Undesired SpacesBruceUnive				University			
Additio	onal Authors	Ian Nicolas, Pacific University; Michael Dougher	rty, University	of California, Santa			
Barbara; Max Hlavacek, Harvey Mudd College; and Ryo Kudo, University of California, Los Angeles							
		On Bond Percolation in the Infinite Knight	Kristin	Winthrop			
11:40	UT6.6	Graph Hinson University					
Additio	Additional Author: Arran Hamm, Winthrop University						

# CH 443. Undergraduate Papers Session F.

# CH 204. Undergraduate Papers Session G.

	Talk			
Time	Number	Title	Presenter	Affiliation
		A Generalization of an Inequality with		
10:00	UT7.1	Harmonic Means	John Risher	USC Salkehatchie
		Graphical Modeling of Time Sensitive	Nikolas	Georgia Southern
10:20	UT7.2	Resource Allocation	Colbrook	University
		Modeling infectious disease epidemics in		
		discrete time with stochastic simulation for	Valerie	Georgia Southern
10:40	UT7.3	measles	Welty	University
Additio	nal Author: F	Patricia Humphrey, Georgia Southern University		
			Samantha	Methodist
11:00	UT7.4	Codes in Higher Dimensions	Scoggins	University
		Balancing Skeletal Chemical Equations Using	Emir	Methodist
11:20	UT7.5	Matrices	Nazdrajic	University

### CH 396. Undergraduate Papers Session H.

	Talk			
Time	Number	Title	Presenter	Affiliation
			Kimberly	
10:00	UT8.1	Dynamics of Co-orbital Moons Near Collision	Stubbs	UNC Asheville
Additio	nal Authors:	Fahd El Yahiaoui and Samuel R. Kaplan, UNC A	sheville	
		Fermat and Descartes: An Unlikely	Caleb	
10:20	UT8.2	Collaboration	Macdonald	UNC Asheville
Additio	nal Authors:	Gregory Boudreaux, UNC Asheville		
		Effectiveness of a Supplemental Instruction		
10:40	UT8.3	Program in a Statistics Classroom	Emily Baum	Georgia College
Additio	nal Author: H	Brandon Samples, Georgia College		
		A Mathematical Model for Predicting 300	Marquis	Birmingham-
11:00	UT8.4	Meter Hurdle Race Times	Pratt	Southern College
Additio	nal Author: C	Conner Young, Birmingham-Southern College		
			Vaibhav	George
		Using Hierarchical Linear Models to Measure	Jain & Luke	Washington
11:20	UT8.5	Resin Growth on trees in the Peruvian Amazon	Plowden	University

