

**One Hundred and Twentieth
Annual Meeting**

**SOUTHERN
ASSOCIATION OF AGRICULTURAL
SCIENTISTS**

2024 Programs

Atlanta, Georgia
February 2-6, 2024

The Westin Peachtree Plaza
210 Peachtree Street NW
Atlanta, GA 30303

Group Rate: \$159/night + tax (Single/Double/Triple/Quad rooms)

Overflow hotels:
Omni Atlanta Hotel at Centennial Park
Courtland Grand Hotel
Home2 Suites by Hilton



For their support of the Southern Association of Agricultural Scientists, ***special thanks*** are expressed to:

For the Reception:

**Southern Farm Bureau Life
Insurance Company**
President
1401 Livingston Lane - 39213-8098
P. O. Box 78
Jackson, Mississippi 39205
(601) 981-7422

Conference participants are encouraged to thank the sponsor for their support of SAAS.



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**Southern Association
of Agricultural Scientists
Annual Meeting and Conference**



Atlanta, Georgia

SAAS strives to forward the interests of Southern agriculture by bringing agricultural leaders in the educational field and industry together. The association instructs and trains individuals for the purpose of improving or developing their capabilities relating to educational activities in service to the public arena. SAAS also offers young scientists an opportunity to present papers resulting from their research, extension, or other efforts and to exchange knowledge with other leaders.

**Thank you for attending and
taking part in this effort!**

Visit the SAAS website: www.saasinc.org

**2024 SAAS CONFERENCE PROGRAM
WESTIN PEACHTREE PLAZA, ATLANTA
February 02-06, 2024**

SAAS Registration

Sunday, February 04 - 8:00 am - 4:00 pm

Monday, February 05 - 8:00 am - 4:00 pm
The Overlook (Sixth Floor)

SAAS General Business Meeting

Sunday, February 04

4:00 pm – 5:00 pm

Keynote Speaker Dr. Misra, Director of NIFA
Chastain Room 1 / 2 (Sixth Floor)

SAAS Opening Social

Sponsored by Southern Farm Bureau
Life Insurance Co.

Jackson, Mississippi, and Affiliates

5:00 pm - Sunday, February 04

*Grand Loft - Southern Exchange
(Access via Seventh Floor)*

Executive Committee Meetings

Sunday, February 04

SAAS Board Meeting

2:30 pm – 3:30 pm

Chastain Room 1 / 2 (Sixth Floor)

Tuesday, February 06

SAAS Board Breakfast Meeting

7:30 am – 9:30 am

Chastain B (Sixth Floor)

**Conversations with Graduate Students about Animal Agriculture
Iowa State University Listening Sessions**

Saturday, February 03, 4:30 PM – 6 PM

Chastain J (Sixth Floor)

Sunday, February 04, 4:30 PM – 6 PM

Chastain I (Sixth Floor)

Monday, February 05, 4:30 PM – 6 PM

Chastain I (Sixth Floor)

**Administrative Heads of Agriculture Section (AHS)
Southern Association of Agricultural Scientists
2024 SAAS CONFERENCE**

**Monday, February 05
11:00 am – 3:00 pm
Administrative Heads of
Agriculture Section (AHS) Meeting**

Guest Speaker Dr. Misra, Director of NIFA
Piedmont 8 (Twelfth Floor)

Submit agenda items to Eric Young
Lunch will be served

National Agricultural Communications Symposium - 2024 AGENDA

Sunday, February 4th

7:00-7:30 a.m. **Breakfast/Check-In, Augusta 1/2**

7:30 - 8:30 a.m. **Business Session, Augusta 1/2**

- *Welcome & Introductions*
- *Program updates*
- *Final Call for officer nominations (Secretary and Student Representative)*
- *Online officer voting opens*

8:30-8:45 a.m. **Break**

8:45 – 10:05 a.m. **DISTINGUISHED PAPER SESSION, Augusta 1/2**

(15 min for presentation, 5 min for Q&A)

Discussant:

Facilitator:

High School Agricultural Communication Competencies: A High School Agriculture Educator Perspective

Mackenzie Atkins, Ricky Telg, Lauri M. Baker, & Kati Lawson | *University of Florida*

Exploring the Determinants of Intentions of Agritourism Businesses to Expand

Lauren Raley, Nellie Hill, Jason Ellis, Raluca Cozma, & McKenna Pavelock | *Kansas State University*

Quantifying Queer Visibility: A Content Analysis Exploring Queer Representation in Food and Agriculture Magazines

Jarred A. Shellhouse & Lauri M. Baker | *University of Florida*

From the Ground Up: An Arts-Based Analysis of Online Communication Impacts on Youths' Conceptualizations of Hydroponics and Related Careers

Madison A. Dymont, Mackenzie Atkins, Jamie Loizzo, Katie Stofer & Chris Decubellis | *University of Florida*

10:05-10:20 a.m. **Break**

10:20-11:05 a.m.

CONCURRENT PAPER SESSION I, Augusta 1/2

(10 min for presentation, 5 min for Q&A)

Discussant:

Facilitator:

Overcoming Barriers: Describing Cattle Producers' Motivations & Perceived Barriers Toward Adopting Sustainable Practices to Inform Communication Strategy

Kindle Catching, Ginger Orton, & Laura Fischer | *Texas Tech University*

Flint Hills Cattle Ranchers' Decision-Making Regarding Herd Productivity And Rangeland Management Practices

Madison Baughman, Katie Starzec, Nellie Hill, KC Olson, & Adrian Sulivant
| *Kansas State University*

'Yellowstone' ...Is this Really Ranching? An Exploratory Qualitative Analysis of Agriculture Priority Areas Featured in 'Yellowstone' TV Trailers

Lauren Chase, Whitney Stone, Cara Lawson, & Laura Fischer | *University of Oregon, Ohio State University, & Texas Tech University*

CONCURRENT PROFESSIONAL DEVELOPMENT I, Augusta H

Facilitator:

10:20 am - Optimizing Online Writing and Discussions through Packback

AI - Jamie Greig | *University of Tennessee, Knoxville*

10:35 am - Enhancing Online Engagement and Presentation Skills

through Virtual Reality Workroom Applications - *Jamie Greig*
| *University of Tennessee, Knoxville*

11:05 a.m.

Lunch (on your own) / Graduate Student Lunch

1:00 – 2:00 p.m.

CONCURRENT PROFESSIONAL DEVELOPMENT II, Augusta 1/2

1:00 pm - Communicating Across Worldviews in Agriculture and Natural

Resources, Sadie Hundemer, Stephanie Stoutamire, Cesar Zamora, & Madison Dymant | *University of Florida*

1:30 pm - Using Art to Communicate Agricultural and Environmental

Science - Emily A. Dustman, Allison R. Byrd, & Dr. Alexa J. Lamm | *University of Georgia*

**CONCURRENT PROFESSIONAL DEVELOPMENT III -
Roundtables, Augusta H**

1. ***People and Big Data: Embracing the Data Revolution in Agricultural Communications*** – Sarah A. Bush, Jean A. Parrella, & Carrie N. Baker | *University of Florida, Virginia Tech*
2. ***Z is for Zotero: Introduction to Citation Management Software*** - Fisher EasleySmith | *New Mexico State University*
3. ***How to Develop, Maintain, and Engage an Industry Advisory Board*** - Jacqueline V. Aenlle, Nellie Hill-Sullins, & Katie Starzec | *Kansas State University*
4. ***Leveraging Multiple Online Tools to Conduct Synchronous Online Q Sorts and Interviews with American Cattle Producers*** - Ginger Orton, Laura Fischer, Courtney Meyers, David Doerfert, & Matt Raven | *Texas Tech University, Michigan State University*
5. ***Teaching qualitative methods to student researchers: Accounting for power dynamics and biases when analyzing qualitative data*** - Jacqueline V. Aenlle, Whitney Stone, & Katie Starzec | *Kansas State University, Oregon State University*

2:00 p.m.	Poster set up – Savannah Ballroom
2:30 p.m.	Poster Session – Savannah Ballroom
4:00 - 5:00 p.m.	SAAS General Business Meeting – Chastain Room 1/2 <ul style="list-style-type: none">● Keynote Speaker - Dr. Manjit K. Misra<ul style="list-style-type: none">○ Director, USDA National Institute of Food and Agriculture
5:00 p.m.	SAAS Opening Social – Grant Loft (Southern Exchange)

Monday, February 5th

8:00 - 9:00 a.m. **CONCURRENT PROFESSIONAL DEVELOPMENT IV, Augusta 1/2**
Facilitator:

8:00 am - **Communicating and Teaching with Artificial Intelligence** -
Jazmine Norwood, Kelcey Trewin, & Alyssa Rockers | *Tennessee State University*

8:30 am - **Are We Missing Something: A Reflection on the Scholarship of Trust** - Fally Masambuka-Kanchewa, Alexa Lamm, Shuyang Qu, Catherine Sanders, Michael Retallick, & Kevan Lamm | *Iowa State University, University of Georgia, North Carolina State University*

CONCURRENT PROFESSIONAL DEVELOPMENT V, Augusta H
Facilitator:

8:00 am - **A Practical Guide for Reviewing Qualitative Research Journal Articles** - Karli Yarber, Catherine Sanders, & Annie Specht | *University of Arkansas, North Carolina State University, The Ohio State University*

8:30 am - **An Introduction to The iVisit Project: Preliminary Lessons Learned and Shared Best Practices for Development and Implementation of Interactive Virtual Reality Tours** - Gabriel Spandau | *University of Florida*

9:00 – 9:15 a.m. **Break**

9:15 – 10:15 a.m. **CONCURRENT PAPER SESSION II, Augusta 1/2**
(10 min for presentation, 5 min for Q&A)
Discussant:
Facilitator:

Message Design Matters: An Experiment on Portrayal of Protective Action Guidance in Warning Messages for Three Hazards
Ginger Orton, Laura Fischer, Jeannette Sutton, & David Huntsman | *Texas Tech University, University at Albany, SUNY, & Huntsman Consulting, LLC*

Exploring Environmental Frames about Single-Use Plastics to Inform Visual Communication Messages

Kristin E. Gibson, Alexa J. Lamm, Kevan W. Lamm, Jessica Holt, & Kyle Maurice Woosnam | *University of Georgia*

Breaking Down the Sorghum Market: Identifying Target Audience Segments' Benefits for Strategic Communications

Joshue Lewis, Erica Irlbeck, & Laura Fischer | *Texas Tech University*

Public Engagement in Community Gardens: Communicating to Prepare for Climate Change Impacts on Gardens

Olivia M. Erskine, Alexa J. Lamm, Kevan W. Lamm, Catherine E. Sanders, & Kristin E. Gibson | *University of Georgia & North Carolina State University*

CONCURRENT PAPER SESSION III, Augusta H

Discussant:

Facilitator:

An Exploration of Early Career Agricultural and Natural Resource Scientists' Perceptions of Social Responsibility

Gabriel Spandau, Jamie Loizzo, Sadie Hundemer, Samuel Smidt, Alice Akers, Jehangir Bhadha, & Young Gu Her | *University of Florida*

An Enthusiastic But Uncertain Welcome: CRISPR Thematic Coverage In U.S. Agricultural News 2012-2022

Lindsey Middleton, Anqi Shao, Ashley Cate, Jade Haugen, & Nan Li | *University of Wisconsin-Madison*

A Barbie Doll with a Gun: Understanding Women's Motivations and Barriers to Hunting

Sarah A. Cain, Audrey E. H. King, Linnea Harvey, Betsey York, & Kelly M. Adams | *Oklahoma State University & Oklahoma Department of Wildlife Conservation*

Talking Mental Health: An Assessment Of Oregon Agricultural Stakeholders Discussing Mental Health

Whitney Stone & Lauren Chase | *Oregon State University*

10:15 – 11:00 a.m.

Break/ Hotel Checkout

11:00 a.m. **Business Meeting, Augusta 1/2**

- *Business items*
- *Announcement of Officers*
- *Poster awards*
- *Paper awards*

12:00 p.m. **Adjourn**

Tuesday, February 6th

(optional meeting - not part of NACS)

1:00 pm - 3:30 pm **MULTISTATE PROJECT NATIONAL MEETING, Chastain 1/2**

***S1095: Science Communication in Agriculture, Food, and Natural
Resources: Human Science Research and Workforce Development***

President: Jeff Miller

Secretary: Taylor Ruth

National Agricultural Communications Symposium Poster Session,

Savannah Ballroom

Sunday, Feb. 4

2:30 – 4:00 pm

RESEARCH POSTERS

**Finalist for Outstanding Research Poster*

1. **Influence of Visual Branding on Consumers' Purchasing Intent for Beef***
Abigail Durham, Bailey Watson, and Dr. Taylor Ruth | *University of Nebraska-Lincoln; University of Tennessee, Knoxville*
2. **Talking Pork: Tailored Communication for a Diverse Consumer Landscape***
Elisabeth Ramsey, Catherine E. Sanders, Alexa Lamm, Shuyang Qu, Fallys Masambuka-Kanchewa, Mike Retallick, & Kevan Lamm | *North Carolina State University; University of Georgia; Iowa State University*
3. **From the Inside Out: Exploring the Extension Brand as a Master Brand Within a State Extension System***
Ashley McLeod-Morin, Sandra Anderson, Anissa M. Mattox, Lauri M. Baker, Jason Bolton, and Hannah Carter | *University of Florida; University of Maine*
4. **Grower Communication Preferences for Water Related Information***
Kristin E. Gibson, Alexa J. Lamm, James Owen Jr., James Altland, Sarah A. White | *University of Georgia; Clemson University; USDA - ARS*
5. **"I Don't Even Know What Sustainability Is": Describing West Texas Cotton Farmer Communication Preferences for Learning about Voluntary Sustainability Programs***
Kylie Kitten, Laura Fischer, Ph.D., Donna McCallister, Ph.D. | *Texas Tech University*
6. **What's the Beef? Strategies Cattlemen's Organizations Currently Use to Communicate Animal Science and Livestock Production to Policymakers in the United States***
Maci Loving, Rylie Lux, Laura Fischer, Erica Irlbeck, and Ryan Rathman | *Texas Tech University*
7. **Factors Predicting the Cultural Competence Knowledge of Agricultural Communications Students***
Jean A. Parrella, Rafael Landaverde, Holli R. Leggett, Peng Lu, Dara Wald, Karissa Palmer | *Virginia Tech; Texas A&M University; University of Georgia*
8. **Reading Between the Labels: The Influence of Benefits Framing on Consumer Acceptance of a CRISPR-Produced Food***

Jean A. Parrella, Holli R. Leggette, Peng Lu, Gary Wingenbach, Matt Baker |
Virginia Tech; Texas A&M University; University of Georgia

9. Source Credibility in Image Types; Photograph, Illustration, or Cartoon?*

Gigi Gonsalves, Rieley Beauchamp, Maria Martinez, Jessica Holt | *University of Georgia*

10. Empowering Rural Entrepreneurs in Rural Oklahoma: A Holistic Digital Needs Assessment*

Laney Reasner, Audrey E. H. King, & Linnea Harvey | *Oklahoma State University*

11. An Exploration into Commodity Board Communication: Social Media Considerations*

Emily A. Dustman, Allison R. Byrd, Alexa J. Lamm, Kevan Lamm, Catherine E. Sanders, Shuyang Qu, Fallys Masambuka-Kanchewa, Michael S. Retallick
| *University of Georgia; North Carolina State University; Iowa State University*

12. What's All the Hype? Students' Reflections on the use of AI-Generated Messages to Communicate about Climate Change*

Karissa Palmer, Rafael Landaverde, Emily Fuller, Holli Leggette, Dara M. Wald, Logan Baker, Jean Parrella | *Texas A&M University; Virginia Tech University*

13. Farmer Mental Health Narratives: A moment-to-moment online dial testing study investigating two video approaches

Lisa K. Lundy, Ashley McLeod-Morin, David R. Buys, Tracy A. Irani, Ricky W. Telg, Angela B. Lindsey, Philip Stokes | *University of Florida; Mississippi State University*

14. Environmental Engagement: A continuous response measurement study of a wildlife documentary

Lisa K. Lundy | *University of Florida*

15. Hogwarts House Insights: Analyzing Team Decision-Making in an Agricultural Communication and Leadership Course

Matthew Gold, Madison A. Dymont, Dr. Laura L. Greenhaw | *University of Florida*

16. The Readability of Alabama Cooperative Extension System's Technical Publications

Clare E. Hancock, Norman E. Youngblood, and D. Adam Cletzer | *Auburn University*

17. Perceived Source Credibility: Contested expectations and definitions in agri-environmental contexts

Miguel Diaz-Manrique, Dara Wald, Seunguk Shin | *Texas A&M University*

18. Evaluating *Agriculture Today*: A Quantitative Exploration of an Extension Podcast's Listeners

Kennedy Johnson, Alea Durst, Shelby Spreier and Jacqueline Aenlle | *Kansas State University*

19. A Qualitative Analysis of Industry Stakeholder Perceptions of Undergraduate Certificates and Other Qualifications Received at Kansas State University

Gordon Clark, Sydney Garrett, Kennedy Johnson and Jacqueline Aenlle | *Kansas State University*

20. University Students' Perceptions of Soybeans and Soy-based Food Products

Sadaf Azhar, Kelly Getty, & Jacqueline Aenlle | *Kansas State University*

21. Social Media Analysis during Mental Health Awareness Month in Agriculture

Borges, Michelle; Chase, Lauren; Stone, Whitney | *Oregon State University*

22. Exploring Cognitive and Emotional Reception of News Articles About GMO Food

Megan Pietruszewski Norman, Janine N. Blessing, Jessica G. Myrick | *Penn State University, University of Augsburg*

23. Measuring Cattle Producers' Values for Effective Values-Based Communication about Encouraging Adoption of Sustainable Practices

Breely Huguley, Kylie Kitten, Laura Fischer, Ph.D., Kindle Catching, & Ginger Orton, M.S. | *Texas Tech University*

24. ANR Scientists' Communication Experiences: A Case Study of Past Practices and Project-Based Learning Student Collaboration Experiences

Maggie Murphy, Jamie Loizzo, Whitney Stone | *University of Florida; Oregon State University*

25. Communication and Trust: Leverage Points in Innovation Adoption and Discontinuance Experiences of Greenhouse Growers

Carrie N. Baker and Kathleen D. Kelsey | *University of Florida*

26. Framing Agricultural Labor Issues: An Analysis of News Coverage of the H-2A Program

Erica D. Summerfield, Dr. Cara Lawson, Finn Garrison, & Lauren Chase | *The Ohio State University*

27. A Systematic Literature Review of U.S. Consumers' Concerns Regarding the Pork Industry

Fally Masambuka-Kanchewa, Jessica Rodman, Alexa J. Lamm, Shuyang Qu, Catherine Sanders, Mike Retallick, & Kevan Lamm | *Iowa State University, University of Georgia; North Carolina State University*

INNOVATIVE POSTERS

**Finalist for Outstanding Innovative Idea Poster*

28. BEEFF with the News: Using Multiple Communication Channels to Teach Information*

Fisher EasleySmith, Taylor Scott, Lacey Roberts-Hill | New Mexico State University

29. Connecting States, Creating Collaboration: Multistate Website Peer Review Exchange*

Lacey Roberts-Hill, Kylie Kitten, & Laura Fischer | *New Mexico State; Texas Tech University*

30. Class Activity: How Students Can Turn Jargon into Messages the Public Understands

Shayne White, Dr. Laura Fischer | *Texas Tech University*

31. Digital Media Detox: Using a Social Media Cleanse in a Digital Media Class

Reagan Skow and Audrey E. H. King | *Oklahoma State University*

32. Leveraging 'Q Method Software' for Synchronous Online Card Sorting with American Cattle Producers

Ginger Orton, Dr. Laura Fischer, Dr. Courtney Meyers, Dr. David Doerfert, Dr. Matt Raven | *Texas Tech University; Michigan State University*

33. Empowering Interviews: Establishing Confidence in Sharing Personal Stories in Professional Interviews

Anne Hodnett, Shannon L. Norris-Parish | *New Mexico State*

National Agricultural Communications Symposium Executive Team

President

Taylor Ruth

University of Tennessee, Knoxville

Vice Secretary

Audrey King

Oklahoma State University

Secretary

Lacey Roberts-Hill

New Mexico State University

Executive Treasurer

Ricky Telg

University of Florida

Past President

Ashley McLeod-Morin

University of Florida

Graduate Student Representative

Ginger Orton

Texas Tech University

Conference Agenda

Southern Agricultural Economics Association (SAEA) 56th Annual Meeting

Date: Saturday, 03/Feb/2024

6:00pm - 8:00pm

Quiz Bowl Orientation
Location: **Chastain F**

Date: Sunday, 04/Feb/2024

8:00am - 12:00pm	Quiz Bowl Break/Recruitment Fair Location: Augusta Prefunction Foyer
9:00am - 2:00pm	SAEA Executive Council Meeting Location: Chastain B
9:00am - 4:00pm	Quiz Bowl Competition Location: Augusta B,C,D
12:00pm - 4:00pm	Registration Location: The Overlook
2:00pm - 3:30pm	Graduate Students Networking Reception Location: Augusta F
2:00pm - 4:00pm	Department Heads' Meeting Location: Chastain B
4:00pm	SAAS General Business Meeting Location: Chastain Room 1/2
5:00pm	SAAS Opening Social Location: Grand Loft (Southern Exchange)

Date: Monday, 05/Feb/2024

7:00am - 5:00pm **Registration - Monday**
Location: **The Overlook**

8:00am - 12:00pm **Quiz Bowl Competition**
Location: **Augusta B,C,D**

8:00am - 4:00pm **Quiz Bowl Break / Recruitment Fair**
Location: **Augusta Prefunction Foyer**

8:30am - 9:30am **SAEA Past Presidents Forum**
Location: **Augusta 3**

8:30am - 10:00am **JMP: Job Market Paper Competition**
Location: **Augusta G**
Session Chair: **Marco Palma**, Texas A&M

Improving Ecosystem Services from US Agriculture: Yield Reserve vs. Land Retirement

Chenyang Hu, Darrell Bosch, Wei Zhang
Virginia Tech, United States of America; huchenyang@vt.edu

Measuring the Effects of Agricultural Supply News Shocks

Jungkeon Jo, Michael K. Adjemian
University of Georgia, United States of America; jj80151@uga.edu

Cover Crop and Termination Date Effects on Wheat Forage Yield and Profitability in Oklahoma

Yuan Zhang
Oklahoma State University, United States of America; aiden.zhang@okstate.edu

Food Price Inflation in the United States as a Complex Dynamic Economic System

Faith Parum
Texas A&M University, United States of America; faparum@tamu.edu

ANALYZING THE USE AND INTENSITY OF CARBON FARMING PRACTICES IN THE U.S.

Raymond Thomas, Timothy Dalton
Kansas State University, United States of America; rjthomas@ksu.edu

EXAMINING THE ROLE OF AGRO-ENVIRONMENTAL CONDITIONS IN VULNERABILITY TO POVERTY IN NIGER

Armine Poghosyan, Elinor Benami
Virginia Tech, United States of America; armine@vt.edu

Role of Cold Storage Stocks, Capacity and Meat Prices in the Presence of Global Shocks to the U.S. Agricultural and Food System: A Dynamic and Causal Inference Analysis

Hannah Hawkins, Senarath Dharmasena
Texas A&M University, United States of America; hbhawk@tamu.edu

8:30am - 10:00am

OS01: 2024 Southern Crops Economic Outlook

Location: **Augusta F**
Session Chair: **William Elliott Maples**, Mississippi State University
Session Chair: **Francisco Abello**, Texas A&M AgriLife Extension

2024 Southern Crops Economic Outlook

William Elliott Maples¹, Franisco J. Abello², Hunter Biram³, Wendiam Sawadgo⁴, Grant Gardner⁵, Aaron Smith⁶, Kimberly Morgan⁷

¹Mississippi State University; ²Texas A&M University; ³University of Arkansas; ⁴Auburn University; ⁵University of Kentucky; ⁶University of Tennessee; ⁷University of Florida; will.maples@msstate.edu, fjabello@tamu.edu, hbiram@uada.edu, wendiam@auburn.edu, grant.gardner@uky.edu, aasron.smith@utk.edu, kimorgan@ufl.edu

8:30am - 10:00am

SP01: Risk Management

Location: **Augusta E**

Session Chair: **Christopher Boyer**, University of Tennessee

Livestock Risk Protection Loss Ratio Analysis

Christopher Boyer¹, Eunchun Park², Charley Martinez¹

¹University of Tennessee; ²University of Arkansas; cboyer3@utk.edu

Sensitivity of U.S. Farm Income to Macroeconomic Shocks

Madhav Regmi, Maryfrances Miller, Sawssan Boufous, Adedapo Alawode

New Mexico State University; mregmi@nmsu.edu

Moral Hazard in Agricultural Insurance – Evidence from A Non-Voluntary Sow Insurance Program in China

Xudong Rao¹, Qingyin Cai², Yuehua Zhang³

¹Texas A&M University, United States of America; ²University of Minnesota, United States of America;

³Zhejiang University, China; xudong.rao@ag.tamu.edu

Price Risk Management Use Impact on Technical Efficiency for Cattle Producers

Sourav Barua, Christopher N. Boyer, Karen L. DeLong, Andrew P. Griffith, Charles C. Martinez

University of Tennessee, Knoxville, United States of America; sbarua1@vols.utk.edu

Incentives and payment mechanisms in preference elicitation

Andreas Drichoutis¹, Marco Palma², Paul Feldman²

¹Agricultural University of Athens; ²Texas A&M University, United States of America;

paul.feldman@ag.tamu.edu

RISK PERCEPTION AND FLOOD INSURANCE: SPECIAL REGRESSOR APPROACH

Lalita Adhikari, Craig Landry

University of Georgia, United States of America; clandry@uga.edu

Improving NASS Yield Information

William HENCE DUNCAN¹, Chris Boyer¹, Aaron Smith¹, Will Maples², Eunchun Park³

¹The University of Tennessee Knoxville, United States of America; ²Mississippi State University;

³University of Arkansas; wilhdunc@vols.utk.edu

8:30am - 10:00am

SP02: Agribusiness Finance & Farm Management

Location: **Chastain C**

Session Chair: **Steven Richards**, Clemson University

Farm Resilience, Management Practices, and Producer Sentiment: Segmenting U.S. Farms Using Machine Learning Algorithms

Margaret Ann Lippsmeyer, Michael Langemeier, James Mintert, Nathan Thompson

Purdue University; mlippsme@purdue.edu

Recalibrating the Pace of Growth under Changing Macroeconomic Conditions: A Comparative Period Analysis by Application of Sustainable Growth Challenge Paradigm

Maoyong Zheng, Cesar L. Escalante

University of Georgia, United States of America; mz06144@uga.edu

The Cooperative Challenge: Results from Cooperative Development Surveys in the Southeastern US

Steven Richards, Nathan Smith, William Hardee, William McLean

Clemson University, United States of America; stricha@clemson.edu

How does plant capacity affect agricultural processor's profits? A quasi-experimental design using international price shocks

Yetian Cai

University of Florida, United States of America; cai.yetian@ufl.edu

The Effects of “Fulfilment by Amazon” Fees on Product Prices and Sales Ranks

Chinonso Etumnu

Kentucky State University, United States of America; chinonso.etumnu@ksu.edu

Evaluating the Impact of Precision Agriculture on the US Secondary Combine Market

Robert Ellis, Chris Ortiz, Tyler Mark

University of Kentucky, United States of America; Robert.Ellis@uky.edu

An Analysis of Change in Depreciation Rates In Tractor Machinery Over Time

Christopher Michael Ortiz, Steve Buck

University of Kentucky, United States of America; cmor223@uky.edu

8:30am - 10:00am

SP03: Demand and Price Analysis

Location: **Augusta A**

Session Chair: **Glynn Tonsor**, Kansas State Univ.

Are Some Analysts Superior at Forecasting World Grain Supplies?

Emmie Noyes, Andrew McKenzie, Eunchun Park

University of Arkansas, United States of America; enoyes@uark.edu

Economics of Global Food Demand: How Income Growth and Prices Influence Food Spending Across Countries

Savant Nzayiramy, Dr. Andrew Muhammad

University of Tennessee, Knoxville, United States of America; snzayira@vols.utk.edu

Plant-Based versus Animal-Based Proteins: Does it have to be Either/Or?

Saroj Adhikari¹, Brandon R. McFadden¹, Trey Malone¹, Jayson L. Lusk²

¹University of Arkansas, United States of America; ²Oklahoma State University, United States of America; asaroj@uark.edu

Ranking Heterogenous US Consumer Beef Attribute Preferences

Ted C. Schroeder, **Eliyasu Y. Osman**, Phillip A. Lancaster, Brad J. White

Kansas State University, United States of America; eosman@ksu.edu

Impacts of Resistance Training and Fitness on U.S. Protein Demand

Glynn Tonsor, Justin Bina

Kansas State Univ., United States of America; gtonsor@ksu.edu

Media, Muscle, and Meat: Assessing Fitness Media's Role in U.S. Meat Demand

Glynn Tonsor, Justin Bina, Brian Keith Coffey

Kansas State University, United States of America; jbina97@ksu.edu

8:30am - 10:00am

SP04: Regional & Rural Economic Development

Location: Chastain A

Session Chair: Brittany Cole, University of Tennessee at Martin

Does a low population translate to low liquidity? A Comparison of Municipal Bond Trading in Rural and Non-Rural Communities

Brittany Cole, Laura Hatch, Joseph Mehlhorn

University of Tennessee at Martin, United States of America; bcole12@utm.edu

Disclosing the Overlooked Factors Influencing Expenditure of Inbound Tourists in Taiwan: The Application of Machine Learning Approach

Chun-Fu Hsu¹, Pei-Yu Chi², Man-Keun Kim³

¹National Chung Hsing University, Taiwan; ²Feng Chia University, Taiwan; ³Utah State University; hsudino85@gmail.com

Energy Burden Disparity: Comparing Rural and Urban Areas in the U.S

Ayoung Kim, Seong Yun

Mississippi State University, United States of America; seong.yun@msstate.edu

Consumer's willingness to pay for broadband in the United States: A Meta-analysis.

Sabina Regmi¹, Ayoung Kim¹, Devon Mills¹, John J. Green^{1,2}

¹Mississippi State University, United States of America; ²Southern Rural Development Center; sr2117@msstate.edu

THE RELATIONSHIP BETWEEN BROADBAND AND SOCIOECONOMIC HEALTH: A CASE STUDY IN APPALACHIA

Kyra Palange, Michael Vassalos, David Brian Willis

Clemson University, United States of America; Mvassal@clemson.edu

The Effect of Lending Deserts and Mobile Banking Access on Business Birth and Death

Katherine L. Welch, Dayton M. Lambert, Andrew Vanleuven

Oklahoma State University, United States of America; katwelc@okstate.edu

Can Government Program Improve Water Quality and Local Businesses in Rural Areas? Evidence from USDA Rural Development's Loan and Grant Program

James Davis¹, Robert Dinterman², Krishna P Paudel¹, Anil Rupasingha¹

¹USDA ERS, United States of America; ²USDA RD, United States of America; james.davis2@usda.gov

10:00am - 10:15am

Break 1

10:15am - 11:45am

OS02a: Preparing for a Career in Extension

Location: Augusta G

Session Chair: Jordan Shockley, University of Kentucky

Preparing for a Career in Extension

Jordan Shockley¹, Steven Klose²

¹University of Kentucky, United States of America; ²Texas A&M AgriLife Extension;
jordan.shockley@uky.edu, steven.klose@ag.tamu.edu

10:15am - 11:45am

OS03a: Teaching In-Action: Syllabus Modernization, Gaming, and Building the Classroom Community

Location: **Augusta F**

Session Chair: **Hannah Elizabeth Shear**, Oklahoma State University

Teaching In-Action: Syllabus Modernization, Gaming, and Building the Classroom Community

Hannah Elizabeth Shear¹, Chelsea Arnold², Logan Britton³, Mykel Taylor⁴

¹Oklahoma State University, United States of America; ²West Texas A&M University, United States of America; ³Kansas State University, United States of America; ⁴Auburn University, United States of America; hshear@okstate.edu

10:15am - 11:45am

SP05: Nutrition, Health & Food Policy 2

Location: **Augusta E**

Session Chair: **Peter Wui**, University of Arkansas Pine Bluff

Psychological Well-Being and Child Tax Credit: Comparative Assessment of Payment Approaches

Teshager Sisha, Shuoli Zhao, Yuqing Zheng

University of Kentucky, United States of America; teshager@uky.edu

Evaluating the Socioeconomic Impact on Marijuana Consumption Following Legalization

Peter Wui, Gangcheol Seo

University of Arkansas Pine Bluff, United States of America; wuiy@uapb.edu

Comparative Analysis of the Effect of US Localities' Calorie Dense Beverage Tax, Proposed Nutrient Dense Beverage Subsidies, and the Supplemental Nutrition Assistance Program (SNAP) on Consumers' Demand and Calorie Consumption Change of Calorie Dense Beverages

Jillian Paige Gilchrist, Senarath Dharmasena

Texas A&M University, United States of America; jillian.gilchrist19@gmail.com

Assessing Consumers' Valuation for Front-of-Package Health Labels Under New FDA Proposed Guidelines

Jianhui Liu¹, Bachir Kassas¹, John Lai¹, Fang Di¹, Rodolfo M. Nayga²

¹University of Florida, United States of America; ²Texas A&M University, United States of America;
jianhuiliu@ufl.edu

PUBLIC PERCEPTION ON AGE RESTRICTIONS FOR CBD PURCHASES IN THE UNITED STATES

Omolola Bankole¹, Adam Rabinowitz¹, Ben Campbell², Tyler Mark³, Brandon McFadden⁴

¹Auburn University, United States of America; ²University of Georgia; ³University of Kentucky;
⁴University of Arkansas; ozb0022@auburn.edu

Trends in prices of routinely recommended vaccines in the United States

Andrew John Leidner, RajReni Kaul

CDC National Center for Immunization and Respiratory Diseases; aleidner@cdc.gov

Do consumers know what food labels on products mean?

Samuel Joseph Francis, Felipe Silva, Michael Vassalos

Clemson University, United States of America; sjfranc@clemson.edu

10:15am - 11:45am

SP06: Production Economics 3

Location: **Chastain C**

Session Chair: **Lawton Lanier Nalley**, University of Arkansas

Segregating Rice Varieties for Milling and Marketing: The Potential Impact on Producer Returns and Export Market Opportunities

Alvaro Durand-Moart¹, Lawton Lanier Nalley¹, Griffiths Atungulu², Kaushik Luthra², Robin January²

¹Department of Agricultural Economics, University of Arkansas, United States of America; ²Department of Food Science, University of Arkansas, United States of America; adurand@uark.edu

Estimation of Global Crop Area Elasticities: A Bayesian Approach

Sunghwi Woo¹, Wyatt Thompson¹, Shawn Arita²

¹University of Missouri, United States of America; ²Department of Agriculture, United States of America; swhfw@missouri.edu

On the Productivity and Technical Efficiency of the Puerto Rican Queen Conch Fishery

Juan Agar¹, Daniel Solís²

¹NOAA, Southeast Fisheries Science Center, Miami, FL, USA; ²Agribusiness Program, Florida A&M University, Tallahassee, FL, USA; daniel.solis@famu.edu

An Evaluation of Production Efficiency and Management in Soybeans

Colton Tuff Johnson, Hannah E. Shear, Josh Lofton

Oklahoma State University, United States of America; tuff.johnson@okstate.edu

Improving Organic Vegetable Profitability by Identifying Cost-Effective Technologies that Optimize Production and Whole-Farm Planning in the Southeast

Aaron Turner, Anastasia Thayer, Felipe de Figueiredo Silva, David Brian Willis

Clemson University, United States of America; fdsilva@clemson.edu

Economic Development of the U.S. Cattle Industry and Its Impact on the Environment: A Case Study through the Kuznets Hypothesis

Buddhika Patalee, Hyeon Jeong, Tyler Mark

University of Kentucky, United States of America; pataleema@uky.edu

ANALYZING PRODUCER WELFARE IMPLICATIONS OF CARBON FARMING PRACTICES

Raymond Thomas, Timothy Dalton

Kansas State University, United States of America; rithomas@ksu.edu

10:15am - 11:45am

SP07: International Development 2

Location: **Augusta A**

Session Chair: **Alexis Villacis**, Arizona State University

Session Chair: **Genti Kostandini**, The University of Georgia

A Bayesian Triple-Hurdle Model of Smallholder Maize Market Participation in Zambia

John N. Ng'ombe¹, Able Bwalya², Rebecca N. Kiwanuka-Lubinda², Kwabena Nyarko Addai³, Joohun Han⁴

¹North Carolina A&T State University, United States of America; ²University of Zambia, Zambia; ³Griffith University, Australia; ⁴University of Arkansas at Fayetteville, United States of America; ingombe@ncat.edu

A Machine Learning-based Exploration of Resilience in East African Households

Alexis Villacis¹, Syed Badruddoza², Ashok Mishra¹

¹Arizona State University; ²Texas Tech University; alexis.villacis@asu.edu

Crop and Livestock Diversity, Commercialization, and Food Security on Household Farms in Mali

Sibbir Ahmad, Melinda Smale, Veronique Theriault

Michigan State University, United States of America; ahmadsib@msu.edu

The Effect of the Feed-the-Future Project on Child Malnutrition in Northern Ghana

Nadiatu Issaka

West virginia university, United States of America; ni00011@mix.wvu.edu

Corruption and Agricultural Total Factor Productivity: Evidence from Low-Income Countries

Laxmi Ojha¹, Genti Kostandini²

¹The University of Georgia, United States of America; ²University of Wisconsin; gentik@uga.edu

Market Channel and Heterogeneous Storage Behavior in Response to Multiple Risks: The Case of Nigerian Maize Traders

Daye Kwon, Lenis Saweda O. Liverpool-Tasie, Thomas Reardon

Michigan State University, United States of America; kwondaye@msu.edu

Adoption and intensity of use of personal protective equipment by agricultural pesticide handlers: Empirical evidence from Peruvian agriculture

Michael Owusu Ansah, Theodoros Skevas

University of Missouri, Columbia - Division of Applied and Social Sciences, United States of America; michael.owusuansah@missouri.edu

10:15am - 11:45am

SP08: Labor Economics

Location: **Chastain A**

Session Chair: **Joohun Han**, University of Arkansas

Occupational safety issues and labor challenges in small meat processing plants: A systematic review

Luis Chavez Gil, Maryfrances {Frannie} Miller, Carrie Shaver, Isela Garcia

New Mexico State University, United States of America; lchavezg@nmsu.edu

Measuring job risks when hedonic wage models do not do the job

Susana Ferreira¹, Sara Martínez de Morentin², Amaya Erro²

¹The University of Georgia, United States of America; ²Universidad Pública de Navarra; sferreir@uga.edu

The Impact of Disability on Labor Market and the Factors Shaping Disability Rates in Arkansas

Joohun Han, Alvaro Duannd-Morat

University of Arkansas; joohunh@uark.edu

Assessing the Wage Effects of Undocumented Immigrant Status

Xiurui Cui, Zhengfei Guan

University of Florida, United States of America; xiurui.cui@ufl.edu

Defining Green Occupations: A Task-based Approach

Yang Cheng, Susan E Chen

Virginia Tech, United States of America; yangcheng@vt.edu

The Impact of the Farm Workforce Modernization Act on Dairies in the Southern U.S.

Cameron Gunn Castillo, Bart Fischer, Joe Outlaw, George Knapek, Marc Raulston, Brian Herbst

Texas A&M University, United States of America; ccastillo.518@tamu.edu

U.S. Consumers' Perceptions on Agricultural Labor Supply

Vitalis Othuon, Benjamin Campbell, William Secor, Daniel Tregeagle

University of Georgia, Athens, United States of America; vitalisothuon@gmail.com

10:15am - 11:45am

SP09: Livestock Economics

Location: **Chastain E**

Session Chair: **Elsbeth Jane Hamilton**, University of Arkansas

Impacts of Changes in Cattle Performance on Feedlot Profitability and Estimated Net Greenhouse Gas Emissions

Merri Day¹, Ted Schroeder¹, David Renter², Taylor McAtee²

¹Kansas State University, Department of Agricultural Economics; ²Kansas State University, Department of Diagnostic Medicine/Pathobiology; meday@ksu.edu

Improving Estimates of Beef Cattle Demand for Feed Grains

Halle Jai Roper, Hannah E Shear, Derrell Peel, Kellie Raper

Oklahoma State University, United States of America; hroper@okstate.edu

Willingness to pay of Mexican Producers for Sorghum-based Feed

Henry Flowers, Amin Modhurima, Syed Badruddoza, Olga Murova

Texas Tech, United States of America; hfoflower@ttu.edu

Heterogenous impacts of disease and climate factors on global poultry production

Elsbeth Jane Hamilton, Jada Thompson

University of Arkansas, United States of America; ejhamilt@uark.edu

Balancing Social and Business Goals of Policymaking: The Case of the 2023 AEWR Increases

Shree Ram Acharya, Cesar Escalante

University of Georgia, United States of America; acharyashreeram23@gmail.com

A geospatial analysis of Arkansas broiler production risks and costs

Kylie Roesler, Jada Thompson

University of Arkansas, Agricultural Economics & Agribusiness; karoesle@uark.edu

Understanding Producers' Valuation of Milking Automatization

Grace Melo, Jingyuan Zhang

Texas A&M, United States of America; jingyuan_zhang@tamu.edu

12:00pm - 12:45pm

56th SAEA Annual Meeting Luncheon

Location: **Peachtree Ballroom**

12:45pm - 1:30pm

Break 2

1:30pm - 3:00pm

3MT: Three Minute Thesis Competition

Location: **Augusta G**

Session Chair: **Xuqi Chen**, University of Tennessee

Cattle Producer's Use of Price Risk Management

Sourav Barua, Christopher N. Boyer, Karen L. DeLong, Andrew P. Griffith, Charles C. Martinez

University of Tennessee, Knoxville, United States of America; sbarua1@vols.utk.edu

Improving NASS Yield Information

William HENCE Duncan¹, Chris Boyer¹, Aaron Smith¹, Will Maples², Eunchun Park³

¹The University of Tennessee Knoxville, United States of America; ²Mississippi State University;

³University of Arkansas; wilhdunc@vols.utk.edu

Exploring heterogenous motives behind animal welfare management: a focus in the final marketing stage of fed cattle

Samantha Ayoub

Department of Agricultural and Resource Economics, Colorado State University;

samantha.ayoub@colostate.edu

Occupational Injury and Labor Issues in Niche Meat Processing Plants in New Mexico: A Qualitative Review

Luis Chavez Gil, Francine Giotto, Maryfrances Miller, Carrie Shaver, Isela Garcia

New Mexico State University, United States of America; lchavezg@nmsu.edu

Determinants of Dairy RP Selection

Wyatt A Haley, Charles Martinez

University of Tennessee, United States of America; wyaahale@vols.utk.edu

Changes in Tennessee Land

Leann Hopper, Charles Martinez, Chris Boyer

University of Tennessee, United States of America; leahopp@vols.utk.edu

The Impacts of Class-Action Lawsuits on California Glyphosate Usage

Macy L. Rosselle¹, K. Aleks Schaefer¹, Brandon R. McFadden², Hannah E. Shear¹

¹Oklahoma State University, United States of America; ²University of Arkansas, United States of America; macy.rosselle@okstate.edu

Potential of Using NASA's Soil Moisture Data as the Index for Forage Crop Insurance and Disaster Programs

Ephraim Dibue Muyombo

Oklahoma State University, United States of America; ephraim.muyombo_dibue@okstate.edu

Exploring Consumer Value of Certified Coffee from Local Shops versus National Brands

Mary Olivia Helene Broussard

Louisiana State University, United States of America; mbro254@lsu.edu

Estimating Price Transmission Between International and Domestic Orange Juice Markets

Ikeoluwa Aregbe, Derek Farnsworth, Lijun Chen

University of Florida; ikeoluwa.aregbe@ufl.edu

An Evaluation of Production Efficiency and Management in Soybeans

Colton Tuff Johnson, Hannah Shear, Josh Lofton

Oklahoma State University, United States of America; tuff.johnson@okstate.edu

1:30pm - 3:00pm

SP10: Climate and Adaptation

Location: **Augusta F**

Session Chair: **Jingfang Zhang**, Alcorn State University

Session Chair: **Amrit Shrestha**, University of Tennessee

How Accurate Are the Public's Assessment of Temperature Change?

Sheriff Hassan¹, Dayton Lambert¹, Andrew Van Leuven¹, Hank Jenkins-Smith², Joe Ripberger², Carol Silva²

¹Oklahoma State University, United States of America; ²University of Oklahoma, United States of America; sheriff.hassan@okstate.edu

Geography of Climate Change Adaptation in U.S. Agriculture

Jingfang Zhang¹, Emir Malikov², Ruiqing Miao³, Prasenjit Ghosh⁴

¹Alcorn State University; ²University of Nevada, Las Vegas; ³Auburn University; ⁴University of Southern Indiana; jzhang@alcorn.edu

Do Phone-Based Storm Emergency Alerts Save Lives?

Wentian Jiang, Mateusz Filipski

University of Georgia; wentian.jiang@uga.edu

Labor migration triggered by COVID-19 and its impact on climate change adaptation of producers in Sunsari district, Nepal

Amrit Shrestha

University of Tennessee, United States of America; akash9320@gmail.com

FROM AWARENESS TO ACTION: INFLUENCE OF CLIMATE CHANGE PERCEPTION ON ADAPTATION CHOICES IN NIGER.

Aashma Tiwari, Mateusz Filipski, Gregory Colson, Cesar L. Escalante

University of Georgia, Athens, Georgia, United States of America; at55146@uga.edu

Warming temperature and adaptation through agricultural technology: Evidence from rice variety choice in Japan

Kenichi Kuroiwa¹, Kentaro Kawasaki²

¹University of Georgia, U.S.; ²University of Tokyo, Japan; kk04872@uga.edu

Exploring the potential of developing a spatial avoided forest conversion mechanism in the Edisto River Basin, South Carolina

Lucas Clay, Joan U. Ureta, Marzieh Motallebi
Clemson University, United States of America; clay9@clemson.edu

1:30pm - 3:00pm

SP11: Farm Management

Location: **Augusta H**

Session Chair: **Savannah Taylor Jones**, The University of Tennessee

Participation and Effectiveness Measures of Dairy Margin Coverage Insurance

Savannah Taylor Jones, Charles Canuto Martinez, Christopher Neal Boyer

The University of Tennessee, United States of America; savtjone@vols.utk.edu

Are Anti-corporate Farming Statutes Affecting Farmland Prices?

Festus Attah¹, Mykel Taylor¹, Wendong Zhang²

¹Auburn University; ²Cornell University; fsa0005@auburn.edu

Challenges Facing Texas Small Producers: Evidence from 2017-2019 survey study

Isaac Sitienei¹, Ken Mix², Nicole Wagner²

¹Austin Peay State University, United States of America; ²Texas State University, United States of America; sitieneii@apsu.edu

Are U.S. Government Programs Reaching Minority Farmers? Evidence from the Paycheck Protection Program Approval Rates

Kevin Nooree Kim¹, Ana Claudia Sant'Anna²

¹Mississippi State University; ²West Virginia University; kevin.kim@msstate.edu

Commodity Price Effects on Agricultural Land Values in Wisconsin

Angela Jungbluth¹, Satheesh Aradhyula²

¹Oklahoma State University; ²University of Arizona; angela.jungbluth@okstate.edu

Perceptions and Property Values: The Impacts of Medical Marijuana on Rural Oklahoma

Sidany Barnett Hilburn, Brian Whitacre, Andrew Van Leuven

Oklahoma State University, United States of America; sidany.hilburn@okstate.edu

1:30pm - 3:00pm

SP12: Food and Agricultural Marketing 3

Location: **Chastain C**

Session Chair: **Carola Grebitus**, Arizona State University

Determinants of consumption of sustainably-produced meat and meat alternatives in the U.S.

Amrit Dumre¹, Deepthi Kolady¹, Carola Grebitus², Mariam Ishaq³

¹oklahoma state university, United States of America; ²Arizona State University, USA; ³South Dakota State University,USA; amrit.dumre@okstate.edu

Designing price policies to achieve a healthy diet in Latin America

Grace Melo¹, Noe Nava²

¹Texas A&M, United States of America; ²ERS, USDA; gmelo@tamu.edu

Factors Impacting Tennesseans' Purchase of Local Products

Alicia Rihn, **Hannah Williams**, Ricky Chen, Karen DeLong

University of Tennessee, United States of America; hwilli72@vols.utk.edu

Californians' Willingness to Accept to reduce animal welfare by removing the ban on caged eggs

Atiyeh Sakeni¹, Jerrod Penn¹, John Lain², Wuyang Hu³

¹Louisiana State University, United States of America; ²University of Florida; ³Ohio State University; asaken1@lsu.edu

Cage Free, Free Range, or Pasture Raised? An Evaluation of Consumer Preferences Toward Egg Production Labels

Olivia Lauren Gibson, Joseph Wyatt Lucas, Ryan Patrick Murphy, Azita Varziri, Shuoli Zhao

University of Kentucky, United States of America; olgi222@uky.edu

The Squeeze on Orange Juice Industry: A Deep Dive into Supply Chain Challenges and the Impact of Citrus Greening

Yi Li¹, Zhengfei Guan²

¹Food and Resource Economics Department, University of Florida, United States of America; ²Food and Resource Economics Department, Gulf Coast Research and Education Center, University of Florida, United States of America; quanz@ufl.edu

Examining Food Buyer's Willingness to Participate in Blockchain System

Devashish Bhandari, Prabodh Illukpitiya

Tennessee State University, United States of America; dbhanda1@my.tnstate.edu

1:30pm - 3:00pm

SP13: Food and Agricultural Marketing

Location: **Augusta A**

Session Chair: **Valerie Kilders**, Purdue University

Tennesseans' Perceptions of and Willingness-to-pay for Nutrient Enhanced Microgreens

Alicia Rihn, Pralhad Bajain, Kellie Walters, Natalie Bumgarner

University of Tennessee, United States of America; pbajain@vols.utk.edu

Unveiling Consumer Preferences and Willingness to Pay for Fresh Food Boxes Using Decision Tree Analysis

Zuyi Wang¹, Man-Keun Kim², Shang-Ho Yang³

¹Clemson University; ²Utah State University; ³National Chung Hsing University, Taiwan; mk.kim@usu.edu

Quantifying Demand and Willingness to Pay for Local Food Production

Mario Ortez, Taylor Thompson, Valerie Kilders, Nicole Widmar

Purdue University, United States of America; vkilders@purdue.edu

CONSUMER PREFERENCE AND WILLINGNESS TO PAY(WTP) FOR FDA CERTIFIED CBD OIL: EVIDENCE FROM CHOICE EXPERIMENT

Mounata Dahal¹, Benjamin Campbell¹, Adam Rabinowitz², Tyler Mark³, Brandon McFadden⁴

¹University of Georgia, United States of America; ²Auburn University, United States of America;

³University of Kentucky, United States of America; ⁴University of Arkansas, United States of America; md65464@uga.edu

Preferences for Takeaway Food Containers: National Capital Region of India

FNU Geetanjali, Craig Landry

University of Georgia, United States of America; gg40380@uga.edu

Consumer Willingness to Pay for Food Products Displaying a Black-Owned Production Label

Logan Moss¹, Brandon McFadden¹, Lawton Lanier Nalley¹, Norbert Wilson²

¹Department of Agricultural Economics and Agribusiness, University of Arkansas; ²Duke Divinity School and Sanford School of Public Policy, Duke University; lgmoss@uark.edu

Consumer preference for goat meat under health and environment-related information

Binod Khanal, Sunil Dhoubhadel

Pvamu, United States of America; bikhanal@pvamu.edu

1:30pm - 3:00pm

SP14: Ag Finance

Location: **Chastain A**

Session Chair: **Makenzie Grace McJunkins**, University of Arkansas

Commercial Banks vs. Credit Unions: The Brazilian Case

Loredany Rodrigues², Marcelo Ferreira², Yuri Calil¹, Mateus Neves², Raquel Pontes³

¹Texas A&M University, United States of America; ²Universidade Federal de Viçosa; ³Universidade do Vale do Rio dos Sinos - Unisinos; yuri.calil@ag.tamu.edu

Sowing Seeds of Resilience: Leveraging Non-Traditional Credit for a Diversified Agri-food Economy

Makenzie G McJunkins, Trey Malone

University of Arkansas, United States of America; [mgmcjunk@uark.edu](mailto:mgmjunc@uark.edu)

Do USDA Reports and Firm-level Announcements Substitute or Complement Each Other?

Anil Banstola, Berna Karali

University of Georgia, United States of America; anil.banstola@uga.edu

Small farmer's choice in traditional and non-traditional credit sources in Tennessee

Purushottam Dhungana¹, Aditya Khanal²

¹Graduate Research Assistant, Tennessee State University, United States of America; ²Associate Professor, Tennessee State University, United States of America; pdhungan@my.tnstate.edu

Empirical Distribution Functions for Farmland Derivative Stocks

Shaharia Jaman Bhuiyan, Hector O. Zapata

Louisiana State University; sbhuiy2@lsu.edu

The Political Economy of Venture Capital in Agri-Food Tech: Recommendations for Fostering Regional Innovation Ecosystems

Mohammad Ismile Hossain, Jeda M. Thompson, Trey Malone

University of Arkansas, Fayetteville, United States of America; mh181@uark.edu

Examining Land Access and Succession Among Beginning, Young, and Minority Farmers in Tennessee

Christian Alexander Smith, Abdelaziz Lawani

Tennessee State University, United States of America; csmit199@my.tnstate.edu

1:30pm - 3:00pm

SP15: Natural Resource Economics

Location: **Chastain E**

Session Chair: **Nicolas Quintana Ashwell**, Mississippi State University

Valuing the Groundwater in the Mississippi Valley Alluvial Aquifer in Arkansas

Kent Kovacs, Hunter Biram

University of Arkansas, United States of America; hbiram@uada.edu

Diffusion of Water-Conserving Irrigation Technology in the Mississippi Delta

Eugene Nii Otokunor Oku, Nicolas Quintana-Ashwell, Seong Yun, Curt Lacy, Jason Krutz

Mississippi State University, United States of America; eno30@msstate.edu

Do agricultural production and ecological footprint follow Kuznet's curve hypothesis? Insights from the Third Industrial Era

Ali Yousuf, Syed Badruddoza, Modurima Dey Amin

Texas Tech University, United States of America; alyousuf@ttu.edu

The cost of mismanaging crop heat stress with irrigation

Nicolas Efrain Quintana Ashwell, Amer Al-Sudani, Drew Gholson

Mississippi State University, United States of America; n.quintana@msstate.edu

Coping with Climate Change: A Study of Reservoir Capacity Optimization and Water Resource Management?

Yuan Niu¹, Farhed Shah², Rocky Talchabhadel³

¹Department of Agricultural and Resource Economics, University of Tennessee; ²Department of Agricultural and Resource Economics, University of Connecticut; ³Department of Civil and Environmental Engineering, Jackson State University; yuan.niu8086@gmail.com

Examining the Nonlinear Relationship between Precipitation and Crop Yield: A Semi-parametric Approach

Xingguo Wang, Chengcheng Fei, Henry Bryant

Texas A&M University, United States of America; xgwangus@tamu.edu

Impact of time discounting on supply of forest carbon credits

Seong-Hoon Cho, James C. Mingie

University of Tennessee, United States of America; scho9@utk.edu

1:30pm - 3:00pm

SP16: International Trade 2

Location: **Chastain J**

Session Chair: **Stephen Devadoss**, Texas Tech University

Economy-Wide Effects of Bovine Spongiform Encephalopathy in Brazil

Tais Menezes¹, Amanda Countryman¹, Amy Hagerman², Sílvia Miranda³

¹Colorado State University, United States of America; ²Oklahoma State University, United States of America; ³University of São Paulo, Brazil; tais@colostate.edu

Export competitiveness of U.S. sorghum and its determinants: a novel dynamic ARDL approach

Tanmoy Kumar Ghose¹, Darren Hudson¹, Md. Emran Hossain²

¹TEXAS TECH UNIVERSITY, United States of America; ²TEXAS STATE UNIVERSITY, United States of America; tghose@ttu.edu

Low Prices and High-Risk Premia: Implications of Trade Policy Contagion on US Commodity Markets

Kwame Addey, Frayne Olson

North Dakota State University, United States of America; kwame.addey@ndus.edu

Exploring the Collaborations within Agricultural Value Chains in Developing Countries.