# 12:15 – 1:15Math Jeopardy Final Round: HSC 330-333Announcement of Student Prize Winners.

#### **Index of Speakers**

Talk		Talk			
Number	Talk Day	Time	Last Name	First Name	Email Address
GS3.1	Saturday	8:45	Abernathy	Kristen	abernathyk@winthrop.edu
UP1.1	Saturday	10:00	Akasson	Willy	s.wcakasson@ec.edu
UP1.2	Saturday	10:00	Alexander	Preston	PAlexander5044@g.fmarion.edu
UP1.3	Saturday	10:00	Alligood	Daniel	daniel.alligood@vikings.berry.edu
UT4.2	Friday	2:20	Amerson	Amanda	aaamerso@bsc.edu
CP4.3	Friday	2:40	Arangno	Deborah	deborah.arangno@lr.edu
SS5.4*	Friday	3:00	Asplund	John	jasplund@daltonstate.edu
UP1.4	Saturday	10:00	Austin	Sami	sdaustin@student.king.edu
SS4.1*	Friday	2:00	Barnes	Julie	jbarnes@email.wcu.edu
UT3.2	Friday	2:20	Barnett	Alyssa	abarnet6@aum.edu
SS1.2*	Friday	2:20	Bartz	Jeremiah	jbartz@fmarion.edu
UT8.3	Saturday	10:40	Baum	Emily	emily.baum@bobcats.gcsu.edu
UP1.6	Saturday	10:00	Beam	Gabrielle	gibeam1@catamount.wcu.edu
SS6.4*	Saturday	11:00	Beasley	Brian	bbeasley@presby.edu
UP1.7	Saturday	10:00	Berry	Bridgette	boberry1@catamount.wcu.edu
SS7.2*	Saturday	10:20	Box	Cindy	cbox@gpc.edu
CP1.3	Friday	2:40	Briggs	Karen	kbriggs@ung.edu
GW1.2	Friday	2:20	Brown	Courtney	courtneybrown@calhoun.k12.ga.us
UP1.8	Saturday	10:00	Brown	James	JBrown2989@g.fmarion.edu
UT6.5	Saturday	11:20	Bruce	Melody	mamacdonald1@catamount.wcu.edu
CP4.1	Friday	2:00	Budden	Mark	mrbudden@email.wcu.edu
UT2.6	Friday	3:40	Caldwell	Cydney	cydney.caldwell@my.lr.edu
UT6.4	Saturday	11:00	Carr	John	jacarr1@una.edu
UT5.1	Saturday	10:00	Chandiga	Moses	kmkmoses2@gmail.com
CP2.2	Friday	2:20	Chang	Sungkon	sungkon.chang@armstrong.edu
CP2.5	Friday	3:20	Chen	Yue	ychen5@aum.edu
UT6.3	Saturday	10:40	Chu	Jiarui	jichu@davidson.edu
UT4.1	Friday	2:00	Clapp	Samantha	samantha.clapp@bobcats.gcsu.edu
CP3.2	Friday	2:20	Clark	Jeffrey	clarkj@elon.edu
UT7.2	Saturday	10:20	Colbrook	Nikolas	nc01032@georgiasouthern.edu
UP1.9	Saturday	10:00	Cortese	Samantha	s.secortese@ec.edu
UP1.10	Saturday	10:00	DeLoach	Camiron	campdelo@ut.utm.edu
SS3.2	Friday	2:20	DeMaio	Joe	jdemaio@kennesaw.edu
SS6.1*	Saturday	10:00	DeMaio	Joe	jdemaio@kennesaw.edu
CP7.4	Saturday	11:00	DeVito	Jason	jdevito@ut.utm.edu
UP1.11	Saturday	10:00	Dixon	Shaquille	aincogni@coastal.edu
CP8.5	Saturday	11:20	Dohse	Lothar	dohse@unca.edu
UT1.2	Friday	2:20	Dowell	Tucker	tucker.dowell@pop.belmont.edu
CP7.2	Saturday	10:20	Dueñez	Eduardo	eduenez@gmail.com
SS1.1*	Friday	2:00	Edwards	Steven	sedwar 77@kennesaw.edu