Vikas Kumar Mishra¹, Ariun Ishdorj^{1,2}, Elizabeth Tabares², Roger Norton², Anna Yeritsyan³

¹Department of Agricultural Economics, Texas A&M University, College Station, Texas, United States of America; ²Norman Borlaug Institute for International Agriculture, Texas A&M University, College Station, Texas, United States of America.; ³Department of Veterinary Pathology, Texas A&M University, College Station, Texas, United States of America; mishra16vk@tamu.edu

Enhancing Sustainable Agricultural Intensification Practices Adoption Through Knowledge Transfer: Evidence from Ghana

Iddrisu Yahaya¹, Timothy Dalton², Anthony Baffoe-Bonnie³, Jason Bergtold², P.V. Vara Prasad²

¹CSIR-SARI, Ghana; ²Kansas State University, United States of America; ³Texas A&M University, United States of America; anthon.baffoe-bonnie@ag.tamu.edu

Is Globalization Driving the Decline of Farm Labor's Share of Income in Agrifood Value Chains? Evidence from Cross-Country Analysis

Mohammed Beroud, Titus O. Awokuse

Department of Agricultural, Food and Resource Economics, Michigan State University, East Lansing, Michigan, USA; beroudmo@msu.edu

Immigration Enforcement and Agricultural Trade

Samyam Shrestha

University of Georgia, United States of America; samyam@uga.edu

1:30pm - 3:00pm

SP17: Nutrition, Health & Food Policy 3

Location: **Augusta E**

Session Chair: **Dayton Lambert**, Oklahoma State University

Session Chair: **Henry Bryant**, Texas A&M University

Optimizing Fresh Produce Inventory Management: A Tax Credit-Based Approach for Grocery Retailers

Edwin Coleman, Bailey Norwood, Dayton Lambert

Oklahoma State University, United States of America; edcoleman@okstate.edu

How Did the Expiration of Emergency Allotments Affect Fruit and Vegetable Purchases of SNAP Households?

Junhua Huang^{1,2}, Pourya Valizadeh², Henry Bryant^{1,2}, Samuel Priestley¹

¹Texas A&M university, United States of America; ²Agricultural & Food Policy Center; quinn0808@tamu.edu

Internal migration as a predictor of food security in the United States

Oscar Sarasty, Modhurima Amin

Agricultural and Applied Economics, Texas Tech University, United States of America; Oscar.S.Sarasty@ttu.edu

Evaluating the Impacts of Household Participation of SNAP and WIC Programs on Poverty

Osei-Agyeman Yeboah¹, Saleem Shaik², Godwin Korku Agbenyezi³

¹North Carolina Agricultural and Technical State University, United States of America; ²Economic Research Service (ERS), USDA; ³North Carolina Agricultural and Technical State University, United States of America; gagbenyezi@aggies.ncat.edu

Spillover Effect of Food Safety Label Information

Md Azhar Uddin, Zhifeng Gao, Derek Farnsworth, Jared Gars
University of Florida, United States of America; mdazharuddin@ufl.edu

Food Identity in the Mississippi River Delta: Barriers and Opportunities

Courtney Fay Cooper¹, Trey Malone¹, Marcus A Coleman²
¹University of Arkansas; ²Tulane University; cfcoper@uark.edu

Impact of Food Prices, Availability, and Safety on Diet Diversity and Nutrition-Balance: Evidence from Low-Income Developing Country

Aditya Khanal¹, Ashok Mishra²
¹Tennessee State University, United States of America; ²Arizona State University, United States of America; akhana1@tnstate.edu

3:00pm - 3:30pm

Break 3

3:30pm - 5:00pm

OS04a: Best Practices for Reviewing Manuscripts. Hints and Tips from Current Editors

Location: **Augusta G**
Session Chair: **Michael Vassalos**, Clemson
Session Chair: **Jerrold M Penn**, LSU

Best Practices for Reviewing Manuscripts. Hints and Tips from Current Editors

Michael Vassalos¹, Jerrold M Penn², Wuyang Hu³, Christopher Boyer⁴, Di Fang⁵
¹Clemson University; ²Louisiana State University & LSU AgCenter; ³The Ohio State University;
⁴University of Tennessee-Knoxville; ⁵University of Florida; hu.1851@osu.edu, cboyer3@utk.edu,
difang@ufl.edu

3:30pm - 5:00pm

Quiz Bowl Winners vs Legends

Location: **Augusta C**

3:30pm - 5:00pm

SP18: Livestock Economics 2

Location: **Augusta F**
Session Chair: **Rebekah Rose ONeal**, University of Arkansas

Hog Price Distributions in Negotiated and Formula Sales

Haylee Ann Ferguson, Colby James Hough, Charles Martinez, Chris Boyer
University of Tennessee, United States of America; hferqus8@vols.utk.edu

Hog Carcass Determinants on Average Lean Percentage Across Marketing Types

Colby James Hough, Charles Martinez, Chris Boyer, Haylee Ann Ferguson
University of Tennessee, United States of America; chough3@vols.utk.edu

Pearl millet (*Pennisetum americanum*) as an alternative warm-season annual forage: an economic feasibility study for West Tennessee

Katherine Witbeck, Rachna Tewari, Isaac Lepcha
The University of Tennessee at Martin, United States of America; katewitb@ut.utm.edu

Cattle Are What They Eat? A Consumer Analysis of Beef Produced from Barley Fodder-Fed Cattle Compared with a Conventional Mixed Ration

Ryan Feuz¹, Dillon Feuz¹, Kara Thornton¹, Audrey Lidgard¹, Zachary Crump¹, Silvana Martini¹, Haotian Cheng², Chandler Stafford¹, Sulaiman Matarneh¹
¹Utah State University; ²University of Arizona; ryan.feuz@usu.edu

Economic Implications of Incentivizing Quality in the US Beef Cattle Industry

Katherine M. Doumit, Ted C. Schroeder, Dustin L. Pendell

Kansas State University, United States of America; kdoumit@ksu.edu

Bullwhip Supply Chain Implications for Regional Beef Processing Expansion

Rebekah Rose ONeal, James Mitchell, Trey Malone

University of Arkansas, United States of America; ro007@uark.edu

Tracking feeder cattle basis in South Carolina: it's not all transportation costs

Nikolas Lewis Berg, Mathew Fischer, Anastasia Thayer

Clemson University, United States of America; nlberg@clemson.edu

3:30pm - 5:00pm

SP19: Production Economics 1

Location: **Augusta H**

Session Chair: **Leann Hopper**, University of Tennessee

Estimating Stochastic Production Function with Linear Inequality Constraints

Yuyuan Che¹, Sujit K. Ghosh², Roderick M. Rejesus³

¹Department of Agricultural and Applied Economics, Texas Tech University; ²Department of Statistics, North Carolina State University; ³Department of Agricultural and Resource Economics, North Carolina State University; yuyuan.che@ttu.edu

Changes in Tennessee Land

Leann Hopper, Charles Martinez, Chris Boyer

University of Tennessee, Knoxville; leahopp@vols.utk.edu

Crop price and Climate Impacts on Corn and Soybean Yield and Acreage Responsiveness

Suhwan Lee, Patrick Westhoff

University of Missouri, United States of America; slht7@umsystem.edu

Economic Analysis of Cover Crop Adoption Under Risk Aversion: A Farm-Scale Simulation for Corn, Peanut, and Cotton.

Kelvin Kwadio Bobbie¹, Yangxuan Liu¹, Mary Logan Tostenson², Wesley M. Porter², Kaylyn Groce Reagin², Peyton Sapp³, Jason Mallard³, Seth McAllister³

¹University of Georgia, Department of Agricultural and Applied Economics.; ²University of Georgia, Crop and Soil Science Department.; ³University of Georgia, College of Agriculture and Environmental Sciences, Extension Service.; kkb33532@uga.edu

Factors that Influence the Location Decisions of Dairy Farms

Syed Badruddoza, Brittney Couch, **Stephen Devadoss**

Texas Tech University, United States of America; stephen.devadoss@ttu.edu

Precision Agriculture and Drones

Sarahi Salinas, Dominique Gumirakiza

Western Kentucky University, United States of America; sarahisalinas@icloud.com

Assessing Medium-Term Economic Impacts of Cover Crop Adoption

Yifei Zhang¹, Yuyuan Che², Roderick M. Reyes¹, Michel A. Cavigelli³, Kathryn E. White³, Serkan Aglasan⁴, Lynn G. Knight⁵, Curt Dell⁶, David Hollinger⁷, Erin D. Lane⁷, Steven B. Mirsky³

¹Department of Agricultural and Resource Economics, North Carolina State University, Raleigh, NC; ²Department of Agricultural and Applied Economics, Texas Tech University, Lubbock, TX; ³Agricultural Research Service (ARS), U.S. Department of Agriculture, Beltsville, MD; ⁴Department of Agricultural and Resource Economics, University of Arizona, Tucson, AZ; ⁵Natural Resources Conservation Service (NRCS), U.S. Department of Agriculture, Milton, VT; ⁶Agricultural Research Service (ARS), U.S. Department of Agriculture, University Park, PA; ⁷Northeast Climate Hub and US Forest Service, U.S. Department of Agriculture, Durham, NH; yzhan242@ncsu.edu

3:30pm - 5:00pm

SP20: Crop Production and Marketing

Location: **Augusta E**

Session Chair: **Yunsun Park**, Mississippi State University

Session Chair: **Hunter D. Biram**, University of Arkansas

Managing Nitrogen Carryover for Winter Wheat Production Systems

Enoch Adom¹, Dayton M. Lambert¹, B. Wade Brorsen¹, Philip D. Alderman¹, Jon T. Biermacher²

¹Oklahoma State University, United States of America; ²North Dakota State University, United States of America; enoch.adom@okstate.edu

Field Profitability Implications of Different Soil Sampling Densities for Potassium Fertilizer Management: A Multiple Field Case Study

Bayarbat Badarch¹, Michael Popp², Aurelie Poncet³, Nathan Slaton⁴

¹University of Arkansas, United States of America; ²University of Arkansas, United States of America;

³University of Arkansas, United States of America; ⁴University of Arkansas, United States of America; bbadarch@uark.edu

Crop Acreage Portfolio Analysis of Introducing More Hemp in Kentucky

Yunsun Park¹, Seong Yun¹, Tyler Mark², Brandon McFadden³, Brandy Phipps⁴, Craig Schluttenhofer⁴, Waldemar Rossi⁵

¹Mississippi State University; ²University of Kentucky; ³University of Arkansas; ⁴Central State University;

⁵Kentucky State University; yp187@msstate.edu

The Economics and Productivity of GMO, NonGMO, and Organic Corn Production in 2021; Focusing on HT Corn Production

Richard Frederick Nehring¹, Sam Bailey², Dan Bonin³, Andrew Swanson⁴

¹United States Department of Agriculture, United States of America; ²United States Department of Agriculture, United States of America; ³United States Department of Agriculture, United States of America; ⁴University of California, Davis; Richard.nehring@usda.gov

Value of the Agricultural Aerial Application Industry in the United States Delineated by Crops Grown and by State: A Counterfactual Study

Kaitlynn Hughes¹, Senarath Dharmasena², Daniel Martin³

¹Texas A&M University, United States of America; ²Texas A&M University, United States of America;

³USDA-ARS, United States of America; kaitlynn.hughes@tamu.edu

Irrigation Best Management Practices and Water Use Efficiency: A Study of Irrigated Yield Contestants

Eva Stephani Caroline¹, Qiuqiong Huang¹, Christopher G. Henry^{1,2}, Shahin Bahrami³

¹University of Arkansas; ²UADA Rice Research and Extension Center; ³Texas A&M University; escaroli@uark.edu

3:30pm - 5:00pm

SP21: Ag Policy

Location: **Chastain C**

Session Chair: **Charles C. Martinez**, University of Tennessee

Determinants of Dairy RP Selection

Wyatt A Haley, Charles Martinez

University of Tennessee, United States of America; wyaahale@vols.utk.edu

An Evaluation of Updating Base Acres on Southern Crops

Alexis Nicole Ghormley, Joe L. Outlaw, Bart L. Fischer, George M. Knappek, David P. Anderson

Texas A&M University, United States of America; alynicoleg@tamu.edu

Enhancing Farmers' Profits and the Environment: A Study of Renewable Energy in Maryland

Elizabeth Anne Thilmany¹, Jada Thompson², Paul Goeringer¹

¹University of Maryland - College Park; ²University of Arkansas; thilmany@umd.edu

Assessing Farmers' Willingness-to-Accept for Purchase of Agricultural Conservation Easement (PACE) Program in Tennessee

Savannah Rae Lewis, Abdelaziz Lawani

Tennessee State University, United States of America; slewis63@my.tnstate.edu

Optimal Spatial Targeting of Agricultural Conservation Program Payments for Cover Crop Adoption

Le Chen, Seong Hoon Cho, James Mingie

University of Tennessee-Knoxville, United States of America; lchen62@utk.edu

Policy for Payments of Agricultural Conservation Policy Adoption Using NPV with Uncertainty Model

Tanvir Hossain, Dr. Naveen Adusumilli

Louisiana State University, Baton Rouge, LA 70803; thossa4@lsu.edu

Estimating the Effect of Opioids on Agricultural sector: Application of Price index

Ting Cao, Charles Moss

University of Florida, United States of America; ting.cao@ufl.edu

3:30pm - 5:00pm

SP22: Environmental and Non Market Valuation

Location: **Augusta A**

Session Chair: **Mykel Taylor**, Auburn University

Assessing potentials of farm-based carbon credits created by cover crops in cotton production

Sunjae Won¹, Seong-Hoon Cho², Mykel Taylor¹

¹Auburn University, Auburn, AL; ²University of Tennessee, Knoxville, TN; szw0161@auburn.edu

Ecosystem Services and Trade-offs: Analyzing the Impacts of Land Use Land Cover Changes in the Santee River Basin, South Carolina

Miah Maye Mendoza Pormon¹, Joan U. Ureta¹, Marzieh Motalebi^{1,2}

¹Department of Forestry and Environmental Conservation, Clemson University, South Carolina; ²Baruch Institute of Coastal Ecology and Forest Science, Clemson University, South Carolina; mpormon@g.clemson.edu

How cost assumptions affect conservation decisions

James C. Mingie, Sreedhar Upendram, Seong-Hoon Cho

University of Tennessee, United States of America; jmingie@vols.utk.edu

Measuring Extreme Weather and its Effects on Agriculture in Kentucky, USA

Munib Inam, Steven Buck

University of Kentucky, United States of America; munib.inam@uky.edu

The Economic Value of Tarpon Fisheries in Southwest Florida

Julian J Hwang¹, Alexandre Magnier², H Shelton Weeks²

¹West Virginia University, United States of America; ²Florida Gulf Coast University;
julian.hwang@mail.wvu.edu

Access to Public trust resources: A Discrete Choice Analysis in Pinellas County, Florida.

Ashutosh Poudel, Craig E Landry

University of Georgia, United States of America; poudel.ashutosh@uga.edu

Willingness to Pay for Risk Reduction from Coastal Hazards Using Green and Built Infrastructure

Nicholas Lee Bradley, Craig E. Landry, Jon Calabria

University of Georgia, United States of America; nicholas.bradley@uga.edu

3:30pm - 5:00pm

SP23: Production Economics 2

Location: **Chastain A**

Session Chair: **Agness Mzyece Mzyece**, California State University Stanislaus

Economic Impact Study on Cervid Farming in Kentucky

Hunter Maxwell Groves, Jean Dominique Gumirakiza

Western Kentucky University, United States of America; hunter.groves940@topper.wku.edu

Factors Affecting Farmer Adoption of Unmanned Aerial Vehicles: Current and Future

Tong Wang, Hailong Jin

South Dakota State University, United States of America; tong.wang@sdstate.edu

Economic Analysis of the Prospects of Mung Bean Cultivation in the Southeastern Region

Satya Tiwari, Prabodh Illukpitiya, Fisseha Tegegne, Dafeng Hui

Tennessee State University, United States of America; stiwari@my.tnstate.edu

Introducing a New Index of Diversification

Agness Mzyece Mzyece

California State University Stanislaus, United States of America; amzyece@csustan.edu

Impact of birds on corn and soybean yield: A national scale analysis based on fixed effect models.

Nabin Bhandari, Ruiqing Miao

Auburn University, Alabama, USA; nzb0063@auburn.edu

Stochastic Optimization of a Sustainable Aviation Fuel Supply Chain from Winter Canola in Tennessee

Kumar Bolakhe, Edward Yu, Virginia Sykes

University of Tennessee, United States of America; kbolakhe@vols.utk.edu

ROLE OF COOPERATIVES IN TECHNICAL EFFICIENCY AND TECHNOLOGICAL CHANGE IN DAIRY LIVESTOCK FARMING IN MINAS GERAIS, BRAZIL

Érica Basílio Tavares Ramos¹, Marcelo Dias Paes Ferreira², Mateus de Carvalho Reis Neves^{2,3}

¹Universidade Federal de Goiás - GO, Brazil; ²Universidade Federal de Viçosa - MG, Brazil; ³Clemson University; mateus.neves@ufv.br

3:30pm - 5:00pm

SP24: International Trade

Location: **Chastain E**

Session Chair: **Trey Malone**, University of Arkansas

Evaluating the Effectiveness of USMCA for Increasing Intra-Continental Dairy Trade

Jack Steven Myers¹, Jason Holderieath², Trey Malone¹

¹University of Arkansas, United States of America; ²Northwest Missouri State University, United States of America; jmyers@uark.edu

Impacts of Trade Exposure on Crop Profitability in the United States

Jiyeon Kim, Jisang Yu

Department of Agricultural Economics, Kansas State University; jiyeon@ksu.edu

Impacts of Climate Change on Local and Global Rice Trade: Lessons from Bangladesh and Vietnam

Willy Mulimbi, Khondoker Mottaleb, Alvaro Durand-Morat

University of Arkansas, United States of America; wmulimbi@uark.edu

The Impact of China's Meat Sector Growth on U.S. Grains and Oilseeds Exports

Sunil P. Dhoubhadel¹, William Ridley², Binod Khanal¹

¹Prairie View A&M University, United States of America; ²University of Illinois Urbana-Champaign, United States of America; spdhoubhadel@pvamu.edu

Trade and Development Implications of the U.S. African Growth and Opportunity Act

Derick Taylor Adu, Wenying Li, Wendiam Sawadgo

Auburn University, United States of America; dta0009@auburn.edu

Quantifying Trade Creation and Trade Diversion due to Free Trade Agreements.

Osei-Agyeman Yeboah¹, Saleem Shaik², Paul Esiga Menlah³, Nicholas Mensah Amoah⁴

¹North Carolina A & T State University, United States of America; ²Economic Research Service (ERS). USDA; ³North Carolina A & T State University, United States of America; ⁴North Carolina A & T State University, United States of America; pemenlah@aggies.ncat.edu

How does immigration policy affect the U.S-Mexico trade of tomatoes?

Wen Liu, Jaclyn Kropp, Gulcan Onel

University of Florida, United States of America; wliu3@ufl.edu

3:30pm - 5:00pm

SP25: Food and Agricultural Marketing - Consumer Preferences

Location: **Chastain J**

Session Chair: **Ekaterina Stoliarova**, Arizona State University

Session Chair: **Jaden Hall**, Tennessee State University

Retail Food Waste and Consumer Quality Preferences

Ekaterina Stoliarova, Carola Grebitus

Arizona State University, United States of America; estolyar@asu.edu

Consumer Preferences for Hemp-Fed Aquaculture

Jillian Hyink¹, Brandon McFadden¹, Brandy Phipps², Tyler Mark³, Waldemar Rossi⁴, Craig Schluttenhofer², Seong Do Yung⁵

¹University of Arkansas; ²Central State University; ³University of Kentucky; ⁴Kentucky State University;

⁵Mississippi State University; hyink@uark.edu

Evaluating Milk and Plant-based Milk Alternatives: Consumption Trends and Relationships

Yingxin Tan¹, Miyeon Son¹, Jayson Lusk²

¹Purdue University, United States of America; ²Oklahoma State University, United States of America;

tan421@purdue.edu

U.S Consumers' Willingness to Pay for Hemp-based Products

Jaden Hall

Tennessee State University, United States of America; jhall59@my.tnstate.edu

Consumer Preferences and Willingness to Pay for Sustainable Food: A Meta Analysis

Dinglin Duan¹, Yefan Nian², Md Azhar Uddin¹, Zhifeng Gao¹

¹University of Florida; ²Clemson University; d.duan@ufl.edu

Heterogeneity in Nutritional Perception During and After the Pandemic

Suraj Gurung, Lijun Angelia Chen

University of Florida, United States of America; surajgurung@ufl.edu

Farmers Market Vendors & Economic Stability

Clarissa Anne Mackey, Jean Dominique Gumirakiza

Western Kentucky University, United States of America; clarissa.mackey455@topper.wku.edu

3:30pm - 5:00pm

SP26: Teaching, Communication & Extension

Location: **Chastain F**

Session Chair: **J. Ross Pruitt**, University of Tennessee at Martin

Session Chair: **Scott Parrott**, University of Tennessee at Martin

Impact of Study Abroad: Case Study of Rural College

Lucia Ona

Abraham Baldwin Agricultural College, United States of America; lona@abac.edu

Using Regenerative Artificial Intelligence to Aid Classroom Retention

J. Ross Pruitt, Anthony Delmond, Sandy Mehlhorn, Diana Watson

University of Tennessee at Martin, United States of America; rpruit10@utm.edu

Farmer Needs Assessment: Extension's Pathway for Revitalizing Agrarian Economy

Lila B. Karki¹, Enrique N. Escobar²

¹University of Maryland Eastern Shore, United States of America; ²University of Maryland Eastern

Shore, United States of America; lkarki@umes.edu

Peer Advisory Groups Methodology and Results

Francisco Abello¹, Tim Steffens²

¹Texas A&M AgriLife Extension, United States of America; ²West Texas A&M University;

fjabello@tamu.edu

Grow Louisiana: An Interdisciplinary Program Between Horticulture and Agricultural Economics

Maria Bampasidou¹, Carl Motsenbocker²

¹LSU AgCenter; Agricultural Economics and Agribusiness, United States of America; ²LSU AgCenter; School of Plant, Environmental and Soil Sciences, United States of America;
mbampasidou@agcenter.lsu.edu

High Impact and High Returns: Translating Textbook Learning to Tangible Career Skills Using Student Managed Investment Funds

Scott Parrott, Brittany Cole, Joey Mehlhorn

University of Tennessee at Martin, United States of America; sparrott@utm.edu

5:15pm - 7:00pm

SAEA Business Meeting and Awards Program

Location: **Augusta Room 1/2/3**

6:30pm - 8:30pm

Student Reception - Hard Rock Cafe

Date: Tuesday, 06/Feb/2024

8:00am - 5:00pm	Registration - Tuesday Location: The Overlook
8:30am - 10:00am	SAEA Lifetime Achievement Awards Presentations Location: Augusta Room 1/2/3
10:00am - 10:30am	Break 4
10:30am - 12:00pm	ES: Emerging Scholars Location: Chastain G Session Chair: John D Anderson , University of Arkansas
10:30am - 12:00pm	OS05a: Causal Inference, Machine Learning and Data Science Applications in Agricultural and Applied Economics and Policy Modeling Location: Chastain D Session Chair: Senarath Dharmasena , Texas A&M University Session Chair: Faith Parum , Texas A&M University
	Causal Inference, Machine Learning and Data Science Applications in Agricultural and Applied Economics and Policy Modeling Senarath Dharmasena , Faith Parum , Hannah Hawkins , Tian Su Texas A&M University, United States of America; sdharmasena@tamu.edu , faparum@tamu.edu , hbhawk@tamu.edu , statship222@tamu.edu
10:30am - 12:00pm	OS06a: 2024 Southern Livestock Economic Outlook Location: Chastain H Session Chair: Francisco Abello , Texas A&M AgriLife Extension Session Chair: William Elliott Maples , Mississippi State University
	2024 Southern Livestock Economic Outlook Francisco Abello ¹ , William E Maples ² , David Anderson ¹ , Tyler W. Cozzens ³ , Dennis Brothers ⁴ , Brian Mills ² , Andrew Griffith ⁵ , Kenny Burdine ⁶ ¹ Texas A&M AgriLife Extension, United States of America; ² Mississippi State University; ³ Livestock Marketing Information Center; ⁴ Auburn University; ⁵ University of Tennessee; ⁶ University of Kentucky; fjabello@tamu.edu , david.anderson@ag.tamu.edu , tyler.cozzens@lmic.info , dlb0018@auburn.edu , b.mills@msstate.edu , agriff14@utk.edu , kburdine@email.uky.edu
10:30am - 12:00pm	SP27: Demand and Price Analysis - Research Methods Location: Chastain E Session Chair: Rodolfo Nayga , texas a&m Session Chair: Nathan Kemper , University of Arkansas
	A Comparative Analysis of Price Imputation Methods in Demand System Estimation Using Scanner Data Lingxiao Wang , Oral Capps Texas A&M, United States of America; lingxiao.wang@tamu.edu
	A question for all seasons: Indirect questioning for normative and non-normative attributes Pratikshya Silwal ¹ , Bailey Norwood ² ¹ Oklahoma State University, United States of America; ² Oklahoma State University, United States of America; psilwal@okstate.edu
	Machine Learning Algorithms for Vector Autoregressive Models to Evaluate the Linkages across the Value Chain in Geotemporal Separated Markets Xavier Villavicencio , Samuel D. Zapata , Anderson Xicay Texas A&M University, United States of America; xavier.villavicencio@ag.tamu.edu
	The Impacts of Message Framing on Consumer Preferences for Gene Editing Glory Esohe Okpiaifo ¹ , Bachir Kassar ¹ , John Lai ¹ , Lisa House ¹ , Rodolfo M Nayga Jr ² ¹ University of Florida; ² Texas A & M University; g.okpiaifo@ufl.edu

Market Integration in the World Rice Export Markets: Application of Dynamic and Causal Inference Methods

James Chen Samaroo, Senerath Dharamesena

Texas A&M University, United States of America; j.samaroo404@tamu.edu

Rising minimum wages: Challenges to the US produce industry

A.Malek Hammami¹, Zhengfei Guan^{1,2}, Tian Xia³, Xiurui Cui²

¹University of Florida-Gulf Coast Research And Education Center, United States of America; ²University of Florida- Food and Resource Economics Department; ³Kansas State University, Department of Agricultural Economics; ahammami@ufl.edu

Investigating Consumer Choices in Tree Nut Purchases: A Random-Forest Approach

Hoyeon Jeong, Saber Feizy, Buddhika Patalee, Yuqing Zheng

University of Kentucky, United States of America; saberfeizy@uky.edu

10:30am - 12:00pm

SP28: Natural Resource Economics 2

Location: **Chastain I**

Session Chair: **Susana Ferreira**, The University of Georgia

Producers' Perception of Water Shortage Risks and the use of Irrigation Practices

Gertrude Dotse Bampoe, Qiuqiong Huang, Christopher Garrett Henry

university of Arkansas, United States of America; gd009@uark.edu

Embracing Mangroves: Do Mangroves Hold Value for Florida Coastal Property Owners?

Swaty Kajaria, Susana Ferreira, Yukiko Hashida

University of Georgia, United States of America; swaty.kajaria@uga.edu

Confronting Aquatic Invaders: Assessing Public Perceptions and Willingness To Pay to Control Hydrilla in Florida

Abhishek Rajan¹, Olesya Savchenko²

¹University of Florida, United States of America; ²University of Florida, United States of America; a.rajan@ufl.edu

Managing Energy Usage for Groundwater Irrigation in India

Kuhelika Ghosh

University of Georgia, United States of America; Kuhelika.Ghosh@uga.edu

Optimal Control of Joint Soil Capital and Groundwater Stock

Lyazzat Sanat

North Carolina State University, United States of America; lsanat@ncsu.edu

Effect of Equity and Recreation Demand in Southern California : Across Race and Ethnicity

Elijah Tolulope Babawale, CRAIG E LANDRY

University of Georgia, United States of America; etb71317@uga.edu

Economic Importance of Hunting for Rural Households Amidst Shocks : Evidence from 23 countries

Prachi Jhamb, Susana Ferreira

University of Georgia, United States of America; pj40553@uga.edu

12:00pm - 1:30pm

Break 5

1:30pm - 3:00pm

OS07a: Advice for Early Career Success from the 2024 SAEA Emerging Scholars

Location: **Chastain G**

Session Chair: **Jerrod M Penn**, LSU

Advice for Early Career Success from the 2024 SAEA Emerging Scholars

Jerrod M Penn

Louisiana State University and LSU Ag Center, United States of America; jpenn@agcenter.lsu.edu

1:30pm - 3:00pm

OS09a: Unlocking the Power of Predictive Analytics and Machine Learning in Business Using R and Python: A Workshop for Applied Economics Graduates

Location: **Chastain J**

Session Chair: **Krishna P Paudel**, USDA ERS

1:30pm - 3:00pm

SP29: Nutrition Health & Food Policy

Location: **Chastain D**

Session Chair: **Rachna Tewari**, The University of Tennessee at Martin

Effect of New Market Tax Credit on the local food environment

Ummey Honey, Joel Cuffey

Auburn University, United States of America; uzh0003@auburn.edu

School nutrition programs as tools to improve direct marketing of locally grown fresh produce

Sydney Campbell¹, Rachna Tewari¹, Allison Zelenski¹, Samantha Goyret², Caroline Ideus², Jessica Crews Garcia¹

¹The University of Tennessee at Martin, United States of America; ²The Northwest Tennessee Local Food Network; scampb80@ut.utm.edu

Machine Learning for Obesity Prediction: Analyzing the Obesity Issue in Turkey

Abdulkaki Bilgic¹, **Wojciech J. Florkowski²**, Faruk Urak³

¹College of Economics and Administrative Sciences, Bilecik Seyh Edebali University, Turkey; ²University of Georgia, United States of America; ³College of Agriculture, Atatürk University, Turkey; wojciech@uga.edu

SNAP Benefit Cycles and Mental Health Outcomes: Evidence from Nutrition Incentive Program Participants

Elizabeth Ann Byrne, Joel Cuffey

Auburn University, United States of America; eab0161@auburn.edu

Willingness to accept cost for the adoption of food safety practices on fresh produce systems by producers: A case from Nepal

Sujan Ghimire¹, Aditya Khanal¹, Ram Hari Timilsina², Purushottam Dhungana¹, Rabin Aryal²

¹Tennessee State University, United States of America; ²Agriculture and Forestry University, Nepal; sghimir1@tnstate.edu

1:30pm - 3:00pm

SP30: Livestock Economics 3

Location: **Chastain H**

Session Chair: **Matthew Miguel Melchor**, Kansas State University

Livestock producer perceptions on the environment and adoption of conservation practices

Anastasia Thayer, Felipe Silva, Michael Vassalos, Nathan Smith, Zuyi Wang

Clemson University, United States of America; awthave@clemson.edu

Hedonic modeling in campus bull sale auctions

Matthew M. Melchor, Logan L. Britton, Dustin L. Pendell, Ted C. Schroeder
Kansas State University, United States of America; mmelch5@ksu.edu

Fed Cattle Price Relationships

Charles C. Martinez¹, Chris Boyer², Eunchun Park³, Ford Ramsey⁴

¹University of Tennessee, United States of America; ²University of Tennessee, United States of America; ³University of Arkansas, United States of America; ⁴University of Georgia, United States of America; cmart113@utk.edu

A Hedonic Model of Bred Heifer Prices: EPD, Breed, and Reputation Effects

Isaac David Wingert, Ted Schroeder, Joe Parcell

Kansas State University, United States of America; isaacwingert@ksu.edu

Comprehensive Analysis of Consolidation Effects in the US Hog Industry

Gaurab Aryal¹, **Andrew Keller**², Krishna P Paudel²

¹Washington University, St. Louis; ²USDA ERS, United States of America; andrew.keller@usda.gov

A two-tier hedonic price frontier analysis to maximize the value of feeder cattle transactions

Samuel D. Zapata, Francisco Abello, David Anderson, Marco Palma

Texas A&M University, United States of America; samuel.zapata@ag.tamu.edu

The Economic Impact of Syndromic Surveillance for Detection in a Simulated Foot-and-Mouth Disease Outbreak in the Texas Panhandle

Bailey Ann Samper, Blaine Johnson, Ryan Blake Williams

Texas Tech University School of Veterinary Medicine, United States of America;
Bailey.Samper@ttu.edu

1:30pm - 3:00pm

SP31: Crop Production

Location: **Chastain E**

Session Chair: **Lyubov A Kurkalova**, North Carolina A&T State University

Evaluating the Economic Implications of Novel Citrus Greening Control Treatments

Anderson E. Xicay¹, Samuel D. Zapata¹, Kranthi K. Mandadi¹, Veronica Ancona², Freddy A. Ibanez¹

¹Texas A&M University; ²Texas A&M University-Kingsville; anderson.xicayxico@ag.tamu.edu

Economics of fallowing cropland in North Carolina

Lyubov A Kurkalova

North Carolina A&T State University, United States of America; lakurkal@ncat.edu

An Economic Analysis of Selected IPM Practices in Tomato Production in South Carolina

Rohini Sonti¹, R. David Lamie², Yefan Nian², Matthew . A Cutulle³

¹Clemson University, United States of America; ²Clemson University, United States of America;
³Clemson University, United States of America; rsonti@clemson.edu

To Fumigate or Not: Optimal Nematode Management Strategy for Florida Tomato Growers

Yi Li¹, Kuan-Ming Huang², Zhengfei Guan³, Johan DeSaeger⁴, Hung Xuan Bui⁴

¹Food and Resource Economics Department, University of Florida, United States of America;
²Department of Agricultural Economics, Mississippi State University, United States of America; ³Food and Resource Economics Department, Gulf Coast Research and Education Center, University of Florida, United States of America; ⁴Entomology and Nematology Department, Gulf Coast Research and Education Center, University of Florida, United States of America; yi.li1@ufl.edu

Is a yield slowdown on the horizon? Assessing the relationship between yield and plant population in U.S. corn

Edward Perry, Amanda Tian

Kansas State University, United States of America; amandatian@ksu.edu

Relative cost of ginning cotton using Saw and High-Speed Roller Gins

Ram N Acharya¹, Carlos Armijo²

¹New Mexico State University, United States of America; ²USDA-ARS Southwestern Cotton Ginning Research Laboratory; acharyar@nmsu.edu

Specialty Crop Growers' Willingness to Pay for Risk Prediction Models

Kelvin Kofi Amon, Tara Wade

University of Florida, United States of America; Kamon@ufl.edu

1:30pm - 3:00pm

SP32: International Development

Location: **Chastain A**

Session Chair: **Fafanyo Asiseh**, North Carolina A&T State University

Empowering Smallholder Farmers: The Influence of Social Networks on Credit Access Among Rural Farmers

Fafanyo Asiseh, Obed Quaicoe, John Ng'ombe

North Carolina A&T State University, United States of America; fasiseh@ncat.edu

When Monopoly Complements Monopsony: Conceptualizing a Zero Welfare Revenue Tariff

Sheikh Emran, Andrew Schmitz

University of Florida, United States of America; emran.s@ufl.edu

Factors Influencing Cowpea Production in Ghana

Mohammed Ibrahim¹, Nalini Pattanaik¹, James Bukenya², Abdul-Rahman Yussif Seini³, Brian Cornish⁴

¹Fort Valley State University, United States of America; ²Alabama A & M University, United States of America; ³University for Development Studies, Ghana; ⁴Auburn University, United States of America; ibrahimm@fvsu.edu

Farm Wage and Rice Price Nexus: A Bangladesh Case

Khondoker Mottaleb, Alvaro Durand-Morat

University of Arkansas, United States of America; mottaleb@uark.edu

The impact of income on clean energy consumption among rural households: evidence from cooking and heating energy adoption in China

Haoyang Cui¹, Ting Meng¹, Shenggen Fan¹, Wojciech J. Florkowski²

¹College of Economics and Management, China Agricultural University; ²University of Georgia, United States of America; tmeng@cau.edu.cn

Hedging Multiple Price Risks in Crude Oil Import

Siun Lee, Dmitry Vedenov

Texas A&M University, United States of America; slee@tamu.edu

3:00pm - 3:30pm

Break 6

3:30pm - 5:00pm

OS08a: Meeting Editors of Applied Economic Perspectives and Policy (AEPP) and of Choices

Location: **Chastain G**

Session Chair: **Ruiqing Miao**, Auburn University

Meeting Editors of Applied Economic Perspectives and Policy (AEPP) and of Choices

Ruiqing Miao¹, Zhengfei Guan², Gopinath Munisamy³

¹Auburn University, United States of America; ²University of Florida, USA; ³University of Georgia, USA;
miaorong@auburn.edu, guan@ufl.edu, M.Gopinath@uga.edu

3:30pm - 5:00pm

Posters

Location: **Savannah Ballroom**

A Bayesian Stochastic Plateau Stochastic Frontier Model for Technical Efficiency

John N. Ng'ombe¹, Antony Andrews², B. Wade Brorsen³

¹North Carolina A&T State University, United States of America; ²Ajman University, United Arab Emirates; ³Oklahoma State University, United States of America; jngombe@ncat.edu

A Closer Look at School-Age Children Diet Quality by National School Lunch Program Participation Status.

Vikas Kumar Mishra¹, Ariun Ishdorj^{1,2}

¹Department of Agricultural Economics, Texas A&M University, College Station, Texas, United States of America; ²Norman Borlaug Institute for International Agriculture, Texas A&M University, College Station, Texas, United States of America; mishra16vk@tamu.edu

Assessing the Economic Implications of Changing Irrigation Demand Patterns in the Southeastern United States

Harikrishnan Santhosh, Jeffrey Mullen

University of Georgia, United States of America; hsanthosh@uga.edu

Break-even analysis of establishing a watermelon packing cooperative in southwest Oklahoma

Emmanuel Patrick Honny, Lixia H. Lambert, Rodney Holcomb, Phil Kenkel

Oklahoma State University, United States of America; emmanuel.honny@okstate.edu

Changing Market Structure in U.S. Beef Industry before and after COVID-19

GwanSeon Kim¹, Joonghyun Hwang², Jun Ho Seok³

¹Arkansas State University, United States of America; ²West Virginia University; ³Jeonbuk National University; gkim@astate.edu

Consumer preferences for using blockchain technology to track climate-smart and organic production practices

Josie Nasekos¹, Alba J. Collart¹, Elizabeth Canales², Anastasia Thayer¹

¹Clemson University, US; ²Mississippi State University, US; jnaseko@clemson.edu

Crop Farmers Willingness to Pay for Post-Harvest technologies in the Southeastern United States

Haotian Cheng¹, Rui Chen², Lucy Asare-Baah², Mengxue Li², Yaoqi Zhang³

¹University of Arizona, United States of America; ²Tuskegee University, United States of America;

³Auburn University, United States of America; rchen@tuskegee.edu

Economic Evaluation of Implementing Regenerative Agriculture Practices in the Texas Panhandle

Braeland M. Booth¹, **Bridget Guerrero**¹, **Diana Bagnall**², **Donna McCallister**³, **Mallory Vestal**¹

¹West Texas A&M University; ²Soil Health Institute; ³Texas Tech University; bbooth@wtamu.edu

Geospatial Disparities in Appalachian Food Security: A Food Availability and Accessibility Index Approach

Yang Cheng, **Naveen Abedin**, **Yunus Emre Karagulle**

Virginia Tech, United States of America; yangcheng@vt.edu

H-2B guest-worker program, regulations, and exemptions.

Maria Bampasidou

LSU AgCenter; Agricultural Economics and Agribusiness, United States of America;
mbampasidou@agcenter.lsu.edu

Investigating the Economic Impact of Dogwood Disease Management in Tennessee Nursery Industry

Kumuditha Hikkaduwa Epa Liyanage¹, **Aditya Khanal**², **Anthony Witcher**¹, **Fulya Baysal-Gurel**¹

¹Tennessee State University, Otis L. Floyd Nursery Research Center, McMinnville, Tennessee;

²Tennessee State University, Nashville, Tennessee; kchandra@tnstate.edu

Managing the water-energy- food nexus in dry regions under climate change

Riza Radmehr¹, **Samira Shayanmehr**², **Wade Brorsen**¹

¹Oklahoma State University, United States of America; ²Ferdowsi University of Mashhad, Iran;

radmehr.re67@gmail.com

On the Performance of Land Value Taxation: The Effect of Nudging and a Capitalization Externality

Joshua M. Duke¹, **TianHang Gao**², **Yanlin Zhu**¹

¹Auburn University, United States of America; ²University of Delaware graduate; yzz0230@auburn.edu

Risk Evaluation of Cotton Grown in Thermo-Limited Regions

Paige Diane Holbrooks¹, **Dr. Mallory Vestal**¹, **Dr. Bridget Guerrero**¹, **Dr. Bill Golden**²

¹West Texas A&M University, United States of America; ²Kansas State University, United States of America; pholbrooks@wtamu.edu

SUR Thing: Analyzing Southern Land Cover Change

Benjamin Liam Koob, **Christopher N. Boyer**, **Charles C. Martinez**

Department of Agricultural & Resource Economics, University of Tennessee; bkoob@vols.utk.edu

The impacts of Class-Action Lawsuits on California Glyphosate Usage

Macy L. Rosselle¹, **K. Aleks Schaefer**¹, **Brandon T. McFadden**², **Hannah E. Shear**¹

¹Oklahoma State University, United States of America; ²University of Arkansas, United States of America; macy.rosselle@okstate.edu

Toxicity Exposure of Agricultural Workers: Organic versus Conventional Food Production

Adrew Dilley¹, Brandon R. McFadden¹, Aleks Schaefer²

¹University of Arkansas, United States of America; ²Oklahoma State University, United States of America; dilley@uark.edu

Understanding the New Revolution in Agriculture: The Transition to Online Farmers Markets

Harrison Clark, Ricky Chen

University Of Tennessee, Knoxville, United States of America; hclark24@vols.utk.edu

Weather Shocks and Cropping Patterns: Evidence from Southeastern US

Madalyn Boyd, Jingfang Zhang

Alcorn State University, United States of America; madalyn@students.alcorn.edu

An Economic Analysis of Ryegrass-Soybean Forage Production in Northeast Texas

Eduardo Jose Miranda, Jose Lopez, David Drake

Texas A&M -Commerce, United States of America; emiranda9@leomail.tamuc.edu

Analyzing Economic and Financial Feasibilities of Two Rain-Water Harvesting Systems in the Eastern Kentucky Region

Vijay Subramaniam, Austin Canaday

Morehead State University, United States of America; ajcanaday@moreheadstate.edu

Assessing Tennessee's Emerging Circular Bio-Economy

Aisling Grace Hagan, David Hughes, T. Edward Yu

University of Tennessee; aisghaga@vols.utk.edu

Assessment of Economic and Environmental Impact of Novel Coronavirus (SARS-CoV-2) in Agricultural Processing and Manufacturing Sectors in Tennessee

Devashish Bhandari, Prabodh Illukpitiya, Satya Tiwari, Doc Lap Tran

Tennessee State University, United States of America; dbhanda1@my.tnstate.edu

Determining Cattle Farm Exposure to Basis Risk in Arkansas Counties Through PRF

Walker Bradley Davis, Lawson Connor

University of Arkansas, United States of America; wbdavis@uark.edu

Effect of Weather Shocks on Crop Abandonment: Evidence from Southeastern US

Amber Jones, Jingfang Zhang

Alcorn State University, United States of America; amberjones@students.alcorn.edu

Grain Sorghum Production Trend Analysis in Texas under Declining Ogallala Aquifer

Tania Islam, Lal Khan Almas, Bridget Guerrero, Chelsea Arnold

West Texas A&M University, United States of America; lalmas@wtamu.edu

PRECOMMITMENTS AND HABIT FORMATION IN SWEETENER CONSUMPTION

Vardges Hovhannisyan¹, Stephen Devadoss²

¹University of Wyoming, United States of America; ²Texas Tech University; vhovhann@uwyo.edu

Sensitivity of biogas generation support systems to electricity price fluctuations

Anita Bednarek¹, Anna M. Klepacka¹, Wojciech J. Florkowski²

¹Institute of Economics and Finance, Warsaw University of Life Sciences, Poland; ²University of Georgia, United States of America; anna_klepacka@sqqw.edu.pl

The Evolving Landscape of Hemp Acreage in the Southern United States: 2019-2022

Elizabeth Anne Thilmany¹, Paul Goeringer¹, Tyler Mark², Aaron Smith³, Jennifer Zwagerman⁴

¹University of Maryland - College Park; ²University of Kentucky; ³The University of Tennessee; ⁴Drake University; thilmany@umd.edu

The Livestock Forage Disaster Program in the Southeast

Daniel Braeden Mull, Anastasia Thayer, Adam J. Kantrovich, Nathan Smith

Clemson University; dmull@g.clemson.edu

U.S. Consumers' Use and Spending On Fresh Culinary Herbs

Carlos Rosales¹, Alicia Rihn¹, Bridget Behe², Kellie Walters¹, Roberto Lopez²

¹University of Tennessee, United States of America; ²Michigan State University, United States of America; croales@vols.utk.edu

Understanding causes of and developing programs to address food insecurity for first generation college students on a R1 campus

Madison Price, Jennie Sheerin Popp, Nathan Kemper, Louise Hancox

University of Arkansas, United States of America; mpprice@uark.edu

Ambiguity, Date Labels and Food Waste

Pritam Mitra¹, Ruiqing Miao¹, Norbert Wilson²

¹Auburn University, United States of America; ²Duke Divinity and Sanford School of Public Policy, Duke University; pzm0051@auburn.edu

Estimating Economic Benefits of Mung Bean as a Cover Crop

Satya Tiwari, Prabodh Illukpitiya, Dharma Pitchay, Devashish Bhandari, Doc Lap Tran

Tennessee State University, United States of America; stiwari@my.tnstate.edu

A proposal for pricing options contracts for Brazilian cotton lint via the Brazilian Stock Exchange

Abdinardo Moreira Barreto de Oliveira¹, Yuri Calil², Luis Ribera²

¹Federal University of Technology of Paraná (UTFPR), Brazil; ²Texas A&M University, Corpus Christi, TX, USA; abdinardom@utfpr.edu.br

Are Mexican Consumers Willing to Pay for Non-GM Maize

Katie Loethen, Lawton Lanier Nalley, Brandon McFadden, Alvaro Durand-Morat, Wei Yang

University of Arkansas, United States of America; kaloethe@uark.edu

Does Climate Change Excelerate Smart Farming? - with Impact Evaluation of Smart Farm Adoption

Hyun Ju Park, Sang Hyeon Lee

Korea University, Korea, Republic of (South Korea); waturlo2kin4@korea.ac.kr

Challenges and Lesson Learned in Implementing a Student Managed Commodity Portfolio

Jacob Lee Manlove

Arkansas State University, United States of America; jmanlove@astate.edu

Effect of temperature on labor productivity: Evidence from socioeconomically vulnerable communities in the US

Dexter Wakefield, Jingfang Zhang

Alcorn State University, United States of America; dwakefield@students.alcorn.edu

Environmental Valuation of Coastal-Related Amenities in Glynn County, GA

Riley Kagele, Craig Landry, Jameson Augustin

University of Georgia, United States of America; jameson.augustin@uga.edu

Evaluating the Effect of Garden-Based Education on Willingness to Try Healthy Foods

Sierra Gregory¹, **Nathan Kemper**¹, **Ryan Patterson**², **Brandon McFadden**¹

¹University of Arkansas, United States of America; ²Apple Seeds Teaching Farm, Fayetteville, Arkansas, United States of America; smgregor@uark.edu

Exploring Consumer Preferences for Potting Mix through a Best-Worst Scaling Approach

Mallie Medlock¹, **Jerrold M. Penn**², **Heather Kirk-Ballard**²

¹Clemson University; ²Louisiana State University and LSU Ag Center; mamedlo@g.clemson.edu

Factors Influencing the Purchase Price of Non-urban Land

Elias Addom¹, **Cheryl Wachenheim**², **Erik Hanson**²

¹Auburn University, United States of America; ²North Dakota State University; eza0067@auburn.edu

Feasibility and Impact of Growers' Technology Adoption to Deal with Citrus Greening

Lei Xu, Ariel Singerman

University of Florida, United States of America; lei.xu@ufl.edu

Heifer Dynamics and Cattle Cycles

Derrell S. Peel, Kallie Clifton

Oklahoma State University, United States of America; derrell.peel@okstate.edu

How do animal welfare outcomes for fed cattle affect processing net returns: a lot-level empirical analysis

Samantha Ayoub¹, **Daniel Mooney**¹, **Stephen Koontz**¹, **John Ritten**¹, **Melissa Davis**², **Lily Edwards-Callaway**²

¹Department of Agricultural and Resource Economics, Colorado State University; ²Department of Animal Sciences, Colorado State University; samantha.ayoub@colostate.edu

Learning to Do and Doing to Learn: Teaching Rural Students About Rural Community Financing

Brittany Cole, Laura Hatch, Joey Edward Mehlhorn

University of Tennessee at Martin, United States of America; mehlhorn@utm.edu

Locavorism in Action: Floridian Consumers' Affinity for Southwest Florida-Labeled Produce

Jianhui Liu, Bachir Kassas

University of Florida, United States of America; jianhui1iu@ufl.edu

Medical Marijuana Dispensary Impacts on Local Sales Tax Revenue

Karsen Jones, Brian Whitacre

Oklahoma State University; karsen.jones@okstate.edu

Mitigating Input Price Risk Using Margin Protection Crop Insurance

Kaleem Azmat Chattha, Hunter D. Biram, Lawson Connor, Lawton Lanier Nalley

University of Arkansas, United States of America; kchattha@uark.edu

Optimal Weighting of Spatial and Time Series Information to Estimate Distributions for Crop Insurance Rating

Yuan Zhang, B. Wade Brorsen

Oklahoma State University, United States of America; aiden.zhang@okstate.edu

Recent Trends in New Mexico Farm Income: The Significance of Government Payments

Adedapo Alawode, Madhav Regmi, Sawssan Boufous, Maryfrances Miller

New Mexico State University, United States of America; adedapo@nmsu.edu

Variability in Rice Returns Using a Representative Farm Approach

Adriana Dimas¹, Michael Deliberto²

¹Graduate Student, Louisiana State University, Department of Agricultural Economics and Agribusiness;

²Associate Professor, Louisiana State University, Department of Agricultural Economics and Agribusiness; adimas2@lsu.edu

Water affordability in Tennessee: applying modern portfolio theory to determine efficient allocation of Clean Water Act funds.

Hannah Elizabeth Williams, Sreedhar Upendram, Seong-Hoon Cho, James Mingie

University of Tennessee, United States of America; hwilli72@vols.utk.edu

Beginning and Female Farmers' Productivity and Access to Credit from Traditional and Nontraditional Lenders

Denis A Nadolnyak¹, Valentina Hartarska²

¹Auburn University, United States of America; ²Auburn University, United States of America; hartavm@auburn.edu

Does prevent plant coverage incentivize opportunistic behavior?

Hunter D. Biram, Lawson Connor

University of Arkansas, United States of America; hdbiram@uark.edu

Estimating Willingness to Pay for Resistance Against Armillaria Root Rot in Peach Trees

Samuel Joseph Francis¹, Gracie Herrin¹, Michael Vassalos¹, Felipe Silva¹, Tyler Mark², Nathan Smith¹

¹Clemson University, United States of America; ²University of Kentucky; sjfranc@clemson.edu

Farmer opinions toward the H-2A Program: A national survey

Wen Liu, Gulcan Onel, Jaclyn Kropp

University of Florida, United States of America; wliu3@ufl.edu

Assessing the Efficacy of Agricultural Cold Chain Facility Expansion in China

Haotian Cheng¹, Xinqun Zhou², Jing Sun², John N. Ng'ombe³, Agness Mzyece⁴, Wei Feng², Min Zhang², Bangdi Liu²

¹The University of Arizona, United States of America; ²Academy of Agricultural Planning and Engineering, Ministry of Agriculture and Rural Affairs, China; ³North Carolina A&T State University, United States of America; ⁴California State University, United States of America; ingombe@ncat.edu

Determinants of residents' willingness to support and fund Conservation Easements in the Smoky Hill River Watershed in Kansas

Amanda{Yongxia} Tian, Jason Bergtold, Edward Perry, Allen Featherstone

Kansas State University; amandatian@ksu.edu

Examining Consumer Awareness and Willingness to Adopt Innovative Agri-Food Products in the United States: A Tobit Analysis

Vitalis Othuon, Benjamin Campbell, William Secor, Daniel Remar

University of Georgia, Athens; vitalisothuon@gmail.com

Horse Owner Preferences for Equine Veterinary Services

Olivia Lauren Gibson, Christina Jill Stowe, Shuoli Zhao, Emma Adam, McKay Charlotte

University of Kentucky, United States of America; olqi222@uky.edu

Does access to credit make it difficult or easier to do off-farm work?

Bruno de Souza Machado¹, Lorena Vieira Costa¹, Felipe de Figueiredo Silva², Mateus de Carvalho Reis Neves^{1,2}

¹Universidade Federal de Viçosa - MG, Brazil; ²Clemson University; mateus.neves@ufv.br

E-Cigarette Use and Diabetes Prevalence among US Adults

Sulakshan Neupane, Chandra Dhakal, Wojciech J Florkowski

University of Georgia, United States of America; sn14022@uga.edu

The Impact of Mindfulness Practices on Food Choices

Nilufer Cetik¹, Carola Grebitus¹, Donna Martens², Renee Shaw Hughner¹, Larissa Drescher³

¹Arizona State University, United States of America; ²Innervision Yoga, Arizona, United States of America; ³C³ team GbR, Zennerstr. 13, 81379, München, Deutschland; ncetik@asu.edu

Enhancing Tax Label Effectiveness on Sugar-Sweetened Beverages: A Choice-Enhanced Contingent Valuation Approach

Jingyuan Zhang, Rui Liu

Texas A&M University, United States of America; jayzhang1207@gmail.com

Graduate Advising in Agricultural and Applied Economics Departments: Effects of the Student-Advisor Relationship

Justin D. Bina, Glynn Tonsor, Brian Coffey, Bailey Peterson-Wilhelm
Kansas State University, United States of America; jbina97@ksu.edu

Latent classes analysis to understand heterogeneity in groundwater service values and time preferences

Kent Kovacs, Saroj Adhikari, Brandon McFadden, Rodolfo Nayga
University of Arkansas, United States of America; asaroj@uark.edu

The influence of a national change in urban tree cover on property values

Kent Kovacs¹, Eva Stephani Caroline¹, Qiuqiong Huang¹, Robert G. Haight²
¹University of Arkansas, United States of America; ²USDA Forest Service; escaroli@uark.edu

What Factors Influence the Adoption of New Production Practices: Delphi Study

Daniel Hunter Morris, John Ricketts, Thomas Broyles, Alyssa Rockers, Anthony Delmond
University of Tennessee at Martin, United States of America; dmorri25@utm.edu

3:30pm - 5:00pm

SP33: Food and Agricultural Marketing 2

Location: **Chastain D**
Session Chair: **Jerrold M Penn, LSU**

Understanding the Effects of Tactile Marketing on Preferences for Louisiana Alligator Hide

Juyoung Yoo¹, Jerrod Penn², Casey Stannard², James Fannin²
¹Louisiana State University, PhD student; ²Associate professor; jyoo9@lsu.edu

Using 3D Eye-Tracking Technology to Measure Impacts of Meat Product Label Information on Consumer Preferences

Nicholas Scribner, Rodney B. Holcomb
Oklahoma State University, United States of America; rodney.holcomb@okstate.edu

Oligopsony Power in Ghana Cocoa Sourcing

Festus Attah, Roshan Saha, Mykel R. Taylor
Auburn University, United States of America; rs0133@auburn.edu

Estimating Price Transmission Between International and Domestic Orange Juice Markets

Ikeoluwa Aregbe, Lijun Chen, Derek Farnsworth
University of Florida; ikeoluwa.aregbe@ufl.edu

An Analysis of Seasonality and Substitution in the Demand for Various Cooking Oils

Miyeon Son, Yingxin Tan, Joseph V Balagtas
Purdue University, United States of America; son89@purdue.edu

Who is the "Beneficial" Farmers' Market Consumer?