CP2.6	Friday	3:40	Espe	Zachary	zacharyespe@comcast.net
UT3.1	Friday	2:00	Ethridge	W. Dalton	wde@email.sc.edu
UT6.2	Saturday	10:20	Fabrizio	Robert	rfabriz@g.clemson.edu
UT2.4	Friday	3:00	Farmer Fathallah-	C. Matthew	farmerc4@winthrop.edu
CP6.2	Saturday	10:20	Shaykh	Hassan	hfshaykh@uabmc.edu
UT6.1	Saturday	10:00	Fawal	Alex	adfawal@bsc.edu
GW1.3	Friday	2:40	Fox	Michael	mf03881@georgiasouthern.edu
SS4.2*	Friday	2:20	Gerzema	Kailee	kailee.gerzema@pop.belmont.edu
DS1.1	Friday	9:00	Goddard	Jerome	jgoddard@aum.edu
UP1.12	Saturday	10:00	Gomez Graham-	Josias	jogomez@student.king.edu
CP4.4	Friday	3:00	Squire Graham-	Adam	agrahams@highpoint.edu
SS2.1*	Friday	2:00	Squire	Adam	agrahams@highpoint.edu
UP1.13	Saturday	10:00	Grant	Teryese	tgrant5693@g.fmarion.edu
CP1.2	Friday	2:20 11:00 &	Greer	Mark	mgreer@una.edu
SS7.4*	Saturday	11:20	Griffin	William	william.griffin@gpc.edu
CP7.1	Saturday	10:00	Griffiths	William	wgriff17@kennesaw.edu
SS9.3*	Saturday	10:40	Grotheer	Rachel	rgrothe@clemson.edu
UT5.4	Saturday	11:00	Harbol	Marcus	mharbol@citadel.edu
UP1.14	Saturday	10:00	Hardison	Kendrick	khardison6208@g.fmarion.edu
SS1.4*	Friday	3:00	Harvey	Wilson	harveywa@math.sc.edu
GS3.2	Saturday	8:45	Hendon	Мо	mhendon@uga.edu
UP1.15	Saturday	10:00	Hernandez	Denise	dherna19@students.kennesaw.edu
UT4.6	Friday	3:40	Hesser	Jonathan	jonathan.hesser@pop.belmont.edu
CP5.5	Saturday	11:20	Heyer	Laurie	laheyer@davidson.edu
UT6.6	Saturday	11:40	Hinson	Kristin	hinsonk11@winthrop.edu
CP5.3	Saturday	10:40	Howard	Tim	Thoward@columbusstate.edu
SS6.2*	Saturday	10:20	Ionascu	Eugen	math@ejionascu.ro
UP1.16	Saturday	10:00	Jacobs	Hudson	s.hbjacobs@ec.edu
UT8.5	Saturday	11:20	Jain	Vaibhav	
UP1.17	Saturday	10:00	Jenkins	Taylor	tjenkin1@unca.edu
PUB1.1	Friday	2:00	Judy	Emily	
UT4.3	Friday	2:40	Kaminski	Erez	Ekaminsk@bsc.edu
CP4.2	Friday	2:20	Keough	Lauren	lakeough@davidson.edu
CP3.4	Friday	3:00	Kolitsch	Louis	lkolitsc@utm.edu
UT1.1	Friday	2:00	Ladha	Abrahim	al 8292@stu.armstrong.edu
SS8.3*	Saturday	10:40	Lawson	Jeffrey	jlawson@wcu.edu
CP3.1	Friday	2:00	Linderman	Bill	wclinder@king.edu
UT1.5	Friday	3:20	Locke	Sarah	sarklock@ut.utm.edu
CP3.5	Friday	3:20	Lunsford	Matt	mlunsford@uu.edu
GW1.4	Friday	3:00	Luo	Xin	xluo10@crimson.ua.edu
SS9.4*	Saturday	11:00	Lynch	Laura	llynch@ccga.edu