Jane Anne Arnold, Felipe De Figueiredo Silva, Mike Vassalos
Clemson University, United States of America; jarnol5@clemson.edu

3:30pm - 5:00pm

SP34: Econometrics

Location: **Chastain H**

Session Chair: **Tej Gautam**, Tuskegee University

State-space approaches to perennial crop supply response: An application to citrus greening in Florida

Daniel Tregeagle¹, **Zoe Plakias**², **Greg Astill**³

¹North Carolina State University, United States of America; ²Western Washington University, United States of America; ³Economic Research Service, United States of America; tregeagle@ncsu.edu

Effects of Considering Front-Door and Back-Door Paths in Applied Policy Modeling: An Application to the United States Food Environment

Faith Parum, **Senarath Dharmasena**

Texas A&M University, United States of America; faparum@tamu.edu

Exploring the Dynamics of Commodity Prices and Weather Anomalies using a STAR model

Leonard-Allen Quaye, **Shamar Stewart**, **Matt Holt**

Virginia Tech, United States of America; leoallen@vt.edu

Spatio-temporal analysis of AI-containing patents and human employment in the US agriculture

Fernando Brito, **Gulcan Onel**

University of Florida, United States of America; f.brito@ufl.edu

The Effect of COVID-19 on Agriculture Supply Chains: An Optimal Control Approach

Dongso Lee, **Charles B. Moss**

University of Florida, United States of America; dongso.lee@ufl.edu

Net Entry of Beginning Farmers in the U.S.: An Application of Spatial Analysis

Jingfang Zhang¹, **Valentina Hartarska**², **Denis A Nadolnyak**³

¹Alcorn State University, United States of America; ²Auburn University, United States of America;

³Auburn University, United States of America; hartavm@auburn.edu

3:30pm - 5:00pm

SP35: Consumer Demand/WTP

Location: **Chastain E**

Session Chair: **Trevor Dane Johnson**, Texas Tech University

Exploring Consumer Value of Certified Coffee from Local Shops versus National Brands

Mary Olivia Helene Broussard, **Jerrold Penn**

Louisiana State University, United States of America; mbro254@lsu.edu

Everything's brewed in Texas? Consumer willingness to pay for Texas-Brewed Beer

Trevor Johnson¹, **Qi Kang**¹, **Oscar Sarasty**¹, **Darren Hudson**¹, **Carlos Carpio**¹, **Donna McCallister**^{1,2}

¹Department of Agricultural & Applied Economics, Texas Tech University; ²Texas A&M AgriLife Research, Lubbock, Texas; trevor.d.johnson@ttu.edu

Gardening Participation and Preference for Local Food

Chenxi Hu, **Zhifeng Gao**, **Md Azhar Uddin**

Food and Resource Economics Department, University of Florida, Gainesville, FL 32611-0240, USA; chenxi.hu@ufl.edu

U.S. CONSUMERS' PERCEPTIONS AND PREFERENCES FOR BIO-BASED PLASTIC SHOPPING BAGS

Reymark Tolop Alcantara, Carlos Carpio, Darren Hudson, Chenggang Wang, Tanmoy Kumar Ghose, Shin Myat Naing, Mohammad Rezoanul Hoque

Texas Tech University, United States of America; reyalcan@ttu.edu

Consumers' Willingness to Pay for Craft Beer with FL Hops and CSR Certification

Meri Hambaryan, John Lai, Bachir Kassas

University of Florida, United States of America; m.hambaryan@ufl.edu

A meta-analysis on perception change, adoption process and willingness to pay of producers and consumers for Genetically modified crops.

Levenson Badio, Samuel Zapata

Texas A&M University, United States of America; levenson.badio@tamu.edu

Who is Willing to Pay a Premium for Leafy Greens produced by Indoor Agriculture? A Comparative Choice Experiment with U.S. Consumers

Joseph Seong

michigan state university, United States of America; seongjis@msu.edu

3:30pm - 5:00pm

SP36: Agribusiness Finance & Farm Management 2

Location: **Chastain I**

Session Chair: **Lixia H. Lambert**, Oklahoma State University

The Probability of Default for A Portfolio of Agricultural Loans

Kacie Ferch, Allen Featherstone

Kansas State University, United States of America; kferch@ksu.edu

A Crop Portfolio of Rainfed Double Cropping System in the Southern Great Plains

Lixia H. Lambert¹, Dayton M. Lambert¹, Curtis Jones²

¹Oklahoma State University; ²University of Maryland; lixia.lambert@okstate.edu

Enhancing Year-Round Profitability for Small and Medium-Scale Ranchers: An Economic Analysis of an Integrated Cattle and Mushroom Production System

Obed Quicoe¹, Fafanyo Asiseh², **Atta Selorm Shorla Kofi Aloka³**

¹North Carolina Agricultural and Technical State University, United States of America; ²North Carolina Agricultural and Technical State University, United States of America; ³North Carolina Agricultural and Technical State University, United States of America; asaloka@aggies.ncat.edu

Designing hauling and harvesting costs of energycane for a vertically integrated bioenergy farm

Prabodh Illukpitiya, Doc Lap Tran, Firuz Yuldashev

Tennessee State University, United States of America; pillukpi@tnstate.edu

A Budgetary Analysis of Food Crop Performance in the United States Virgin Islands (1978–2017)

Olubukola Omotinuke Ehinmowo¹, Adewale Isaac Olutumise², Stafford Crossman³, John N. Ng'ombe⁴, Oluyede Adeleke Aturamu⁵

¹School of Agriculture, University of the Virgin Islands, Virgin Islands, U.S.; ²Department of Agricultural Economics, Adekunle Ajasin University, Akungba - Akoko, Ondo State, Nigeria; Walter Sisulu University, Mthatha, South Africa; ³School of Agriculture, University of the Virgin Islands, Virgin Islands,

U.S.; ⁴Department of Agribusiness, Applied Economics and Agriscience Education, North Carolina A & T State University, Greensboro, U.S.; ⁵Department of Agricultural Science and Technology, Bamidele Olumilua University of Education, Science and Technology, Nigeria; olubukola.ehinmowo@uvi.edu

Analysis of Producers' Response to Maize Price Volatility in Sub-Saharan Africa: Evidence from the Autoregressive Distributed Lag (ARDL) Model

Roger Vondi Vorsah¹, Obed Quaicoe¹, Fafanyo Asiseh²

¹Department of Agribusiness, Applied Economics and AgriScience Education, North Carolina Agricultural & Technical State University, 1601 E. Market St, Greensboro, NC 27411, USA; ²College of Business and Economics, North Carolina Agricultural & Technical State University, 1601 E. Market St, Greensboro, NC 27411, USA.; rvvorsah@aggies.ncat.edu

Factors affecting the adoption of asparagus farming practices employing the VietGAP standard guidelines in Vietnam

Doc Lap Tran¹, Prabodh Illukpitiya¹, Minh Ton Nguyen², Tham Thi Dang³

¹Tennessee State University, USA; ²Nong Lam University, HCMC Vietnam; ³Ninh Thuan Rural Extension Centre, Vietnam; dtran2@tnstate.edu

3:30pm - 5:00pm

SP37: Consumer Demand/Price Analysis

Location: **Chastain A**

Session Chair: **Nathan Kemper**, University of Arkansas

Does Product Presentation Affect Consumers' Willingness to Pay? Evidence from Choice Experiments

Qi Kang¹, Trevor Johnson¹, Oscar Sarasty¹, Carlos Carpio¹, Darren Hudson¹, Donna McCallister^{1,2}

¹Department of Agricultural & Applied Economics, Texas Tech University; ²Texas A&M AgriLife Research, Lubbock, Texas; qi.kang@ttu.edu

Cultural Cognition and the Willingness to Pay for GM Foods: Lessons from Query Theory

Nathan Kemper¹, Jennie Popp¹, Rodolfo M. Nayga, Jr.²

¹University of Arkansas, United States of America; ²Texas A&M University, United States of America; nkemper@uark.edu

Consumers' Beef Purchasing Behavior Across Countries

Bhishma Dahal¹, Karen Lewis DeLong², Shijun Gao³, Carola Grebitus⁴

¹Colorado State University; ²University of Tennessee, United States of America; ³Tufts University; ⁴Arizona State University; Bhishma.Dahal@colostate.edu

Risk Perception and Consumer Preference for Genetically Modified Soybean Oil: Insights from Machine Learning

Kwame Addey, Bismark Asante

North Dakota State University, United States of America; bismark1.asante@ndus.edu

3:30pm - 5:00pm

SP38: Experimental/Behavioral Economics

Location: **Chastain J**

Session Chair: **Manuel Garcia**, Texas Tech University

Discrete/Continuous Choice Experiments: An Application to the Beef Demand in Mexico

Manuel Garcia, Carlos Carpio, Darren Hudson

Texas Tech University, United States of America; manuel.garcia@ttu.edu

Temptation, Self-Control, and Consistency of Food Choices: An Online Experiment
Pathmanathan Sivashankar, Samir Huseynov

Auburn University, Sri Lanka; sivashankar.p@hotmail.com

`Just Quit: How Hope Influences an Individual's Persistence Levels

Amelia Grace Ahles, Marco A. Palma, Paul Feldman

Texas A&M University, United States of America; aahles@tamu.edu

Unlocking Sustainability: A Study on Household Food Waste in China and Its Environmental Implications

Rui Liu, Emiliano Lopez Barrera

Texas A&M University, United States of America; liurui@tamu.edu

BARRIERS IMMIGRANT LATINX FARMERS FACE TO ENTER MARKETS IN THE MIDWEST

Ervin Leiva¹, Corinne Valdivia², Rafael Bakhtavoryan³

¹Angelo State University, United States of America; ²University of Missouri, United States of America;

³Texas A&M University - Commerce; Ervin.Leiva@angelo.edu

HOW DIETARY DIVERSITY CHANGES WITH CLIMATE VARIABLES: A GLOBAL STUDY

Kalyani Shrestha, Modhurima Amin

Texas Tech University, United States of America; kalshres@ttu.edu

6:00pm - 8:00pm

Closing Reception - College Football Hall of Fame



SOUTHERN AAAE 2024

February 4th-6th – Atlanta, Georgia



HOSTED BY:

The Department of Agricultural Leadership, Education, and Communications
University of Tennessee



AGRICULTURAL
LEADERSHIP, EDUCATION
AND COMMUNICATIONS

CONFERENCE CO-CHAIRS:

Shelli Rampold
Tyler Granberry

HELD IN CONJUNCTION WITH THE SOUTHERN ASSOCIATION OF AGRICULTURAL
SCIENTISTS MEETING



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Member Services Committee Chair: Travis Park, North Carolina State University
Program Improvement Committee Chair: Wendy Warner, North Carolina State University

SCHEDULE AT A GLANCE

Saturday, February 3, 2024		
4:00pm–7:00pm	Registration - University of Tennessee	The Overlook (6 th floor)
Sunday, February 4, 2024 (<i>University Logo Day</i>)		
8:00am–10:00am	Registration Breakfast on your own Coffee + Drink Bar – <i>Sponsored by the UT Center for Farm Management</i>	The Overlook (6 th floor) Augusta Foyer
9:00am–10:00am	AAAE Opening Session	Augusta G
10:15am–11:45am	Research Session I	Augusta Rooms
12:00pm–1:30pm	Lunch on your own Graduate + Undergraduate Student Luncheon	Tin Lizzy's (offsite)
1:30pm–3:00pm	Concurrent Research Session II	Chastain Rooms
2:45pm–4:00pm	Innovative Poster Session	Savannah Ballroom
3:00pm–4:00pm	UT ALEC Ice Cream & Cheese Snack Bar – <i>Sponsored by UTIA Extension, AgResearch, Herbert College, & Sweetwater Valley Farms</i>	9th Floor Terrace
3:00pm–4:00pm	SAAS General Business Meeting	Chastain 1/2
5:00pm	SAAS Opening Social	Grand Loft – Southern Exchange
Monday, February 5, 2024		
8:00am–10:00am	Registration Coffee + Tea Bar – <i>Sponsored by ChLOE</i>	The Overlook (6 th floor) Chastain Foyer
8:00am–9:00am	Emerging Research Sessions	Chastain Rooms
9:15–10:45am	Concurrent Research Session III	Chastain Rooms
11:00am–12:00pm	AAAE Business Meeting Session I	Chastain F
12:00pm–1:30pm	Lunch & Distinguished Lecture	Grand Loft
1:45–3:00pm	Professional Development	Chastain D
3:15pm–4:30pm	Research Poster Session	Savannah Ballroom
5:00pm	Explore the City (on your own)	Across Atlanta
Tuesday, February 6, 2024		
8:00am–9:00am	AAAE Business Meeting Session II	Chastain E
9:15am–12:00pm	Brunch & Distinguished Manuscript Presentations Award Ceremony	Chastain F

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REVIEWERS FOR 2024 AAAE SOUTHERN REGION RESEARCH CONFERENCE PAPERS

Alex Cline Byrd	Eric Kaufman	Lauren Lewis Cline
Alexa Lamm	Eric Rubenstein	M'Randa Sandlin
Andrew Thoron	Garrett Hancock	Maria Mercedes Rossi
Audie Cherry	Gary Briers	Matt Benge
Audrey E. H. King	Hannah Scherer	Misty Lambert
Barry Croom	Jade Davidson	Natalie Ferand
Blake Carter	James Scott	Pablo Lamino
Blake Colclasure	Jamie Greig	Quisto Settle
Bradley Coleman	Jason McKibben	Ramona Weeks
Brett Milliken	JC Bunch	Richie Roberts
Brian Myers	Shane Robinson	Sarah Bush
Carla Jagger	Jimmy Lindner	Sarah Sprayberry
Catherine A. DiBenedetto	Joseph Donaldson	Stacy K. Vincent
Catherine Sanders	Joy Morgan	Stephanie Lemley
Chaney Mosley	Kathleen Kelsey	Taylor Ruth
Chris Clemons	Katie Stofer	Travis Park
Christopher Eck	Keith Frost	Tre Easterly
Christopher M. Estep	Kirby Barrick	Trent Wells
Curtis Friedel	Kirk Swartzel	Tyler Granberry
Dale Layfield	Kristie Guffey	Wendy Warner
Debra Barry	Kristin Stair	Will Doss
Donna Westfall-Rudd	Laura Greenhaw	

Research Committee: JC Bunch (Chair), Chris Eck (Chair Elect), Trent Wells, Shelli Rampold, Will Doss, Eric Kaufman

REVIEWERS FOR 2024 AAAE SOUTHERN REGION RESEARCH CONFERENCE POSTERS

Ryan Anderson	OP McCubbins
Carrie Baker	Brett Milliken
Mathew Benge	Karissa Palmer
Taylor Bird	Travis Park
Audie Cherry	Tyler Price
Adam Cletzer	Jon Ramsey
Jason Dossett	Bryan Rank
Dennis Duncan	Maggie Salem
Christopher Estep	Katie Sanders
Tyler Granberry	Glen Shinn
Justin Hall	Michael Spiess
Gaea Hock	Sarah Sprayberry
Logan Layne	Andrew Thoron
Diane Mashburn	Trent Wells

Program Improvement Committee: Wendy Warner (Chair), Chastity Warren-English, Carly Morrison, Joy Morgan, Mary Kate Lanier, Rebekah Epps

FULL CONFERENCE SCHEDULE

Saturday, February 3, 2024		
4:00 – 7:00 p.m.	Registration	The Overlook
Sunday, February 4, 2024		
8:00 – 10:00 a.m.	Registration Breakfast on your own <i>Univeristy Logo Day</i> Coffee + Drink Bar – <i>Sponsored by the UT Center for Farm Management</i>	The Overlook Augusta Foyer
9:00 – 10:00 a.m.	Agricultural Education Opening Session	Augusta G
10:15 – 11:45 a.m.	Concurrent Research Session I	
Session A Discussant: Steven "Boot" Chumbley Facilitator: Kayla Marsh	<p>Self-Regulated Learning in Middle School Agricultural Education: Teachers' Perspectives on Facilitating Quality Student Learning in Supervised Agricultural Experiences Jacob Englin, Richie Roberts, Kristin S. Stair, Michael F. Burnett</p> <p>A Qualitative Study of Factors Influencing Teaching Self-Efficacy of EAE Teachers Maria R. Helm, Nicholas E. Fuhrman, Jason B. Peake</p> <p>Ag Beyond the Classroom: An Assessment of the Agricultural Literacy Proficiencies of Adult Consumers in Tennessee Shelli Rampold, Tyler Granberry</p> <p>How Are School Based Agricultural Education Teachers Implementing Agriscience Fair in Middle School? Jillian C. Ford, Jason Dossett, Misty D. Lambert, R. G. (Tre) Easterly III</p>	Augusta F
Session B Discussant: Blake Colclasure Facilitator: Karissa Palmer	<p>Entering the Professorate: Hiring Authorities' Perceptions of Tenure-Track Faculty Needs Bradley Coleman, J.C. Bunch, Brian E. Myers</p> <p>Sense of Belonging as a Predictor of Retention in a College of Agriculture Sarah James, Christopher Estepp, Will Doss, Donald Johnson</p>	Augusta 3

The Opinion Leadership Paradox: Examining the Role of Opinion Leadership on Teachers' Intentions to Advocate for Agricultural Education
Benita Komunjeru, Whitney L. Figland-Cook, Richie Roberts, Kristin S. Stair

Session C

Augusta A

Discussant: Will Doss

Facilitator: Suzanna Browning

H.O. Sargent: A Founding Father of the NFA

Katlyn R. Foy, Wendy J. Warner, Joy E. Morgan, Barbara M. Kirby

An Assessment of Clemson University Cooperative Extension Agents' Perceptions of Work-Related Factors Leading to Burnout

Erika Hwang, Dale Layfield, Christopher Eck, Kristine Vernon

The FFA Girl: A Historical Examination of the Driving Forces Leading to Girls' Admittance into the National FFA Organization

Brooke Townsend Scott, Richie Roberts, Gary E. Moore, D. Barry Croom

Online Graduate Student Perceptions of Synchronous Virtual Reality Seminars

Caroline Brooks, Jamie Greig, Taylor Ruth, Bailey Watson

Session D

Augusta E

Discussant: Eric Kaufman

Facilitator: Rosemarie Somers

Future Teacher Academy Impact on Prospective Preservice Teachers' Intent to Pursue Agricultural Education as a College Major and Career Choice

Emily Sewell, Christopher J. Eck, Jon W. Ramsey

Critical Thinking and Personality Among Agricultural Undergraduate Students

Andrews Idun, Kevan Lamm, Jessica Holt, Alexa Lamm

Undergraduate Students' Attitude Toward Undocumented Migration: A Comparison Between Agricultural and Non-Agricultural Based Students from a Southern University

Pablo Lamino, Carlos Durán Gabela, Renzo Ceme Vincas, Amy Boren-Alpizar

Opportunities for Extension to Help Residents Ask Local Decision-Makers to Support Wildlife-Friendly Landscaping in Communities

Sravani Pasula, Dharmendra Kalauni, Laura A. Warner, Emily Marois, John Diaz, Jaret C. Daniels, Adam G. Dale

12:00 – 1:30 p.m.

Lunch on your own

Graduate Student Orientation (*Tin Lizzy's – 121 Perimeter Center West*)

1:30 – 3:00 p.m.

Concurrent Research Session II

Session E

Chastain A

Discussant: Christopher Eck

Facilitator: Emily Sewell

Investigating Factors that Influence College Athletes' Use of Cannabidiol (CBD) Products

Zach Brown, Blake Colclasure

Use of Self-Directed Learning and Performance Based Assessment to Improve an Agriculture Cohorts Use of the Safe Farm Steward Application

Ruth Toole, Stacy Vincent, Kang Namkoong, A. Preston Byrd, Song Yongwook

Unearthing Agricultural Legacies: The Jesup Wagon's Impact on Black Heritage and Extension Services

Mikayla Daniels, Joy Morgan, Wendy Warner

Successful Programming for the Recruitment of Underrepresented Students in Agriculture: A Case Study of a Diversity Initiative at an 1862 Land-Grant University

Allison Spillman-Decell, Richie Roberts, Kristin S. Stair, Michael F. Burnett

Session F

Chastain C

Discussant: Misty Lambert

Facilitator: Jason Dossett

Toward Globally Competent Teaching: A One-Year Retrospect on Agriscience Teachers' Changes in Perspective after an International Experience

Whitney L. Figland-Cook, Jacob Englin, Richie Roberts, Kristin S. Stair

Simulation in Agricultural Sciences: Innovations and Applications for Better Outcomes

Anjorin Adeyemi, Shuai Ma

Perceived Masculinity and Femininity Levels of Secondary Youth Leadership

Stacy Vincent, Tyler Newberry, Chris Cherry

Impact of Program Size on the Program Management and Planning Needs of Oklahoma School-Based Agricultural Education Teachers

Emily Manuel, Ryan W. Best, Bradley M. Coleman, Christopher J. Eck

Session G

Chastain E

Discussant: Tre Easterly

Facilitator: Emily Fuller

Needs Assessment of Georgia Elementary Agriculture Education Teachers

Hannah Bailey, Jason Peake, Barry Croom, Eric Rubenstein

Determining Instructional Design Effects on Self-Efficacy, Interest, and Knowledge in a Small Engines Course

Will Doss, Christopher Estepp, Donald Johnson, Kobina Fanyinkah

Tasks Associated with Teaching School-Based Agricultural Education: Supervised Agricultural Experiences

Ryan Best, J. Shane Robinson, M. Craig Edwards, Robert Terry, Jr., Ki L. Cole

Climate Variability Education Programs: Targeting Receptive Alabama Agricultural Producers

Tegan Walker, James Lindner

Session H

Discussant: Kevin Lamm

Facilitator: Mary Kate Lanier

Chastain I

Uncovering the Past: Minority Contribution and Early Start of Black American Students 4-H Program in North Carolina

Joy Morgan, Andrew Waaswa, Wendy Warner

Evaluating Elementary Agriculture Teacher Workshops on Pedagogical Content Knowledge

Jessica Boone, Jason Peake, Jade Davidson

Exploring the Influence of Cooperative Based Learning in an Undergraduate Agricultural Leadership Course

Jodie Spivey, Bradley Coleman

Living in the Borderland: An Examination of the Work-Family Borderland of Dual Agriculture Teacher Couples in North Carolina

Alyssa Ramsey Spence, Travis Park, Wendy Warner, W. Greg Cope

2:45 – 4:00 p.m.	Innovative Poster Session	Savannah Ballroom
3:00 – 4 p.m.	UT ALEC Ice Cream & Cheese Snack Bar <i>Sponsored by UTIA Extension, AgResearch, Herbert College, & Sweetwater Valley Farms</i>	9 th Floor Terrace
4:00 p.m.	SAAS General Business Meeting	Chastain 1/2
5:00 p.m.	SAAS Opening Social	Grand Loft

Monday, February 5, 2024

8:00 – 10:00 a.m.	Registration Breakfast on your own Coffe + Tea Bar – <i>Sponsored by ChLOE</i>	The Overlook Chastain Foyer
8:00 – 9:00 a.m.	Emerging Research Sessions	

Emerging Session I

Discussant: Will Doss

Facilitator: Tyler Price

Chastain I

A Co-Curricular Undergraduate Research Program Evaluation

Logan Layne, Donna Westfall-Rudd, Hannah Sunderman, Tiffany Drape

Emerging Results of a Systematic Review: The Impacts of School-Based Agricultural Education in Low and Lower-Middle Income Countries

Carmen Benson, Robert Strong, Theresa Murphrey, Sophia Wegeng

An Assessment Of The Inner Working Relationships of School Based Agriculture Educators In Multi-Teacher Departments

Andra Collins, Jason McKibben, Garrett Hancock

The Effects of Educational Technology on Students' Academic Achievement in Agricultural Education: A Meta-Analysis

Shuai Ma, Anjorin Ezekiel Adeyemi, Zhihong Xu, Qing Wang

Emerging Session II

Discussant: Christopher Eck

Facilitator: Ryan Best

Chastain J

Adoption of a Cooperating Teacher Support Program in University Teacher Preparation Programs: A Diffusions of Innovations and Concerns-Based Adoption Model Exploration

Heather Nesbitt, Debra Barry, JC Bunch, Paul Monaghan, Haun Chen

Empowering Tomorrow's Science Communicators: A Case Study in Integrating Cooperative Extension into Science Communication Education

Lauri Baker, Anissa Mattox, Cheng-Xian Yang, Heather Young

Developing Evidence-Based Messages to Encourage Sustainable Cattle Production: A Sequential Exploratory Approach to Message Design Using Q Sorts and Interviews

Ginger Orton, Laura Fischer, Courtney Meyers, Matt Raven, David Doerfert

STEM Teaching for All Online Certificate Program

Katie Stofer

9:15 – 10:45 a.m.

Concurrent Research Session III

Session I

Discussant: Shane Robinson

Facilitator: Sharon Wagner

Chastain F

Identifying Relationships and Differences Related to Arkansas FFA Chapter Success in Career Development Events

Hiliary Rodgers, Will Doss, Christopher Estep, Donald Johnson

Validation of the School-Based Agricultural Education Model of Support Instrument

Kayla Marsh, Christopher J. Eck, William Doss

Emerging Trends for Middle School Agricultural Education in the United States: A Scoping Review

Jacob Englin, Richie Roberts, Kristin S. Stair, Michael F. Burnett

Cooperating Teacher's Perceptions of Their Roles as Mentors: An Exploration Using Theory of Planned Behavior

Jessica Switzer, Heather Nesbitt, Debra Barry

Session J

Chastain I

Discussant: Donna Westfall-Rudd

Facilitator: Emily Manuel

Using Students' Chosen Gender Pronouns in School-Based Agricultural Education (SBAE): An Exploratory, Longitudinal Study of Preservice Teachers' Perceived Knowledge and Preparedness

Tyler Price, Craig Edwards

Mental Health Awareness: SBAE Teachers' Perspectives

Eric Rubenstein, Anna Scheyett, J. Renee Martin, Taylor Bird, Ian Marburger

Utilizing the Land-Based Learning Model for the Clemson University Cooperative Extension Service Agricultural Safety Program

Maryann Mishelle Lovem, Catherine A. DiBenedetto, Aaron P. Turner, Hunter F. Massey

An Analysis of Thwarted Belongingness and Perceived Burdensomeness Among a State-Wide Agriculture Youth Essay Contest

Katrina Clontz, Kelly McFarland, Stacy Vincent

Session K

Chastain J

Discussant: Dale Layfield

Facilitator: Cassie Goff

STEM Immersion in School-Based Agricultural Education

Christopher J. Eck, Kristopher Rankin III, Ryan Best, Kayla Marsh, Emily Sewell, Bradley Coleman, J. Shane Robinson

Understanding Concerns of New North Carolina SBAE Teachers Participating in an Induction Program

Jillian C. Ford, Misty D. Lambert, Wendy J. Warner

Empirical Exploration of Communication Channel Use for Prospective Graduate Students in a College of Agricultural Sciences

Allison Byrd, Alexa J. Lamm, Jessica Holt, Kevan Lamm, Rochelle Sapp

Exploring Participants' Perspectives During an Agriculturally Focused Short-Term Study Abroad: A Q-Methodology Study

Newlin Humphrey, Bradley Coleman, Angel Riggs, Lauren Lewis Cline

11:00 a.m. – 12:00 p.m.	AAAE Business Meeting Session II	Chastain F
12:00 – 1:30 p.m.	Luncheon and Distinguished Lecture	Grand Loft
1:45 – 3:00 p.m.	Professional Development	Chastain D

QPR Training for Ag Ed Professionals

Chaney Mosely, Middle Tennessee State University

In a recent study of school-based agricultural educators in the southern region, 1 in 5 teachers had contemplated suicide, leading to the recommendation of offering suicide prevention professional development where agricultural education professionals convene. A frequent prevention strategy is QPR – question, persuade, refer – three simple steps anyone can learn to help save a life from suicide. People trained in QPR learn how to recognize the warning signs of a suicide crisis and how to question, persuade, and refer someone to help. Mental health concerns are rising, so join us in this session as we explore suicide warning signs and learn how to intervene.

*****Attendees will become a certified QPR Gatekeeper and receive a credentialing certificate.***

3:15 – 4:30 p.m.	Research Poster Session	Savannah Ballroom
5:00 p.m.	Explore the City (on your own)	Across Atlanta

Tuesday, February 6, 2024

8:00 – 9:00 a.m.	AAAE Business Meeting Session II	Chastain E
9:15 a.m. – 12:00 p.m.	Distinguished Manuscript Presentations Brunch & Award Ceremony	Chastain F

Discussant: Jason Peake

Facilitator: Jillian Ford

Growing Together with Wheat: Evaluation of the Norman Borlaug Youth in Agriculture Program

Sarah Sprayberry, Xin Li, Dottie Goebel, Billy Zanolini, Jun Wang

Characteristics and Leadership Identity Development of CALS Leadership Institute Graduates

Sarah A. Bush, Carrie N. Baker, Kiera Packer, Natalie Coers, H. Charlotte Emerson

Tasks Associated with Teaching School-Based Agricultural Education: Advising an FFA Chapter

Ryan Best, J. Shane Robinson, M. Craig Edwards, Robert Terry, Jr., Ki L. Cole

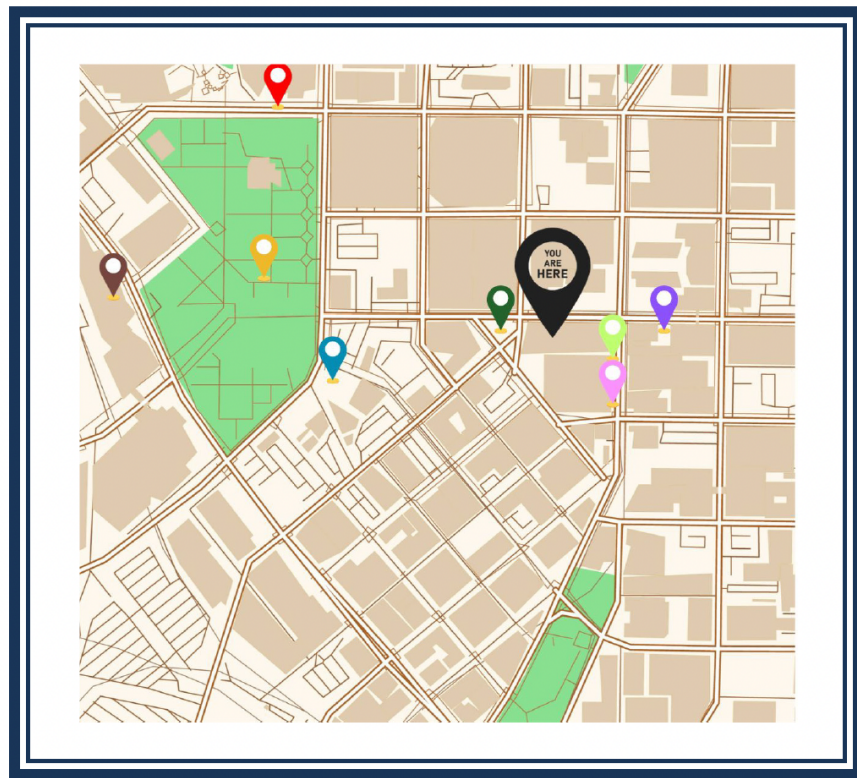
An Agricultural Assessment of Social Studies Teachers in South Carolina

Walker Reid, Dale Layfield, Christopher J. Eck, Dara Park

Living as an Imposter: An Exploration of the Lived Experiences among Multiracial Youth in Secondary Agricultural Education

Juliana D. Markham, Stacy Vincent, Sophia V. Jaramillo-Vasconez

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Hall of Fame**
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**Sweet Georgia's
Juke Joint**
(0.1 miles)



Walton Spring Park
(<0.1 miles)



**Amalfi Cucina &
Mercato**
(<0.1 miles)



**Centennial
Olympic Park**
(0.4 miles)



**Meehan's Public
House**
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SATURDAY, FEBRUARY 3, 2024

REGISTRATION: 10:00 AM - 4:00 PM

POSTER SESSION: 1:00 PM - 4:00 PM

AUTHORS PRESENT FROM 1:00 PM- 3:00 PM

LOCATION: Westin Peachtree Plaza—Savannah Ballroom

UNDERGRADUATE STUDENT POSTER COMPETITION

1. Effect of Inoculant Products on Soybean (Glycine Max) Production in Western Kentucky. **E. Marsh** and M. Taylor
2. Nitrogen Leaching of Urea-Based Fertilizer Sources Under Cotton Production. **L. Pace** and A. V. Gamble
3. Blending Stabilized and Controlled Release Fertilizer N Sources for Optimizing TN Hay Production. **A. Bledsoe** and M. P. Natrass
4. Liquid Potassium (K-19) Versus Dry Potassium (Potassium) in Corn (*Zea Mays*) and Soybeans (Glycine Max) in Western Kentucky. **G. Williamson** and J. Grab
5. Absorption of Liquid Potassium Versus Dry Potassium in Corn (*Zea mays*) and Soybeans (Glycine max). **J. Grab** and G. Williamson
6. Stratification of Potassium in Tillage Vs. No-till Systems and Uptake in Corn (*Zea mays*) in Western Kentucky. **A. Isaacs**, K. Krieger, C. Powell, and M. Taylor
7. Climate-Smart Alley Cropping (Agroforestry) and Soil Carbon Cycle Proxies. **M. J. Sternberg**, B. Dari, M. Barmon, J. Kagan, G. Read, J. Kimes, R. Quillian, and D. Sihi
8. Nutrient Runoff Analysis: UAN and Urea in Rainfall Simulation. **D. Meeks**, G. Spencer, D. Z. Reynolds, G. Oakley, M. Hutton, and B. Norris
9. Design, Construction, and Testing of an Open-Source in-Field NDVI and RGB Timelapse Sensor. **J. Jerls**
10. Increasing Seeding Rates to Negate Impacts of Later Planting Dates in Corn. **L. Norman**, W. Bobo, J. Jerls, and M. J. Maw
11. Prohexadione Calcium Application Increase Peanut Peg Strength and Reduce Plant Height. **M. Thoms**, H. Singh, K. Singh, P. Omara, N. Nwosu, J. C. Brown, and S. Spiers
12. Effect of Fungicide Application on Corn (*Zea mays*) Stomata and Yield in Western Kentucky. **J. Lewis**, M. Taylor, B. Kennedy, and C. Powell
13. Effect of Drought Stress Timing on Reproductive Development and Seed Quality of Peanut Cultivars. **G. A. Comitre**, W. M. Porter, C. C. Holbrook, and C. Pilon
14. Calcium Sources Impact on Pod Yield, Quality, and Aflatoxin Levels of Two Peanut Cultivars. **B. Tessarolli**, R. De Castro E Melo, G. Harris, and C. Pilon

GRADUATE STUDENT POSTER COMPETITION – M.S. STUDENTS

15. Use of Active Sensors to Improve Nitrogen Management in Snap Bean. **R. Singh**, R. C. Hochmuth, D. A. H. D. S. Leitao, R. Singh, S. K. Sidhu, S. Singh, S. S. Sidhu, and L. Sharma

16. Evaluation of Soybean Yield Potential Following Simulated Hail Damage. **B. R. Elliott**, J. T. Irby, and G. Oswalt
17. Evaluation of Soybean Yield Potential Following Simulated Stand Loss after Planting. **W. O'Neal**, J. T. Irby, G. Oswalt, B. R. Elliott, J. Bond, W. Maples, and B. Peralisi
18. Study the Effect of Amendments on Greenhouse Gas Emissions from Poultry Litter. **S. Poudel**, D. Chakraborty, R. Prasad, and D. B. Watts
19. Methods for Establishing Cover Crops in Bedded Systems. **G. M. Shavers**, M. J. Mulvaney, O. E. Olomitutu, T. Hilyer, and J. Wallace
20. Herbicide Resistance Screening in Tropical Spiderwort (*Commelina benghalensis* L.) Populations Collected across Southeastern United States Summer Crop Fields. **W. Yates**, A. Yadav, and A. Maity
21. Seed Survivability of Dominant Southern Weed Species in Cattle Digestive System Is Linked to Seed Size, Seed Coat Hardiness and Species of the Weeds. **A. Singh**, W. B. Smith, D. P. Russell, and A. Maity
22. Effect of Silicon Application on Physiological Parameters and Nutrient Uptake in Rice (*Oryza sativa* L.). **S. V. G. Vurranki**, S. Ramasamy, and S. Datta Mudi
23. Evaluation of Cattle Paunch on Soil Properties and Forage Production in South Texas. **A. Zaragoza**, D. B. Parker, S. D. Nelson, B. L. Turner, and G. L. Schuster
24. Effects of Cover Crop Mixtures on Soil Health and Agricultural Sustainability in South Texas. **E. Zamora**, S. Datta Mudi, J. L. Foster Malone, and G. L. Schuster
25. Integration of Cover Crops and Herbicides for Weed Control in Peanut. **G. Chahal**, A. Kumari, and A. Price
26. Can Endophytes Influence Herbicide Resistance Development in Italian Ryegrass? a Case Study in Alabama. **A. Yadav**, A. Adesemoye, D. P. Russell, and A. Maity
27. Field Performance of Biostimulants in Mississippi Corn. **P. Gajula**
28. Effects of Heat Stress on Cotton Physiology and Yield. **M. K. Bista**, B. Adhikari, K. R. Reddy, and R. Bheemanahalli
29. Re-Evaluating Corn Nitrogen Recommendation Methods in Georgia. **J. Winkler**, A. Yakubu, H. Sintim, L. M. Bastos, and R. Roth
30. Manure Type and One-Inch Rainfall in a No till System? **C. Raj**, R. Prasad, D. Chakraborty, D. B. Watts, T. Horvath, and B. Chaves-Cordoba
31. Physiological Effects and Economic Impact of PGR Applications on Soybeans. **T. Johnson**, J. Lofton, and H. E. Shear
32. Effectiveness of Biostimulants in Alleviating Heat Stress in Soybeans. **V. Hosahalli**, C. J. Bryant, K. R. Reddy, J. S. Dhillon, and R. Bheemanahalli
33. Morpho-Physiological and Yield Responses of Cowpea to Drought Stress. **S. Poudel**, L. Valsala Sankara Pillai, B. Adhikari, K. R. Reddy, and R. Bheemanahalli
34. Assessment of Smart Fertilizer Technologies to Enhance Nitrogen Use Efficiency in Corn in Florida. **S. Singh**, D. A. H. D. S. Leitao, R. Singh, R. Singh, S. K. Sidhu, W. Griffin, S. S. Sidhu, and L. Sharma
35. Corn Yield and Uptake Efficiency As Affected By Nitrogen Application Placement. **M. Hutton**, L. J. Krutz, D. Z. Reynolds, and G. D. Spencer
36. Relative Contribution of Physiological Parameters to Aflatoxin Risk in Rainfed Peanut Fields. **M. Sysskind**, C. Pilon, S. Kukal, S. Maktabi, G. Vellidis, A. Peduzzi, T. Bourlai, and L. M. Bastos

37. Applying Random Forest Models to Satellite Imagery for Prediction of Soil Cation Exchange Capacity and Organic Matter. **I. Tokeshi Muller**, M. Li, J. M. P. Czarnecki, and B. K. Smith
38. Assessing Greenhouse Gas Emissions and Nutrient Transformations in Poultry Manure Stockpiled Under Open and Covered Conditions. **S. Koneti**, R. Prasad, D. Chakraborty, D. B. Watts, and H. A. Torbert
39. Biological Product Effects on Soybean Plant Architecture and Yield Components in Mississippi. **T. Hilyer**, C. J. Bryant, M. J. Mulvaney, T. Allen, J. T. Irby, J. Wallace, G. M. Shavers, and O. E. Olomitutu

GRADUATE STUDENT POSTER COMPETITION – Ph.D. STUDENTS

40. Corn and Soybean Yield Prediction Using Machine Learning Techniques: A Systematic Literature Review. **R. Kumar**, J. -, C. Kumar, S. Sharma, and J. S. Dhillon
41. Planting Cover Crops before Corn Harvest: Optimizing Timing, Seed Rate, and Establishment Potential of Different Species. **S. S. S. Bhullar**, L. Sharma, S. Kumar, and S. S. Sidhu
42. Influence of Biostimulants on Emergence and Seedling Vigor Under Low and High Temperatures. **B. S. Sivarathri**, C. J. Bryant, K. R. Reddy, J. S. Dhillon, and R. Bheemanahalli
43. Evaluation of Enhanced Efficiency N-Fertilizer Sources and Rates for Growth and Yield Optimization in Industrial Hemp (*Cannabis Sativa* L.). **N. Nwosu**, H. Singh, Y. Upadhyaya, P. Omara, K. Singh, and O. Ajani
44. Influence of Cover Crops on Selected Soil Properties in Northeastern Mississippi. **W. Dai** and G. Feng
45. Heat Tolerance in Wild-Derived and Cultivated Peanuts: A Photosynthetic Perspective. **K. J. Awori**, C. Pilon, J. Snider, S. Leal-Bertioli, D. Bertioli, and V. Tishchenko
46. Morphological Characterization of Rice Genotypes for Chilling Stress Tolerance. **R. Chandavarapu**, K. R. Reddy, and R. Bheemanahalli
47. Impact of Tillage Practices on Soil Carbon Cycle Processes: A Comprehensive Meta-Analysis. **M. Barmon**, B. Dari, G. Read, Y. Du, N. Z. Phoo, and D. Sihi
48. Carinata Response to Nitrogen Sources and Rates ✓. **M. A. I. Sohag**, J. E. Iboyi, S. Amissah, G. Ankomah, P. Devkota, R. D. Lee, R. Seepaul, S. George, R. Bennett, L. Dyer, and H. Sintim
49. Cotton Yield Response to Conventional Fertilizer and Poultry Manure Combinations Under Different Cover Crop Management Methods. **C. M. Kichler**, D. B. Watts, H. A. Torbert, T. S. Kornecki, and R. Prasad
50. Assessing Chloride and Nitrite Matrix Effects on Ultraviolet Light Absorbance of Nitrate. **M. Zoglie**, G. Ankomah, S. Amissah, M. A. I. Sohag, and H. Sintim
51. Early Season Nutrient Stress Effects of Corn Under Different Soil Moisture Regimes. **S. Musah**, S. Amissah, and H. Sintim
52. To Evaluate the Impact of Biostimulant at Variable Phosphorous Rates in Potato Production. **R. Singh**, L. Sharma, S. K. Sidhu, A. Sharma, S. Singh, R. Singh, and W. Griffin

53. Comparison of Additive, Multiplicative, and Component-Based Phosphorus Indices Using Edge-of-Field Monitoring Data from Alabama Farms. **A. Bhatta**, R. Prasad, D. Chakraborty, D. B. Watts, and H. A. Torbert
54. P Use Efficiency in High-Yielding Runner-Type Peanut Cultivars Depend on P and Water Availability. **C. F. D. S. Cordeiro Sr.**, M. G. O. Andrade, L. V. Galdi, F. R. Echer Sr., and C. A. Rosolem Sr
55. Influence of Planting Pattern and Herbicide Programs on Sicklepod [*Senna Obtusifolia* (L.) Control in Peanut. **O. S. Daramola**, G. E. MacDonald, R. Kanissery, B. L. Tillman, H. Singh, and P. Devkota
56. Optimizing Cultural Management for Cover Crop Interseeding in Organic Corn Production System. **L. Madrid** and S. Narayanan
57. How Fast Can We Plant Soybean in Mississippi? **O. E. Olomitutu**, M. J. Mulvaney, J. Dhillon, W. J. Lowe, C. J. Bryant, J. Wallace, N. Harper, G. M. Shavers, and T. Hilyer
58. Exploring Cover Crops in Alabama: Assessing Soil Health, Yield, and Root Characteristics of Following Cash Crop. **J. Singh**, A. V. Gamble, S. Brown, J. Koebernick, P. Bartley, and A. Sanz-Saez
59. Effects of Cereal Rye Residue and Soil-Applied Herbicide on the Germination of Troublesome Southeastern Weeds. **A. Kumari**, A. Price, A. V. Gamble, and S. Li
60. Influence of Temperature Regimes on Small Grain Germination. B. J. Haggard, **G. Abit**, and J. Lofton

PROFESSIONAL POSTER – CROPS

61. Cotton Growers in Georgia Perceive White-tailed Deer to be their Most Economically Impactful Pest. **C. Hand**
62. Using the Pasture Factor in Estimating the Daily Herbage Intake of Stockers Grazing Bermudagrass As Limited By Herbage Mass. **P. Oli**, C. R. Long, L. O. Tedeschi, and F. M. Rouquette Jr.
63. Irrigated Vs Dryland Soybeans, Relating to Planting Arrangement and Light Interception. **B. Norris**, L. J. Krutz, D. Z. Reynolds, G. Spencer, G. Oakley, and M. Hutton
64. Potassium Effects on Soybean Grain Yield and Moisture. **A. Bumguardner** and K. Waldrep
65. Evaluating Poultry Litter Amendments within a Peanut-Cotton Rotation. **B. Zurweller**, C. Robinson, and J. May
66. Development and Use of Online Agronomic Extension Modules. **B. J. Haggard**, G. Abit, J. Lofton, and E. Diacon

PROFESSIONAL POSTER – SOILS

67. Can the Gypsum Application Method Influence Nutrient Loss from Fields Fertilized with Poultry Litter. **D. B. Watts**, H. A. Torbert, and J. Gonzales
68. Comparative Analysis of Various Organic Nutrient Sources for Okra (*Abelmoschus esculentus*) Production. **S. Datta Mudi**, S. Chanda, and K. Jayachandran
69. Impact of Grazing Management on Soil Health Under a Regenerative Organic System. **S. Hamido**, A. Smith, and R. Afshar

70. Runoff Depth and Nutrient Losses from Agricultural Fields in Alabama: 3-Year Edge of Field Monitoring Under Natural Rainfall. **A. T. Nguyen**, R. Prasad, A. Sharma, B. Ortiz, A. V. Gamble, M. R. Worosz, and L. Duzy
71. Changes in Soil Phosphorus Fractions When Amended with Different Rates of Poultry Litter: Agronomic and Environmental Perspective. **D. Chakraborty** and R. Prasad
72. Pivot Bio Proven40 Effects on Corn Under Ultisol Soil Conditions in Georgia. **H. Sintim**, S. Amissah, G. Ankomah, J. Lambert, C. Prince, R. Black, and D. Poston
73. Subsurface Drainage System for Row Crop Production in the Southeast USA. **G. Feng**, W. Dai, D. Dodds, and D. B. Reginelli
74. Response of Soil Physiochemical Properties to Cover Crops in Northeastern Mississippi. **W. Dai**, G. Feng, Y. Huang, A. Adeli, J. N. Jenkins, and D. B. Reginelli
75. Effects of Soil Water Tension on Iron Deficiency Chlorosis (IDC) in Soybean in the Black Belt Prairie of Mississippi. **K. Waldrep** and M. L. Tagert

SUNDAY, FEBRUARY 4, 2024

REGISTRATION: 8:00 AM - 15:00 PM

GRADUATE STUDENT ORAL COMPETITION – SECTION 1 – M.S. STUDENTS

MODERATOR:

LOCATION: Westin Peachtree Plaza—Chastain D

7.55 AM	Opening Remarks
8.00 AM	Effects of Organic Biostimulant on Golf Green Seashore Paspalum (<i>Paspalum vaginatum</i>). M. L. Meagher
8.15 AM	Efficacy of Banded Potassium Applications and Reduced Rates in a Cotton Production System. B. Bullock , B. Peralisi, B. Zurweller, D. M. Dodds, T. Wilkerson, W. J. Rutland, L. C. Noah, and B. Norris
8.30 AM	Effects of Biological Products on Soybean in Mississippi. T. Hilyer , C. J. Bryant, M. J. Mulvaney, T. Allen, J. T. Irby, J. Wallace, G. M. Shavers, and O. E. Olomitutu
8.45 AM	Effects of Poultry Litter Amendments in Reducing Ammonia Emissions. S. Poudel , D. Chakraborty, R. Prasad, and D. B. Watts
9.00 AM	Is Poultry Litter Application Linked to Aggravated Weed Emergence in Southeastern Crop Fields? a Multi-Location Corn Study in Alabama. A. Singh , R. Prasad, R. Singh, and A. Maity
9.15 AM	Growth Response and Herbicide Sensitivity of Tropical Spiderwort (<i>Commelina benghalensis</i> L.) Under Elevated CO ₂ and Soil Moisture Stress. W. Yates , S. Prior, and A. Maity
9.30 AM	Soybean Response to Fertility Timing in Mississippi. G. M. Shavers , M. J. Mulvaney, O. E. Olomitutu, T. Hilyer, J. Wallace, C. J. Bryant, and V. Reed
9.45 AM	Soybean Response to Foliar Potassium Use at Varying Soil Application Rates. E. Baynes and C. J. Bryant
10.00 AM	Break
10.15 AM	Evaluation of Enhanced Efficiency Fertilizers in TN Hay Production Systems. M. Garner
10.30 AM	Optimizing Rainfed Cotton Growth: Unveiling the Impact of Enhanced Efficiency Fertilizers on Growth Parameters, Yield and Lint Quality. K. Singh , H. Singh, W. Hammond, L. Sharma, P. Omara, and N. Nwosu
10.45 AM	Predicting Irrigation Yield Effects Using Machine Learning in the Alabama Black Prairie Region. I. F. Diaz Flores , T. Knappenberger, J. N. Shaw, and A. V. Rabinowitz
11.00 AM	Influence of a Cereal Rye Cover Crop on the Critical Period for Weed Control in Soybean. G. Chahal , A. Price, A. Kumari, A. V. Gamble, and S. Li
11.15 AM	How Row Orientation, Row Spacing, and Mulching Affect Weed Germination in Peanuts? A. Yadav , D. P. Russell, and A. Maity
11.30 AM	Examining Manure Impacts in Conventional System with One-Inch Rainfall on Runoff, Sediment, and Nutrient Losses? C. Raj , D. Chakraborty, D. B. Watts, T. Horvath, B. Chaves-Cordoba, and R. Prasad

11.45 AM	Impact of Nitrogen Credit from Prior Peanut Cultivation on Snap Bean Attributes in the Soils of North Florida. R. Singh , R. C. Hochmuth, D. A. H. D. S. Leitao, S. S. Sidhu, and L. Sharma
12.00 PM	Adjourn

GRADUATE STUDENT ORAL COMPETITION – SECTION 2 – M.S. STUDENTS

MODERATOR:

LOCATION: Westin Peachtree Plaza—Chastain J

7.55 AM	Opening Remarks
8.00 AM	Evaluating the Impact of Biostimulants at Variable Nitrogen Rates in Mississippi Corn Production Systems. P. Gajula , C. J. Bryant, and J. S. Dhillon
8.15 AM	Impact of Management on Forage Quality and Nitrate Toxicity of Grain Sorghum Residue Following Harvest. J. Rice
8.30 AM	On-Farm and Small-Plot Trials to Evaluate Split Application of Potassium Fertilizer on Peanut Growth, Yield, and Quality. A. Regmi , S. S. Sidhu, S. S. Bhullar, and S. Kumar
8.45 AM	Drought Resilience of Cotton Breeding Lines during Reproductive Stage. M. K. Bista , B. Adhikari, K. R. Reddy, and R. Bheemanahalli
9.00 AM	Evaluating Water Use Differences across Multiple Cotton Population Densities. M. Hayes , W. M. Porter, L. Fuhrer, C. Hand, G. Vellidis, J. Snider, and C. Perry
9.15 AM	Corn Grain Yield Prediction Using Ground Based Active Optical Sensors in North Florida. S. Singh , R. Singh, D. A. H. D. S. Leitao, and L. Sharma
9.30 AM	The Influence of Biological Inoculants and Nitrogen Rates on Canopy Temperature in Corn. A. M. Sheffield and R. W. Heiniger
9.45 AM	Potential of Ammonium Thiosulfate and Potassium Thiosulfate to Inhibit Nitrification in Soils. L. Galloway , A. V. Gamble, B. Guertal, and Z. Ogles
10.00 AM	Break
10.15 AM	Nutrient Uptake By Soybean Maturity Group. J. Douglas
10.30 AM	Morphological, Physiological and Yield Responses of Cowpea to Drought Stress. S. Poudel , L. Valsala Sankara Pillai, B. Adhikari, K. R. Reddy, and R. Bheemanahalli
10.45 AM	Phenotypic Manipulation of Annual Ryegrass for Desired Anthesis Date. P. Adhikari , B. S. Baldwin, and J. Morrison
11.00 AM	Optimizing Fungicide Program for Peanut Based on Plant Population Density. L. Frapoli , R. S. Tubbs, and R. Kemerait
11.15 AM	Impact of Planting Pattern and Planting Population on Cotton Development, Fruit Distribution, Yield, and Fiber Quality. W. J. Rutland , B. Pieralisi, D. M. Dodds, W. Crow, W. J. Lowe, G. D. Spencer, L. C. Noah, B. Bullock, B. Norris, and T. Soignier
11.30 AM	Impact of Defoliation and Loss of Apical Dominance on Cotton Growth, Development, and Yield. L. C. Noah , B. Pieralisi, D. M. Dodds, W. J. Rutland, and B. Bullock
11.45 AM	Adjourn

GRADUATE STUDENT ORAL COMPETITION – SECTION 1 – Ph.D. STUDENTS

MODERATOR:

LOCATION: Westin Peachtree Plaza—Chastain D

1.00 PM	Corn Response to Planting Speed in Mississippi. O. E. Olomitutu , J. Dhillon, M. J. Mulvaney, W. J. Lowe, C. J. Bryant, J. Wallace, N. Harper, G. M. Shavers, and T. Hilyer
1.15 PM	Have We Changed Root Distribution and Architecture in Cotton over the Past 65 Years? J. Singh , A. V. Gamble, S. Brown, J. Koebernick, P. Bartley, and A. Sanz-Saez
1.30 PM	Sensor-Based Study of Potassium and Nitrogen Interaction and Impact on Potato Production. S. K. Sidhu , A. Sharma, N. Kaur, A. K. Sandhu, H. Shellenbarger, L. Zotarelli, and L. Sharma
1.45 PM	Enhancing Soybean Yield: Integrating Cover Crops and Herbicides for Effective Weed Control. A. Kumari , A. Price, A. V. Gamble, and S. Li
2.00 PM	Environmental and Management Effects on Weed Seed Diversity and Viability in a Bermudagrass Pasture. A. Ahlersmeyer , S. A. Prior, A. Price, and A. Maity
2.15 PM	Photosynthetic Performance of Wild-Derived and Cultivated Peanuts Under Heat Stress. K. J. Awori , C. Pilon, J. Snider, S. Leal-Bertioli, D. Bertioli, G. A. Comitre, and V. S. Trevisan
2.30 PM	Break
2.45 PM	Development of Multiple Disease-Resistant Rice Lines through Marker-Assisted Backcross Breeding. R. Chandavarapu , R. Jegadeesan, K. R. Reddy, and R. Bheemanahalli
3.00 PM	Cover Crop Residue Management Effects on Soil Moisture and Cotton Emergence. C. M. Kichler , D. B. Watts, H. A. Torbert, T. S. Kornecki, and R. Prasad
3.15 PM	Assessing the Efficacy and Soil Safety of a Reduced Dose Tank-Mix of Pendimethalin and Pyroxasulfone. N. N. Purohit , P. Kaur, A. Maity, and M. S. Bhullar
3.30 PM	Influence of Plant Growth Promoting Rhizobacteria and Poultry Litter on Hay Production and Forage Quality. F. Satognon , D. B. Watts, A. Adesemoye, M. K. Mullenix, H. A. Torbert, and R. Prasad
3.45 PM	Adjourn