SS7.1*	Saturday	10:00	Lynch	Laura	llynch@ccga.edu
UT8.2	Saturday	10:20	Macdonald	Caleb	jmacdona@unca.edu
SS4.3*	Friday	2:40	Malone	Emily	emalone1@una.edu
UT5.6	Saturday	11:40	Martin	Wesley	wesmart@ut.utm.edu
DS1.2	Friday	10:00	Mason	Sarah	masonsk@wfu.edu
UP1.18	Saturday	10:00	Mastrobeti	John	aincogni@coastal.edu
SS9.2*	Saturday	10:20	May	Catrina	CAMAY1224@ung.edu
SS8.2	Saturday	10:20	Mbodje	Brahima	Brahima.Mbodje@lr.edu
UT5.5	Saturday	11:20	McAnally	Nathan	nmcanall@citadel.edu
UT4.4	Friday	3:00	McCarey	Kevin	kmmccarey@g.coastal.edu
UT1.4	Friday	3:00	McCracken	Taylor	rtmccrac@bsc.edu
SS2.2	Friday	2:20	McGinnis	Diana	dbmcginnis15@yahoo.com
CP3.3	Friday	2:40	McKinley	John	Jaybirdmac@gmail.com
UP1.20	Saturday	10:00	McKnight	Meshach	s.mtmcknight@ec.edu
CP2.4	Friday	3:00	Merrell	Marrisa	anilkumar.devarapu@asurams.edu
CP1.5	Friday	3:20	Mike	Joshua	mike@math.utk.edu
UP1.21	Saturday	10:00	Molokach	Bethany	bmmolokach1@catamount.wcu.edu
UT2.5	Friday	3:20	Morris	Kirsten	kirsten.morris@bobcats.gcsu.edu
UT2.3	Friday	2:40	Motallebi	Safa	smotalle@aum.edu
CP1.4	Friday	3:00	Mukherjee	Antara	antara.mukherjee@citadel.edu
UT7.5	Saturday	11:20	Nazdrajic	Emir	enazdrajic@student.methodist.edu
SS8.1*	Saturday	10:00	Ncube	Israel	Ncube.Israel@gmail.com
CP8.2	Saturday	10:20	Neidinger	Richard	rineidinger@davidson.edu
SS2.4*	Friday	3:00	Nepal	Kedar	nepal_k@mercer.edu
UT1.3	Friday	2:40	Nguyen	Michelle	nnguyen30@student.clayton.edu
CP6.1	Saturday	10:00	Pangburn	Allan	pangburn@mailbox.sc.edu
UT3.3	Friday	2:40	Paynter	Philip	ptpaynte@g.coastal.edu
SS5.1	Friday	2:00	Penland	Andrew	adpenland@email.wcu.edu
UP1.23	Saturday	10:00	Phillips	Shawn	physics.shawn@gmail.com
UT8.5	Saturday	11:20	Plowden	Luke	
UT8.4	Saturday	11:00	Pratt	Marquis	mapratt@bsc.edu
UP1.24	Saturday	10:00	Quarles	Robby	Robby.Quarles@vikings.berry.edu
SS5.5*	Friday	3:20	Raney	Lee	lraney@una.edu
GS1.1	Friday	12:45	Raridan	Christopher	ChristopherRaridan@clayton.edu
UP1.25	Saturday	10:00	Richmond	David	Drichmo1@students.kennesaw.edu
UT7.1	Saturday	10:00	Risher	John	risherjt@email.sc.edu
CP2.3	Friday	2:40	Ritter	Lake	lritter@kennesaw.edu
SS8.4*	Saturday	11:00	Sadhu	Susmita	susmita.sadhu@gcsu.edu
CP5.2	Saturday	10:20	Samples	Brandon	brandon.samples@gcsu.edu
SS4.4*	Friday	3:00	Sanders	Ronda	sanders@math.sc.edu
SS5.2	Friday	2:20	Schleben	Brad	brad.schleben@belmont.edu
CP7.3	Saturday	10:40	Schmurr	Jason	jschmurr@daltonstate.edu
UT7.4	Saturday	11:00	Scoggins	Samantha	sscoggins@student.methodist.edu
UP1.26	Saturday	10:00	Sharitt	Harrison	sharitt_harrison@columbusstate.edu
22					

UT4.5	Friday	3:20	Shook	Erica	ershook@davidson.edu
SS6.3*	Saturday	10:40	simoson	andrew	ajsimoso@king.edu
UP1.27	Saturday	10:00	Smith	Carter	Carter.Smith@vikings.berry.edu
SS2.6*	Friday	3:40	Stanfill	Dana	dandstan@ut.utm.edu
UT3.5	Friday	3:20	Steward	Stephen	stewards2@winthrop.edu
SS2.3*	Friday	2:40	Strazzullo	Francesco	fs1@reinhardt.edu
UT8.1	Saturday	10:00	Stubbs	Kimberly	kstubbs@unca.edu
SS5.3*	Friday	2:40	Stupiansky	Jillian	jstupiansky@una.edu
GS2.1	Friday	4:15	Su	Francis	su@math.hmc.edu
CP8.1	Saturday	10:00	Sulock	Dot	dsulock@unca.edu
UP1.28	Saturday	10:00	Swallow	Brent Mohammed	brentswallow@aol.com
CP5.1	Saturday	10:00	Talukder	Hanif	mtalukder@ecsu.edu
SS9.1*	Saturday	10:00	Taylor	Ron	rtaylor@berry.edu
GW1.1*	Friday	2:00	Terrill	Keith	kwterrill21@students.tntech.edu
UT5.3	Saturday	10:40	Truong	Thinh	quocthinh.truong@my.lr.edu
UT2.2	Friday	2:20	Wagner	Jack	jw5788@stu.armstrong.edu
SS7.3*	Saturday	10:40	Wagner	Patty Anne	patty.wagner@ung.edu
UT2.1	Friday	2:00	Wakayama	Takuya	tawakayama@davidson.edu
CP8.4	Saturday	11:00	Walls	Barrett	barrett.walls@gpc.edu
UT3.4	Friday	3:00	Watts	Harrison	hwatts1@daltonstate.edu
UP1.29	Saturday	10:00	Wauford	Rebecca	rwauford@cbu.edu
UT7.3	Saturday	10:40	Welty	Valerie	vw00536@georgiasouthern.edu
SS3.1	Friday	2:00	Whitlock	Cathy	whitlock@unca.edu
UP1.30	Saturday	10:00	Wiest	Brandon	bjwiest@g.coastal.edu
SS2.5*	Friday	3:20	Williams	Allison	allison.williams@gpc.edu
UT5.2	Saturday	10:20	Woolley	Tyler	woolleyta@email.wofford.edu
SS1.5*	Friday	3:20	Wright	Tom	wrighttj@wofford.edu
SS8.5*	Saturday	11:20	Wu	Yinshu	yinshu.wu@aamu.edu
GW1.5	Friday	3:20	Xu	Murong	muxu@mix.wvu.edu
CP8.3	Saturday	10:40	Yerger	Carl	cayerger@davidson.edu
CP6.3	Saturday	10:40	Ying	Mengyi	mying@ung.edu
SS1.3*	Friday	2:40	Yoon	Soowhan	10916858@live.mercer.edu
CP2.1	Friday	2:00	Zhang	Yilian	yilianz@usca.edu
CP6.4	Saturday	11:00	Zhou	Jie	jzhou@methodist.edu
CP5.4	Saturday	11:00		Darley	jdarley@georgiasouthern.edu