GRADUATE STUDENT ORAL COMPETITION – SECTION 2 – Ph.D. STUDENTS

MODERATOR:

LOCATION: Westin Peachtree Plaza—Chastain J

1.00 PM	On-Farm Efficacy of Cover Crop Treatments on Sediment/Nutrient Load Transport Abatement and Crop Yields. J. Hampshire , G. D. Spencer, L. J. Krutz, and G. Oakley
1.15 PM	Life after the Flood: An Automated, Low-Water-Use Rice Production System. G. Oakley , G. D. Spencer, D. M. Gholson, and L. J. Krutz
1.30 PM	Effects of Broiler Litter Total Cleanout Frequency on Corn Production and Soil Nutrient Status. R. Singh and R. Prasad

1.45 PM	Quantifying the Frequency of Flash Drought in the Southeastern United States and Estimating Its Effect on Corn and Cotton Yield. J. Jannat
2.00 PM	Climate Trends and Maize Production Nexus in Mississippi: Empirical Evidence from ARDL Modelling. R. Kumar , J. S. Dhillon, P. Kumar, R. Bheemanahalli, X. Li, and M. S. Cox
2.15 PM	Characterization of Root Trait Variability in Soybean. B. S. Sivarathri , K. R. Reddy, and R. Bheemanahalli
2.30 PM	Break
2.45 PM	Simulating Corn Growth and Yield to Understand Nitrogen Dynamics Using the DSSAT Crop Model. A. Sharma , R. Prasad, A. T. Nguyen, B. Ortiz, L. R. Teixeira Nunes, A. V. Gamble, M. R. Worosz, and L. Duzy
3.00 PM	Cover Crops and Organic Amendments Mitigated the Limitations of Conventional and Conservation Tillage and Improved Soil Health. G. Ankomah , S. Amissah, M. A. I. Sohag, M. Y. Habteselassie, D. H. Franklin, J. Snider, R. Kemerait, and H. Sintim
3.15 PM	Interaction of Corn Hybrid, Plant Population and Nitrogen Rate to Alleviate Preharvest Mycotoxin Contamination in Southeastern US Corn. N. Sinha , V. Reed, B. Henry, H. Yao, Y. Huang, J. S. Dhillon, R. Bheemanahalli, and D. Jeffers
3.30 PM	Yield Potential of Corn Under Various Fertilizer Application Methods and Soil Electrical Conductivity (EC) Zones in Sandy Soils of Northcentral Florida. S. S. S. Bhullar , L. Sharma, S. Kumar, and S. S. Sidhu
3.45 PM	Adjourn

MONDAY, FEBRUARY 5, 2024

PROFESSIONAL ORAL – SECTION 1

MODERATOR:

LOCATION: Westin Peachtree Plaza—Chastain D

7.55 AM	Opening Remarks
8.00 AM	A Bayesian Approach to Assess Cover Crop Effects on Soil Physical Properties. T. Knappenberger , A. Sanz-Saez, and A. V. Gamble
8.15 AM	Managing Populations and N Rates in Dryland Corn Production Systems in the Great Plains. J. Lofton , J. Rice, S. Harris, B. Cannon, and R. Wyma
8.30 AM	Corn Yield Prediction Using Multi-Temporal UAV Multispectral and Explainable Artificial Intelligence Models. C. Kumar , R. Kumar, J. S. Dhillon, Y. Huang, and K. N. Reddy
8.45 AM	Smart Co-Ops for Data Driven Decision Support Systems in Small and Mid-Scale Production Systems. M. P. Natrass
9.00 AM	Break
9.15 AM	Corn Yield Prediction Using UAV-Based Plant Height. D. A. H. D. S. Leita , A. Sharma, A. Singh, and L. Sharma
9.30 AM	Saffron As an Alternative High-Value Crop for Small-Scale Farms in Southern USA. B. Sharma Acharya and A. Ghalehbolabbehbahani
9.45 AM	Soybean Response to Early-and Late-Season Waterlogging. B. Adhikari , L. Valsala Sankara Pillai, J. S. Dhillon, K. N. Reddy, K. R. Reddy, and R. Bheemanahalli
10.00 AM	Assessing Nitrogen Fate in Corn Field Under Varied Soil Electrical Conductivity (EC) Zones and Application Methods in Sandy Soils of Suwannee Valley, Florida. S. S. S. Bhullar , L. Sharma, S. Kumar, and S. S. Sidhu
10:15 AM	Break

PROFESSIONAL ORAL – SECTION 2

MODERATOR:

LOCATION: Westin Peachtree Plaza—Piedmont 6

7.55 AM	Opening Remarks
8.00 AM	Florida Peanut Diagnostics Survey: An Extension Outreach Program to Help and Support Peanut Producers in Disease and Nutrient Management. S. Kumar , D. Broughton, E. Carter, K. W. Wynn, M. Warren, D. K. Fenneman, D. J. Leonard, M. D. Mauldin, and S. S. Sidhu
8.15 AM	An Update on 16-Year Rotational Study: Layering of Cropping Systems, Precision Ag. Techniques, and BMPs for Improving Water Quality and Nutrient Management in Northcentral FL. S. S. Sidhu , B. Acharya, S. S. S. Bhullar, V. Sharma, and S. Kumar

8.30 AM	Impact of Using Microbial Products to Increase Nitrogen Use Efficiency in Cotton Grown in the Mid-South. B. Pieralisi , W. J. Rutland, T. Soignier, B. Bullock, and L. C. Noah
8.45 AM	Impacts of Cover Crops and Poultry Litter on Soil Aggregate Stability in Soybean Production. W. Dai , G. Feng, Y. Huang, H. Tewolde, M. W. Shankle, and D. B. Reginelli
9.00 AM	Break
9.15 AM	Physiological and Yield Responses of Soybean Cultivars to Elevated Night Temperature during Reproductive Stage. L. Valsala Sankara Pillai , B. Adhikari, S. Stetina, K. R. Reddy, and R. Bheemanahalli
9.30 AM	Improving Soil Water Storage with No-Tillage Cover Cropping in the Mississippi River Alluvial Basin. M. Dhakal , M. Locke, K. Reddy, M. Moore, W. Steinriede Jr., and L. J. Krutz
9.45 AM	Reverse Field Day: An Extension Outreach Program Fostering Behavior Change Among Farmers through Adoption of Best Management Practices in North Florida. S. Kumar , M. Warren, K. W. Wynn, D. K. Fenneman, and S. S. Sidhu
10.00 AM	Application of Controlled Release Potassium Fertilizer on Peanut Yield in Sandy Soils of Northcentral Florida. S. S. Sidhu , S. S. S. Bhullar, A. Regmi, and S. Kumar
10:15 AM	Break

10.30 – 11.30 AM Agronomy Business Meeting and Awards**LOCATION: Westin Peachtree Plaza—Chastain D**

PROGRAM



2024 Annual Meeting

February 2-4, 2024

Atlanta, GA

88th Year

Southern Region

American Society for Horticultural Science

104rd Year

Horticulture Section

Southern Association of Agricultural Scientists

History of the Southern Region of ASHS and the Horticulture Section of SAAS

In 1899, the State Commissioners of Agriculture in several southern states founded “The Cotton States Association of the Commissioners of Agriculture”, which had horticulture involved in its very beginning. This is the founding organization that evolved into the modern-day Southern Association of Agricultural Scientists (SAAS). In 1920, SAAS (which at that time was called Association of Southern Agricultural Works, ASAW) formalized the affiliation with horticulture by founding the Horticulture Section. In 1936, the American Society for Horticultural Sciences approved the Southern States Section, which is now termed the Southern Region of ASHS. In 1937, SAAS accepted the affiliation between the Southern States Section of ASHS with the Horticulture Section of SAAS. Thus, the Southern Region jointly has been a part of both ASHS (with a founding date of 1936) and SAAS (with a founding date 1920). This rich history is detailed in publications by Andy Anderson, 1982, and Paul Seal, 1999 (available at srashs.org). The Southern Region encompasses the 14 southern states of Texas, Louisiana, Oklahoma, Arkansas, Mississippi, Georgia, Alabama, Florida, South Carolina, North Carolina, Virginia, West Virginia, Kentucky and Tennessee. Membership varies over the years from about 200 to 500 active members. Membership is composed of professors, research scientists, teachers and extension specialists from Universities, State, Federal and private research organizations, and industry. The Southern Region also contains a student section, the Association of Collegiate Branches, which is composed of student clubs from departments of horticulture and plant science across the region. The focus of the Southern Region is the Annual Meeting, which is held every February in conjunction with the Southern Association of Agricultural Scientists (SAAS). The Annual Meeting consists of presentations of scientific papers, student papers and judging competition, commodity group meetings, and awards presentations.

Goals:

- **Encourage and facilitate the mutual exchange of ideas and information concerning horticultural research, extension, education, and industry in the south.**
- **Promote stronger bonds among horticulturists throughout the southern regions.**
- **Encourage participation in the national society of the American Society for Horticultural Science.**

Join us and become a part of the Tradition.

President

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PROGRAM

2024 ANNUAL MEETING

Southern Region

American Society for Horticultural Science

February 2-4, 2024

Atlanta, GA

FRIDAY

7:00 am - 6:00 pm	Registration Hotel Lobby
9:00 am - 5:00 pm	ASHS Board of Directors Chastain J
8:00 am - 5:00 pm	Southern Fruit Workers Chastain H
10:00 am - 12:00 pm	ACB Club Share and Networking Chastain G
12:00 pm - 5:00 pm	ACB Group Activities, Tour, and Meal Chastain G
1:00 pm - 5:00 pm	Horticulture Administrators Chastain B
5:00 pm - 6:30 pm	Executive Committee Meeting Chastain B
5:00 pm or TBA	ACB Mixer TBA Chastain G

SATURDAY

7:00 am - 6:00 pm	Registration The Overlook
8:00 am - 10:00 pm	Poster room - Set Up Savannah Ballroom
8:00 am - 12:00 pm	ACB Judging Contest Set Up Chastain 1/2
8:00 am - 10:30 am	J. B. Edmond Undergraduate Student Paper Competition. Chastain J
8:00 am - 12:30 pm	Norman F. Childers M.S. Graduate Student Paper Competition Chastain F
8:00 pm - 12:30 pm	Fruit Crops Section Chastain I
8:00 am - 8:45 am	Education Section Chastain G
9:00 am - 11:45 am	Extension Section Chastain G
1:00 pm - 2:45 pm	Watermelon Research Group Chastain D
9:30 am - 5:00 pm	Posters Authors Mount Posters Savannah Ballroom
10:00 am - 12:00 pm	J. Benton Storey Horticulture Judging Contest Chastain 1/2
12:00 pm - 5:00 pm	Poster Section Viewing Poster Judging - Author at Even Number Posters Poster Judging - Author at Odd Number Posters

1:00 pm - 5:00 pm	Savannah Ballroom Warren S. Barham Ph.D. Student Paper Competition Chastain F
1:00 am - 3:30am	Vegetable Crops Section Chastain I

SUNDAY

7:00 am - 10:45 am	Registration The Overlook
8:00 am - 10:45 pm	Poster Section Viewing Savannah Ballroom
8:00 am - 10:45 am	Vegetable Crops Section Chastain E
8:00 am - 11:00 am	Floriculture, Ornamentals and Turf Section Chastain C
8:00 am - 10:45 am	Fruit Crops Section Chastain A
8:00 am - 11:00 am	Postharvest & Biotechnology Section Chastain I
9:00 am - 10:45am	ACB Business Meeting Chastain 1/2
11:00 am - 12:30 pm	Annual Business Meeting and Award Program Chastain 1/2

SAAS Program

2:30 pm - 3:30 pm	SAAS Board Meeting Chastain 1/2
4:00 pm - 4:30 pm	SAAS General Business Meeting Chastain 1/2

SAAS Social

5:00 -	Grand Loft (Southern Exchange)
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REGISTRATION

Friday 7:00 am - 6 pm
Hotel Lobby
Saturday 7:00 am - 6 pm
The Overlook
Sunday 7:00 am – 10:45 am
The Overlook

FRIDAY, February 2, 2023

ACB Activities

Room: Chastain G
Time: 10:00 - 12:00 Club Share and
Networking
12:00-5:00 Activity/Tour TBA
5:00 – Mixer exact time/place TBA
Presiding: Morgan Brown, ACB-President
Nate Phillips, ACB Advisor

SRASHS Executive Committee

Room: Chastain B
Time: 5:00 - 6:30
Presiding: Kathryn Fontenot, Chair

ASHS Board of Directors

Room: Chastain J
Time: 9:00 - 5:00
Presiding: Mike Neff, Coordinator

Working Groups

Listed at end of program

SATURDAY, February 3, 2023

J. BENTON STOREY UNDERGRADUATE JUDGING CONTEST

Room: Chastain 1/2
Time: 8:00 - 12:00 Contest Set-Up
12:00-5:00 Judging Contest
5:00 -until Scoring contest
Presiding: Madison Goeppinger, ACB
President-Elect
Nate Philips, ACB Advisor

J. B. EDMOND UNDERGRADUATE STUDENT PAPER COMPETITION

Room: Chastain J
Presiding: Morgan Brown,
ACB-President, Moderator
Elina Coneva, SRASHS President,
Courtesy Welcome to Undergrads
Yan Chen, Section Chair & Judging
Coordinator

Abstracts: To publish abstract in *HortScience*, see
instructions at end of program.
Submit on disk at meeting or email to
Chair: yachen@agcenter.lsu.edu

8:00-10:30 - Order of Presentations roughly at
15 min intervals

1. **Comparison of Hydroponic Butterhead Lettuce Grown in Reject Water from A Reverse Osmosis System, Municipal Water, and Purified Water.** Abby Pace^{1,2*}, Kimberly A. Williams¹, ¹1712 Claflin Rd. Rm 2021, Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS 66506; ²358 Agricultural Hall, Horticulture and Landscape Architecture Department, Oklahoma State University, Stillwater, OK 74078 (abby.pace10@okstate.edu).
2. **Effect of Salinity and Nutrient Concentrations on Floating Treatment Wetland Performance.** Heather Motro*, Sarah White, and Clare Escamilla, Department of Plant and Environmental Sciences, Clemson University, 167 Poole Agricultural Center, Jersey Ln, Clemson, SC 29634 (hmotro@g.clemson.edu)
3. **Effects of Different Root Zone Temperatures on Plant Growth, Nutrient Uptake, and Vitamin A Content of Hydroponically Grown Lettuce.** Madeline Mocio*, Bruce L. Dunn, Amandeep Kaye, Charles Fontanier, and Lu Zhang, Department of Horticulture and Landscape Architecture, Oklahoma State University, 358 Ag Hall, Stillwater, OK 74078-6027. (madeline.mocio@okstate.edu)
4. **Horseradish Seed Production Among Various Illinois Accessions and Varieties.** Kayla Grey and S. Alan Walters, School of Forestry and Horticulture, Southern Illinois University, Carbondale, IL 62901 (kayla.grey@siu.edu)

5. Impact of Bine Training Number on Yield and Plant Growth of Six Hop Cultivars in Arkansas. Megan Jo Daily^{1*}, Keilah Barney², Renee Threlfall³, Aaron Cato⁴, Luping Qu⁵, and Amanda McWhirt⁴,¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²1749 State Hwy 818, Arkansas Agricultural Experiment Station Fruit Research Station, Clarksville, AR 72830, ³2650 N. Young Ave., Department of Food Science, University of Arkansas, Fayetteville, AR 72704, ⁴2301 S. University Ave., Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR 72204, ⁵455 Research Drive, Department of Horticulture, North Carolina State University, Mills River, NC 28759. (amcwhirt@uada.edu)

6. Is Watermelon Jerky Safe to Consume? Sydney Love^{1*}, Charles Fontanier², Cristina Popovici³, Ravi Jadeja⁴, ¹Langston University, Langston, OK, 73050, ²Department of Horticulture & Landscape Architecture, Oklahoma State University, OK, 74078, ³Technical University of Moldova, Moldova, ⁴Department of Animal & Food Sciences, Oklahoma State University, OK, 74078. (sydney.q.love@langston.edu).

7. Optimizing Nitrogen Fertilization Programs for Establishing Tea, *Camellia sinensis* in A Mississippi River Alluvial Soil. Aris Williams* and Yan Chen, 104 Sturgis, School of Plant, Environment, and Soil Sciences, Louisiana State University, Baton Rouge, LA, 70803. (awil598@lsu.edu)

8. Photographing and Identifying Herbaceous Plants for Pl@ntNet at The Botanical Garden at Oklahoma State University. Kristal A. Casey and Lou Anella, Department of Horticultural and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078-5061. (kristal.casey@okstate.edu)

9. The Effects of Foliar Silicon on Salt Tolerance in Tomato. Laura Lothridge^{1*}, Maria Benlloch². ¹Department of Plant and Environmental Sciences, Clemson University, Clemson, SC, ²Department of Agronomy, University of Cordoba, Cordoba Spain. (llothri@clemson.edu)

10. When Are Peach Roots More Efficient at Up-taking Nutrients? Allison Lewis* and Juan Carlos Melgar, Department of Plant and

Environmental Sciences, Clemson University, Clemson, SC 28681. (aml8@clemson.edu)

NORMAN F. CHILDERS M.S. GRADUATE STUDENT PAPER COMPETITION

Room: Chastain F

Presiding: Christine Coker, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: christine.coker@msstate.edu

8:00 – 12:30 Order of Presentations roughly at

1. **Assessing the Potential for Microbial Activity in Hammermilled Wood Fibers of Five Tree Species.** Amanda Mizell^{1*}, Jeb S. Fields¹, Damon Abdi¹, and Brian Jackson², ¹Louisiana State University Agricultural Center, Hammond Research Station, Hammond, LA 70403, ²North Carolina State University, Department of Horticultural Science, Raleigh, NC 27607. (amizel5@lsu.edu)
2. **Bridging the Gap: A Comprehensive Needs Assessment Survey to Identify Food Safety Knowledge Gaps Among Indoor Growers in the United States.** Tuany Volz^{1*}, Camila Rodrigues¹, Laurel D. Dunn², Armitra Jackson-Davis³, and Rhuanito S. Ferrarezi⁴, ¹CASIC Building, 559 Devall Drive, Horticulture Department, Auburn University, Auburn, AL 36849, ²20211 Food Science, 100 Cedar St., Department of Food Science and Technology, University of Georgia, Athens, GA 30602, ³Carver Complex Thomas Wing RM A-106, Department of Food and Animal Sciences, Alabama A&M University, Huntsville, AL 35811, ⁴1111 Miller Plant Sciences, 120 Carlton Street, Department of Horticulture, University of Georgia, Athens, GA 30602. (tfv0003@auburn.edu)
3. **Can Pine Bark Serve as an Alternative to Coco Coir for Long-Cane Raspberries in the Southeastern US?** Lisa Rayburn^{1*}, Brian Jackson¹, Joshua Mays², Walt Webb³, James Hewitt³, David Childers³, and Gina Fernandez¹, ¹Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, ²TriEst Ag Group, Inc. Greenville NC, 27835, ³Lewis Nursery and Farms, Rocky Point, NC 28457. (lisa_rayburn@ncsu.edu)

4. **Colorful Insights on Anthocyanin Content and Profiles of North Carolina Strawberry Germplasm.** Brianna Haynes^{1,2*}, Gina Fernandez¹, Guoying Ma^{1,2}, Penelope Perkins-Veazie^{1,2} ¹Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, ²Plants for Human Health Institute, North Carolina State University, Kannapolis, NC 28081. (bnhaynes@ncsu.edu)
5. **Comparison of Survival of Generic E. coli on New Versus Reused Plastic mulch in Field Vegetable Production.** Autumn Burnett^{1*}, Faith Critzer², Blanca Ruiz Llacsahuanga², and Timothy Coolong¹, ¹1111 Miller Plant Sciences, Department of Horticulture, University of Georgia, Athens, GA 30602, ²100 Cedar Street, Department of Food Science and Technology, University of Georgia, Athens, GA 30602. (tcoolong@uga.edu).
6. **Developing Cultural Practices for High Tunnel Production of Water Spinach (*Ipomea aquatica*) in Georgia.** Shelby Bohensky* and Timothy Coolong, Department of Horticulture, University of Georgia, Athens, GA 30602. (tcoolong@uga.edu)
7. **Effects of Biochar on Organic Fertilizers.** Johnathan Pulliam*, Kate Cassity-Duffey, Miguel Cabrera, Timothy Coolong, and Anish Malladi, Department of Horticulture, University of Georgia, Athens, GA, 30602 (james.pulliam@uga.edu)
8. **Effects of Combining Controlled Release Fertilizer and Organic Matter to Nutrient Retention in Green Roof Media.** Pennington Mackenzie^{1*}, Glenn Fain², Audry Gamble², Jerney Pickens² and Daniel Wells¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL-36849. (Map0107@auburn.edu)
9. **Effects of Hurricanes on Vascular Function and Canopy Recovery in Citrus Spp.** Gillian Michalczyk^{1*}, Yangyang Song², Raiza Castillo², William Hammond², Christopher Vincent¹, ¹Horticultural Science Department Citrus and Research Education Center, 700 Experiment Station Road, University of Florida. Lake Alfred, FL 33850., ²Agronomy Department, 2005 SW 23rd Street, Gainesville, FL 32608. (Gzeng.michalczyk@ufl.edu)
10. **Evaluation of Long Day and Short Day Strawberry Cultivars in a Commercial North Carolina Greenhouse.** Joy Johnson* and Mark Hoffmann, Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695. (jjohns36@ncsu.edu)
11. **Exploring How to Irrigate Pierce's Disease Resistant Grapevines in South Carolina.** Annie Bruno* and Juan Carlos Melgar, Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29631. (aebruno@g.clemson.edu)
12. **Impact of Alternative Packaging on Grape (*Vitis*) Wine Quality.** M. Walker Bartz* and Renee T. Threlfall, 2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704. (mbartz@uark.edu)
13. **Influence of Rootstocks on Nutrient Allocation in Peach.** Richardson Bien-aime* and Juan C. Melgar, Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29634. (rbienai@clemson.edu)
14. **Nitrogen Fertilization Rates for Young Evergreen Blueberry (*Vaccinium corymbosum* interspecific hybrids) in Florida** Lauren Goldsby* and G. H. Nunez, Horticultural Sciences Department, University of Florida, Gainesville, FL 32611 (legoldsby@ufl.edu)
15. **Nutritional Evaluation in Peaches (*Prunus persica*) in the Southeastern USA.** Erwin Burgos^{1*}, Bernardo Chaves-Cordoba², Edgar Vinson¹, Juan Carlos Melgar³, Dario Chavez⁴ and Melba R. Salazar-Gutiérrez¹. ¹Department of Horticulture, Auburn University, ²College of Agriculture, Auburn University, Auburn, AL 36849, ³Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29634, Department of Horticulture, University of Georgia, Griffin, GA 30229. (mrs0145@auburn.edu)
16. **Reducing and Retaining Phosphorus Inputs in Activated Aluminum Amended Substrates.** Tara Daugherty^{1*}, Damon E. Abdi¹, Jeb S. Fields¹, and Jeff Beasley², ¹21549 Old Covington Hwy, Hammond Research Station, Louisiana State University Agricultural Center, Hammond, LA 70403, ²226 J.C. Miller Hall, School of Plant, Environmental, and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA, 70803. (dabdi@agcenter.lsu.edu)

17. **Selection and Cultivation of *Myrica rubra* Lour. as an Edible Landscape Plant in the Southeast United States.** Zachary Hutzell* and Donglin Zhang, Department of Horticulture, University of Georgia, Athens, GA 30602. (donglin@uga.edu)

18. **Testing Different Raspberry Cultivars for Production in Mississippi.** Apphia Santy*, Guihong Bi, Tongyin Li, Department of Plant and Soil science, Mississippi State University, Mississippi State, MS 39762 (as5152@msstate.edu)

WARREN S. BARHAM Ph.D. GRADUATE STUDENT PAPER COMPETITION

Room: Chastain F

Presiding: Christine Coker, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: christine.coker@msstate.edu

1:00 – 5:00: Order of Presentations roughly at 15 min intervals

1. **3D Phenotypic Analysis of Different Rootstock Effects on *P. persica* Branch Morphology and Architecture.** Jordan Knapp-Wilson^{1*}, Alexander Bucksch², Dario J. Chavez³, ¹Cowart Building - Rm 214, Institute of Plant Breeding, Genetics, Genomics, University of Georgia, Griffin Campus, Griffin, GA 30223, ²Marley Building - Rm 541C, School of Plant Sciences, University of Arizona, Tucson, AZ 85721, ³Stress Physiology Building - Rm 105, Department of Horticulture, University of Georgia, Griffin Campus, Griffin, GA 30223. (jrk88473@uga.edu)

2. **A 2-Dimensional Analysis of How Root Architecture and Morphology Are Influenced by Stratified Substrate Systems.** Kristopher S. Criscione* and Jeb S. Fields, Hammond Research Station, Louisiana State University Agricultural Center, 21549 Old Covington Hwy., Hammond, LA 70403. (kcrisc2@lsu.edu)

3. **Analysis of Early Berry Color and End Anthocyanin Content in Blackberry.** Katelyn Lust-Moore^{1*}, Margaret Worthington¹, Renee Threlfall², Scott Lafontaine², Samuel Fernandes³, Jackie Lee⁴, ¹Department of

Horticulture, University of Arkansas, Fayetteville, AR 72701, ²Food Science Department, University of Arkansas, Fayetteville, AR 72701, ³Crop, Soil, and Environmental Sciences Department, University of Arkansas, Fayetteville, AR 72701, ⁴Fruit Research Station, UADA, Clarksville, AR 72830. (kes056@uark.edu)

4. **Assessing Color of Wines Produced from Co-fermentation of Noble (*Vitis rotundifolia*) and Merlot (*Vitis vinifera*) Grapes.** Amanda J. Fleming* and Renee T. Threlfall, 2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704. (ajflemin@uark.edu)

5. **Bitter Acid Analysis of Hops (*Humulus lupulus* L.) Produced in North Central Oklahoma.** Katie Stenmark*, Charles Fontanier, Niels Maness, and Bruce Dunn, Department of Horticultural and Landscape Architecture, Oklahoma State University, Agriculture Hall, Stillwater OK 74075. (katie.stenmark@okstate.edu)

6. **Community Garden Signage as a Tool for Engagement.** Jonah E Trevino^{1*}, Leslie Thompson², Laura Fischer³, Vikram Baliga¹, Catherine Simpson¹, ¹Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409, ²Department of Animal and Food Sciences, Texas Tech University, Lubbock, TX 79409, ³Department of Agriculture Education and Communications, Texas Tech University, Lubbock, TX 79409. (catherine.simpson@ttu.edu)

7. **Evaluation of Yield and Quality of Four Herbal Microgreen Species Affected by Seeding Density and Substrate Type.** Jacob Arthur* and Tongyin Li, Department of Plant and Soil Sciences, Mississippi State University, MS 39762.