#### **Treasure Hunt Planning Team**

Name	Affiliation
Julie Barnes	Western Carolina University
John Asplund	Dalton State College
Emily Braley	Duke University
Meredith Burr	Clemson University
Suzanne B Culbreth	University of Alabama at Birmingham
Timothy Goldberg	Lenoir-Rhyne University
Rachel Grotheer	Clemson University
Lauren Keough	Davidson College
Wei-Kai Lai	The University of South Carolina at Salkehatchie
Frank Patane	Samford University
Andrew Penland	Western Carolina University
Lee Raney	University of North Alabama
Laura Steil	Mars Hill University
Breeanne Swart	The Citadel

**Contributors:** 

# CENGAGE LEARNING



COMING SOON: MINDTAP FOR MATHEMATICS

Cengage.com/MindTap

Ted's Restaurant 328 12th Street South "A BIRMINGHAM ORIGINAL" Open breakfast and lunch, Monday to Friday

24

# Join us next year at Mercer University Macon, GA March 10-11, 2017

The Mathematics Department in the College of Liberal Arts of Mercer University will host the 2017 annual meeting of the Southeastern Section of the Mathematical Association of America, March 10-11, 2017, during Mercer's spring break. Most meeting rooms will be in the Science and Engineering Building (pictured) and the adjacent Engineering Building (visible in the background). Blocks of rooms will be reserved at several hotels/motels in Macon, including two on the edge of Mercer's campus. Several campus parking lots will be available for your use. Mercer University is easily accessible from Interstate 75. Everyone is invited!



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



COLLEGE OF LIBERAL ARTS

### 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)

Offices Open for Election: Chair Elect Vice Chair for Two Year Colleges Vice Chair for Programs Section Lecturer Student Activities Coordinator Historian Webmaster Director of Project NExT-SE (One of three) State Director (Alabama) State Director (Georgia)

All other officers continue see: http://sections.maa.org/southeastern/?Section Information Section Officers and Committees.

Meeting sponsored by:





Knowledge that will change your world

The University of Alabama at Birmingham is a public institution with over 18,000 diverse students. UAB's vision is to be an internationally renowned research university — a first choice for education and health care. UAB's mission is to be a research university and academic health center that discovers, teaches and applies knowledge for the intellectual, cultural, social and economic benefit of Birmingham, the State of Alabama and beyond. In the past year, UAB has produced ground-breaking discoveries and innovations, delivering on our promise of "knowledge that will change your world." Our overarching mission pillars embody our commitment to educate, advance research and discovery, care for the sick, respond to the needs of our community and use knowledge to establish Alabama as a progressive economic center that can change the world. With an array of high-quality baccalaureate, masters, doctoral, and professional programs, UAB is a world leader in education.