8. **Exploring Canopy Cover by Drone Imagery, Cover Crop Biomass and Weed Biomass in Organic Cover Crop Field Trial for Fall.** Sai Prakash Naroju*, Sochinwechi Nwosisi, Shahidulah Chowdhury and Dilip Nandwani. Department of Agriculture and Environmental Sciences, College of Agriculture, Tennessee State University, Nashville, TN 37209. (dnandwan@tnstate.edu)

9. **Hydraulic Properties and Nutrient Leaching in Coarse Textured Soils Treated with Biochar.** Erick David Gutierrez Benites^{1*}, Paul Bartley¹, Sushil Adhikari², Joao Vitor Goncalves¹, Luan Alves¹, Vivian Chimezie Usha², Bijoy Biswas², Andre Luiz Biscaia Ribeiro da Silva¹. ¹Department of Horticulture, Auburn University, Auburn, AL, 36849, ²Department of Biosystem Engineering, Auburn University, Auburn, AL, 36849. (edg0030@auburn.edu)

10. **Novel CISUN25-26-27a Alleles and their Association with Ovary Shape Variation in Watermelon.** Samuel Manthi^{*1}, Douglas Vines¹, and Cecilia McGregor^{1,2}. ¹Department of Horticulture, University of Georgia, ¹111 Miller Plant Sciences Building, Athens, GA 30602, USA, ² Institute of Plant Breeding, Genetics and Genomics, University of Georgia, Athens, GA 30605. (samuel.josiah@uga.edu)

11. **Performance of *Matricaria recutita* and *Petroselinum crispum* Varieties in an Indoor Vertical Hydroponic System.** Rebekah C.I. Maynard* and Leonardo Lombardini. Department of Horticulture, University of Georgia, Athens, GA 30602. (rebekah.maynard@uga.edu)

12. **Responses of Thrip Infested Cotton Seedlings to Neonicotinoid Seed Treatments.** Aqeela Sehrish^{1*}, Megha Parajulee², Suhas Vyavhare², Cade Coldren¹ and Catherine Simpson¹. ¹Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409, ²Texas A&M AgriLife Research & Extension Center at Lubbock, Lubbock, TX 79403. (aqeela.sehrish@ttu.edu)

13. **Three New Disease Resistant Crape Myrtle (*Lagerstroemia*) Cultivars for Southern Landscape.** Yongjun Yue^{1*} and Donglin Zhang^{1,2}. ¹Institute of Plant Breeding, Genetics and Genomics, University of Georgia, Athens, GA, 30602, ²Department of Horticulture, University of Georgia, Athens, GA, 30602. (donglin@uga.edu)

14. **Use of Artificial Intelligence and Hyperspectral Image to Estimate Crop Development and Physiological Properties in Lettuce.** Joao Vitor Goncalves^{1*}, Renan Falcione², Marcos Rafael Nani², Camila

Rodrigues¹, Andre Luiz Biscaia Ribeiro da Silva¹. ¹Department of Horticulture, Auburn University, Auburn, AL, 36849, ²Department of Agronomy, State University of Maringa, Brazil. (jzf0105@auburn.edu)

15. **Yellow Squash and Zucchini Cultivar Evaluation for Tolerance to Whitefly and Whitefly-Transmitted Viruses in South Georgia.** Nirmala Acharya^{1*}, Sudeep Bag², David G. Riley³, Juan C. Diaz-Perez¹, Timothy Coolong⁴, Manish Kumar², and Theodore McAvoy¹. ¹Department of Horticulture, University of Georgia, Tifton, GA 31793, ²Department of Plant Pathology, University of Georgia, Tifton, GA 31793, ³Department of Entomology, University of Georgia, Tifton, GA 31793, ⁴Department of Horticulture, University of Georgia, Athens, GA 30602. (nirmala.acharya@uga.edu)

POSTERS

Room: Savannah Ballroom

Presiding: Paul Bartley, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: paul.bartley@auburn.edu

Set-Up Room: Saturday, 8:00-10:00

Mount Posters: Saturday, 10:00-noon

Poster Viewing

Saturday 12:00 pm to 5:00 pm

Sunday 8:00-10:45 am

Authors at their poster:

Saturday, 1:00-3:00 pm even numbered posters

Saturday, 3:00-5:00 pm odd numbered posters

Take-down: Sunday, 1:00-3:00 pm

Student Poster Competition

UG = Indicates undergraduate poster titles

G = Indicates graduate poster titles

Fruit Crops

1) **Evaluation of Early-Ripening Blueberry Cultivars in Open-Field and High Tunnel Production Systems.** James D. Spiers*, Emily K. Wismer, Elina D. Coneva, Sushan Ru, and Melba R. Salazar-Gutierrez, Department of Horticulture, Auburn University, Auburn, AL 36849. (ekw0038@auburn.edu)

- 2G) **Exploring the Physiological Effects of Drought on South Mississippi Grown Bunch Grapes.** Haley N. Williams*, Eric T. Stafne, and Jenny B. Ryals. South MS Branch Experiment Station, Mississippi State University, Poplarville, MS 39470. (hnnw111@msstate.edu)
- 3) **Optimizing Peach Tree Cultivation: Enhancing Growth and Efficiency of MP29 Rootstock with Colored Mulches.** Edgar L. Vinson III¹*, Jeremy M. Pickens², Bernardo Chaves-Córdoba³, Matthew D. Price¹, and Kyle T. Owsley², ¹Chilton Research and Extension Center, 120 County Road 756, Clanton, AL 35045, ²Ornamental Horticulture Research Center, 411 North McGregor Avenue, Mobile, AL 36689, ³College of Agriculture, 107 Comer Hall, Auburn University, AL 36849. (vinsoed@auburn.edu)
- 4G) **Physiological responses of a newly planted peach orchard (*Prunus persica*) in the Southeastern USA.** Erwin Burgos¹, Edgar Vinson¹, Juan Carlos Melgar², Bernardo Chaves-Cordoba¹, Dario Chavez³ and Melba R. Salazar-Gutiérrez¹*, ¹Department of Horticulture, Auburn University, Auburn, AL 36845. ²Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29634, ³Department of Horticulture, University of Georgia, Griffin, GA 30229. (mrs0145@auburn.edu)
- 5UG) **Using *Hibiscus sabdariffa* floral bud length to determine harvest date.** Isaiah Hodge*, I. Charles, and T.W. Zimmerman, University of the Virgin Islands, School of Agriculture, Agricultural Experiment Station, 10.000 Castle Burke, Kingshill, VI 00850. (tzimmer@uvi.edu)

Floriculture and Ornamental Crops

- 6) **Evaluating Native Christmas Tree Species in North Mississippi.** Jeff Wilson*, John Kushla, and Susan Worthey. 5421 MS-145 North Mississippi Research and Extension Center, Verona, MS 38879 v (jeff.wilson@msstate.edu)
- 7G) **Evaluating the Effects of Pruning on Celosia Growth and Flowering.** Jenny B. Ryals¹*, James M. DelPrince², Scott A. Langlois¹, Haley N. Williams¹, Patricia R. Knight¹, and Christine E. H. Coker², ¹South

Mississippi Branch Experiment Station, Mississippi State University, Poplarville, MS 39470, ²Coastal Research and Extension Center, Mississippi State University, Biloxi, MS 39532. (j.ryals@msstate.edu)

- 8UG) **Consumer Preferences for Achimenes in Landscape Settings.** Abby Pace¹*, Cheryl R. Boyer¹, Chad T. Miller², and Kimberly A. Williams¹, ¹1712 Claflin Rd. Rm 2021, Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS 66506, ²1173 Campus Delivery, Horticulture and Landscape Architecture Department, Colorado State University, Fort Collins, CO 80523. (abby.pace10@okstate.edu)
- 9G) **Growth and floral characteristics of wild and cultivated genotypes of *Ratibida columnifera* grown on a common field site.** Mason Marshall¹*, Michael A. Arnold¹, Tim Hartmann¹, Isabel Vales¹, Calvin Trostle². ¹495 Horticulture Rd, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133, ²1102 East Drew St, Texas A&M AgriLife Research & Extension Center, Lubbock, TX 79403-6603. (masonmarshall@tamu.edu)
- 10UG) **Flowering and Pollinator Visits to Herbaceous Perennials Under Deficit Irrigation.** Madison Coyle*, Lindsey Trinkle, Audrey Field, Laura Sharlow, and Derald A. Harp. College of Agricultural Sciences and Natural Resources, Texas A&M University-Commerce, Commerce, TX 75429. (Derald.Harp@tamuc.edu)
- 11G) **Stomatal Conductance, Photosynthetic Efficiency, and Relative Chlorophyll Content of Herbaceous Perennials Under Deficit Irrigation.** Lindsey Trinkle*, Madison Coyle, Audrey Field, Laura Sharlow, and Derald A. Harp. College of Agricultural Sciences and Natural Resources, Texas A&M University-Commerce, Commerce, TX 75429. (Derald.Harp@tamuc.edu)
- 12UG) **Optimization of disinfection protocol for micropropagation of crapemyrtle 'Natchez'.** Trishia Nguyen, Rushton Trees, Alanna Layton, Matthew Schiele, Sofya Kan, Harshali Sharma, Bin Wu, and Hongmin Qin*, oBiology Department,

Texas A&M University, College Station, TX 77853-3258. (hqin@bio.tamu.edu)

- 13UG) Pl@ntNet App - Photographing and Identifying Herbaceous Plants for The Botanical Garden at Oklahoma State University.** Kristal A. Casey and Lou Anella, Department of Horticultural and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078-5061. (kristal.casey@okstate.edu)

Vegetable Crops

- 14UG) Cultivar and Bine Training Number Impacts on Harvest Attributes of Arkansas-Grown Hops.** Megan Jo Daily¹, Keilah Barney², Renee Threlfall³, Scott Lafontaine³, Luping Qu⁵, Amanda McWhirt^{4*}, ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²1749 State Hwy 818, Arkansas Agricultural Experiment Station Fruit Research Station, Clarksville, AR 72830, ³2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, ⁴2301 S. University Ave, Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR 72204, ⁵455 Research Drive, Department of Horticulture, North Carolina State University, Mills River, NC 28759. (amcwhirt@uada.edu)
- 15) Applying Humic Acid In-Furrow: Are There Benefits?** Jonathan Price, Ronald C. Stephenson*, Don Lee, and Meghan Sindelar, Department of Agronomy and Horticulture, University of Nebraska-Lincoln, Lincoln, NE 68503. (rstephenson9@unl.edu)
- 16G) Effects of Plant Growth Regulators for Enhanced Sweetpotato Slip Propagation.** Kerington L. Bass*, Dr. Lorin Harvey, Dr. Guihong Bi, Dr. Richard Harkess, Taylor Blaise, Apphia Santy. 32 Creelman St, Department of Plant and Soil Science, Mississippi State University Starkville, MS, 39762. (kb3270@msstate.edu)
- 17) Controlling *Salmonella enterica* in roots of indoor-grown lettuces.** Elisa T. Sandoval*, Caroline Blanchard, Marlee Trandel, Andre L.B.R. da Silva, and Camila Rodrigues. Department of Horticulture, Auburn University, Auburn, AL 36849. (emt0053@auburn.edu)

- 18G) Enhancing Pollen Viability and Fruit Yield of Tomato Plants under Heat Stress.** Chungkeun Lee*, Joshua T. Harvey and Daniel I. Leskovar, Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801. (d-leskovar@tamu.edu)
- 19) Critical Nitrogen Requirements for Open-field Fresh-market Tomato Production in North Mississippi: Preliminary Results.** Ibukun T. Ayankojo*, Thomas Horgan and Jeff Wilson. 5421 MS-145 North Mississippi Research and Extension Center, Verona, MS 38879 (ita10@msstate.edu)
- 20G) Evaluating the Combined Effects of Gypsum and Split-Root System on Cherry Tomatoes (*Solanum lycopersicum* var. *cerasiforme*) and Red Kale (*Brassica napus* L. var. *Pabularia* 'KX-1') Salinity Tolerance Threshold.** Dorcas Lukwesa^{1*}, Jimena Lopez², Rhema Oyedele², Paul C. Bartley¹, Daniel E Wells¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849. ²EARTH University, Mercedes, Limón Province, Costa Rica (dzl0102@auburn.edu)
- 21) Effect of Intercropping Bell Pepper and Cut Flowers on Yield, Economics, and Arthropod Diversity.** Ronald C. Stephenson. Department of Agronomy and Horticulture, University of Nebraska-Lincoln, Lincoln, NE 68503. (rstephenson9@unl.edu)
- 22G) Is Locally Sourced Biochar and Poultry Litter the Solution to Improving Soil Health and Sustainably Producing Tomatoes in South Georgia?** Emilio Suarez^{1*}, Kate Cassity-Duffey¹, Juan C. Diaz-Perez¹, Henry Y. Sintim², and Theodore McAvoy¹, ¹Department of Horticulture, University of Georgia, Tifton, GA 31793, ²Department of Crop and Soil Sciences, University of Georgia, Tifton, GA 31793. (emilio.suarez@uga.edu)
- 23) Evaluating the impact of insecticide timing and varietal resistance on melonworm (*Diaphania hyalinata*) in Arkansas pumpkins.** Ryan F. Keiffer*, Aaron J. Cato, and Amanda L. McWhirt, Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR, 72204. (rkeiffer@uada.edu)

- 24G) Rotenone Concentrations in Jicama.** Daryl A. Richards*, Jr. and T.W. Zimmerman, University of the Virgin Islands, School of Agriculture, Agricultural Experiment Station, 10.000 Castle Burke, Kingshill, VI 00850. (daryl.richards@uvi.edu)
- 25) Evaluation of a Bee Vectored Biological Fungicide System in Arkansas Strawberries.** Keilah Barney¹*, Aaron Cato², Jon Zawislak³, and Amanda McWhirt², ¹Arkansas Agricultural Experiment Station, Fruit Research Station, University of Arkansas Systems Division of Agriculture, Clarksville, AR 72830, ²Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR 72204, ³Department of Entomology and Plant Pathology, University of Arkansas System Division of Agriculture, Little Rock, AR 72204. (amcwhirt@uada.edu)
- 26G) Substrate Combinations for Reduced Perlite Reliance in Tomato Cultivation.** Arnold Katende*, Dorcas Lukwesa, Gift Bender, Mollie R. Smith, and Daniel E. Wells, 101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849. (azk0169@auburn.edu)
- 27) Evaluation of Pea Varieties for Productivity in North Mississippi.** Ibukun T. Ayankojo, Thomas Horgan* and Jeff Wilson. 5421 MS-145 North Mississippi Research and Extension Center, Verona, MS 38879 (ita10@msstate.edu)
- 28UG) Plant Growth, Nutrient Uptake, and Vitamin A Content of Hydroponic Spinach and Mustard Greens with Supplemental Seaweed Extract.** Madeline Moccio, Bruce L. Dunn, Amandeep Kaur, Charles Fontanier, and Lu Zhang, Department of Horticulture and Landscape Architecture, Oklahoma State University, 358 Ag Hall, Stillwater, OK 74078-6027. (madeline.moccio@okstate.edu)
- 29) Influence of N & Ca fertilization in greenhouse lettuce across four seasons.** Jeff Wilson*, Bikash Adhikari, Ibukun T. Ayankojo, and Thomas Horgan. 5421 MS-145 North Mississippi Research and Extension Center, Verona, MS 38879 (jeff.wilson@msstate.edu)
- 30UG) Spinach, hot or not?** Jarred Lake, Shuyang Zhen, 1495 Horticulture Rd, Department of Horticulture Science, Texas A&M University, College Station, TX 77843. (lakejarred@tamu.edu)
- 31) Influence of nitrogen rates on the yield of organic Kale and Swiss Chard in a vertical growing system.** Andruw Jones¹, Sochinwechi Nwosisi¹, Sai Prakash Naroju¹, Shahidulah Chowdhury¹, Anthony Witcher² and Dilip Nandwani¹, ¹Department of Agriculture and Environmental Sciences, College of Agriculture, Tennessee State University, Nashville, TN 37209, ²Department of Agriculture and Environmental Sciences, College of Agriculture, Tennessee State University, Otis Floyd Nursery, McMinnville, TN 37209. (dnandwan@tnstate.edu)
- 32G) Survival and growth of 8 cultivars of public domain hops (*Humulus lupulus* L.) produced in North Central Oklahoma.** Katie Stenmark*, Charles Fontanier, Niels Maness, and Bruce Dunn, Department of Horticultural and Landscape Architecture, Oklahoma State University, Agriculture Hall, Stillwater OK 74075. (katie.stenmark@okstate.edu)
- 33) No-till Cover Crop Effects on Organic Vegetable Production.** Kate Cassity-Duffey*, Tim Coolong, Nick Basinger, J. Johanthan Pulliam, and Charles E. Smith, Department of Horticulture, University of Georgia, Athens, GA 30602. (katecass@uga.edu)
- Cross-Commodity**
- 34G) AgWater Safety: Establishing a Microbial Water Testing Program for Produce Growers in Alabama.** Zoila R. Chevez¹, Rebecca Catalenna², Kristin Woods³ and Camila Rodrigues¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, AL 36840, ²1070 Schillinger Rd., Alabama Cooperative Extension System, Mobile, AL 36608-5298, ³2400 E Coats Ave, Tuskegee University Cooperative Extension, Linden, AL 36748. (zdc0005@auburn.edu)
- 35G) Developing Floating Wetland Scaffolds Using Non-Plastic Materials.** Ada Camila Montoya¹*, Cailee Sprouse¹, William H.J. Strosnider², and Sarah A. White¹.

¹Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29634, USA, ²Baruch Marine Field Laboratory, University of South Carolina, Georgetown, SC 29440, USA. (acmonto@clemson.edu)

- 36G) Evaluating Nutrient Release and Plant Growth of a Novel Poultry-Litter Derived Fertilizer.** Austin Lindquist^{1*}, Rishi Prasad², Glenn Fain¹, Eve Brantley², and Paul Bartley¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849, ²201 Funchess Hall, Department of Crop, Soil, and Environmental Sciences, Auburn University, Auburn, AL 36849. (all0091@auburn.edu)

SECTION TITLES

EDUCATION

Room: Chastain G

Presiding: Catherine Simpson, Chair
Education

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: catherine.simpson@ttu.edu

- 8:00 G8R Tomato Grower: A Mobile Application Used to Teach Horticulturists about Plant Physiology.** Gerardo H. Nunez and G. Baerga, Horticultural Sciences Department, University of Florida, Gainesville, FL 32611 (g.nunez@ufl.edu)

- 8:15 Influence of introductory horticulture classes in Texas on students' propensity to pursue a career in horticulture.** Michaela Bledsoe*, Keith Frost, Rafael Bakhtavoryan, and Derald A. Harp. College of Agricultural Sciences and Natural Resources, Texas A&M University-Commerce, Commerce, TX 75429 (Derald.Harp@tamuc.edu).

EXTENSION

Room: Chastain G

Presiding: Natalie Bumgarner, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to: nbumgar@utk.edu

- 9:00 Louisiana Landscape Education Days: Developing a Statewide Resource for Stakeholders.** Damon E. Abdi* and Jeb S. Fields, Hammond Research Station, Louisiana State University Agricultural Center, Hammond, LA 70403. (DAbdi@agcenter.lsu.edu)

- 9:15 Evaluating Cost for Farmer's Ratatouille; A Value-Added Food Product from Surplus Produce.** Andrea Myers^{1*}, Renee Threlfall¹, Rogelio Contreras², Steve Jenkins³, Jeyam Subbiah¹, John Swenson¹, and Rodrigo Salas², ¹2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, ²University of Arkansas, Sam M. Walton College of Business, University of Arkansas, Fayetteville, AR 72701, ³One College Drive, Brightwater, Center for the Study of Food, Northwest Arkansas Community College, Bentonville, AR 72712. (alm028@uark.edu)

- 9:30 Expanding the Arkansas Quality Wine Program.** Renee T. Threlfall^{1*}, Amanda J. Fleming¹, and Amanda L. McWhirt², ¹2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704 and ²2301 S. University Ave., Cooperative Extension Service, University of Arkansas, Little Rock, AR 72204. (rthrelf@uark.edu)

- 9:45 Impactful Insights: Long-Term Effects of a Horticultural New-Media Marketing Extension Program.** Cheryl R. Boyer^{1*}, Lauri M. Baker², and Hikaru H. Peterson³, ¹1712 Claflin Rd. Rm 2021, Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS 66506, ²1408 Sabal Palm Dr., Department of Agricultural Education and Communication, University of Florida, Gainesville, FL 32611, ³1994 Buford Ave., Department of Applied Economics, University of Minnesota, St. Paul, MN 55108. (crboyer@ksu.edu)

- 10:00 Finding, implementing, and disseminating solutions to Armillaria root rot affecting the U.S stone fruit industry.** Juan Carlos Melgar*, Guido Schnabel, Greg Reighard, Chris Saski and Ksenija Gasic, Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29634. (jmelgaREAKr@clemson.edu)

10:15 Break**10:30 Raising the Bar: Developing a Grower Toolkit for the Rotating Cross-Arm (RCA) Trellis in Southeastern Blackberry.**

Lizzy Herrera^{1*}, Taunya Ernst¹, Emily Davis², Erika Henderson³, Aaron Cato¹, and Amanda McWhirt¹. ¹2301 S. University Ave., Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR 72204, ²2301 S. University Ave., Department of Communications, University of Arkansas System Division of Agriculture, Little Rock, AR 72204, ³1749 State Hwy 818, Arkansas Agricultural Experiment Station, Fruit Research Station, Clarksville, AR 72830. (lherrera@uada.edu)

10:45 Demonstrating Season-Long Approaches to Soil Health Building Practices.

Lizzy Herrera^{1*}, Amanda McWhirt¹, Colin Massey², Ryan Neal³, Jonathan McArthur⁴, and Matt Bertucci⁴. ¹2301 S. University Ave., Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR 72204, ²2536 North McConnel Ave., University of Arkansas System Division of Agriculture Cooperative Extension Service, Fayetteville, AR 72704, ³1204 SW 14th St. Suite 2, University of Arkansas System Division of Agriculture Cooperative Extension Service, Bentonville, AR 72712, ⁴316 Plant Sciences Building, Department of Horticulture, University of Arkansas System Division of Agriculture, Fayetteville, AR 72701. (lherrera@uada.edu)

11:00 Garden Center Retail Customer Purchasing Insights Based on Plant Species and Container Products.

Nathania Mangaoil and Ed Bush*, School of Plant, Environmental, and Soil Sciences, LSU AgCenter, 137 J. C. Miller Hall, Baton Rouge, LA 70803 (ebush@agcenter.lsu.edu)

11:15 Evaluation of a Plant-Based Antimicrobial Formulation on Control of Damping-Off and Other Plant Pathogens in Vegetable Seedlings.

Heather Kirk-Ballard^{1*}, Raj Singh², and Zhijun Liu³, ¹149 JC Miller Hall, School of Plant, Environmental and Soil Sciences, ²434 Life Sciences Bldg., Plant Pathology and Crop Physiology, ³143 Wilson Lab Building, School of Renewable Natural Resources,

Louisiana State University Agricultural Center, Baton Rouge, LA, 70803. (hkirkballard@agcenter.lsu.edu)

11:30 Veggie to Value: Creating Opportunities to Connect Growers to Value-Added Food Entrepreneurs.

Kamreon Riley ^{1*} and Amanda Philyaw Perez². 2650 Young Ave., ¹Department of Food Science, ²University of Arkansas, Fayetteville, AR 72704 2) 2301 S. University Ave., Department of Horticulture, University of Arkansas, Little Rock, AR 72204 (aperez@uada.edu)

11:45 Break for lunch**1:00 Shades of Change – Shifting Perceptions along the Journey to Water Conservation Adoption.**

Laura A. Warner^{1*}, Colby J. Silvert², John M. Diaz¹. ¹Department of Agricultural Education & Communication, University of Florida, PO Box 110540, Gainesville, FL 32611. ²Department of Plant Science and Landscape Architecture, University of Maryland, Fieldhouse Dr. 2119 Plant Sciences Building, College Park, MD 20742. (lsanagorski@ufl.edu)

1:15 Student-led community garden establishment for teaching and learning at The Botanic Garden at OSU.

Katie Stenmark*, Teal Hendrickson*, Bryce Waugh*, Victor Ware*, Charles Fontanier, and Bruce Dunn, Department of Horticultural and Landscape Architecture, Oklahoma State University, Agriculture Hall, Stillwater OK 74075. (katie.stenmark@okstate.edu)

1:30 Room to Grow! Urban Food Production Opportunities for Floridians Without Yards.

Sravani Pasula^{1*}, Laura Warner¹, and Catherine Campbell², ¹Department of Agricultural Education & Communication, University of Florida, PO Box 110540, Gainesville, FL 32611, ²Family, Youth and Community Sciences, University of Florida, PO Box 110310, Gainesville, FL 32611. (sravanipasula@ufl.edu)

1:45 A Granular Look at Agricultural Water Safety Practices and Perceptions Among US Produce Growers.

Dharmendra Kalauni^{1*}, Laura A. Warner^{1,2}, Matt Bengel¹, Michelle D. Danyluk³. ¹Department of Agricultural Education & Communication, University of Florida, PO Box 110540, Gainesville, FL 32611, ²Center for Land Use

Efficiency, University of Florida, ³UF/IFAS Citrus Research and Education Center, University of Florida, 700 Experiment Station Rd, Lake Alfred, FL, 33850-2243. (kalauni.d@ufl.edu)

2:00 Exploring Consumer Acceptance of Wildlife-Friendly Landscape

Maintenance: A Comparative Analysis based on Homeowners Association Membership. Dharmendra Kalauni^{1*}, Laura A. Warner^{1,2}, John Diaz¹, Jaret Daniels^{3,4}, Adam Dale⁴, Emily Marois⁵. Department of Agricultural Education & Communication, University of Florida, Rolfs Hall, PO Box 110540, Gainesville, FL 32611, ²Center for Land Use Efficiency, University of Florida, ³Florida Museum of Natural History & Department of Entomology and Nematology, 3251 Hull Road, Gainesville, FL 32611, ⁴Department of Entomology and Nematology, 3214 Steinmetz Hall, Gainesville, FL 32611, ⁵UF/IFAS Palm Beach County Extension, 559 N Military Trail, West Palm Beach, FL 33415. (kalauni.d@ufl.edu)

2:15 Gardener experience, knowledge, and identity: Do those who know more actually grow more? Sheri Dorn^{1*}, Julie Campbell^{2*}, Natalie Bumgarner³, and Heather Kirk-Ballard⁴, ¹Department of Horticulture, University of Georgia, 1109 Experiment Street, Cowart Building 116, Griffin, GA 30223, ²1111 Miller Plant Sciences, 120 Carlton Street, Athens, GA 30602, ³Department of Plant Sciences, University of Tennessee-Knoxville, 2505 EJ Chapman Dr., Knoxville TN 37996, ⁴School of Plant, Environmental, and Soil Sciences, LSU AgCenter, 104 Sturgis Hall, Baton Rouge, LA 70803. (sdorn@uga.edu)

2:30 Understanding the why of gardening motivations helps educators and retailers support the how much of garden spending. Natalie Bumgarner^{1*}, Sheri Dorn², Julie Campbell³, and Heather Kirk-Ballard⁴, ¹Department of Plant Sciences, University Tennessee-Knoxville, 2505 EJ Chapman Dr., Knoxville TN 37996, ²Department of Horticulture, University of Georgia, 1109 Experiment Street, Cowart Building 116, Griffin, GA 30223, ³1111 Miller Plant Sciences, 120 Carlton Street, Athens, GA 30602, ⁴School of Plant, Environmental, and Soil Sciences, LSU

AgCenter, 104 Sturgis Hall, Baton Rouge, LA 70803. (nbumgarn@utk.edu)

FRUIT CROPS

Room: Chastain I

Presiding: Aaron Cato, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: acato@uada.edu

8:00 Development of New Scouting and Control Tactics for Management of Broad Mite in Blackberry. Aaron Cato^{1*}, Jared Linn², Ryan Keiffer¹, and Amanda McWhirt¹. ¹2301 S. University Ave., Department of Horticulture, University of Arkansas, Little Rock, AR 72204, ²Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (acato@uada.edu)

8:15 Modeling dormancy and bloom phenology in Peach. Melba R. Salazar-Gutiérrez^{1*}, Adriana Cifuentes-Carvajal¹, Edgar Vinson¹, Elina D. Coneva¹, and Bernardo Chaves-Cordoba² Dario Chavez³ Department of Horticulture, College of Agriculture, Auburn University, Auburn, AL 36845, Department of Horticulture, University of Georgia, Griffin, GA 30229, USA. (mrs0145@auburn.edu)

8:30 Models for physiological responses of strawberries cultivated in a hydroponic system. Melba R. Salazar-Gutiérrez^{1*}, Nelda Hernadez-Martinez¹ and Bernardo Chaves-Cordoba², Department of Horticulture, College of Agriculture, Auburn University, Auburn, AL 36845. (mrs0145@auburn.edu)

8:45 Physiological responses of Southern Highbush blueberries grown in alternative production systems. Melba R. Salazar-Gutiérrez^{1*}, Kathy Lawrence², Elina Coneva¹, Bernardo Chaves-Cordoba³, Department of Horticulture, Department of Entomology and Plant Pathology, College of Agriculture, Auburn University, Auburn, AL 36845. (mrs0145@auburn.edu)

9:00 Testing different Raspberry cultivars for production in Mississippi. Apphia Santy*, Guihong Bi, Tongyin Li, Department of plant and soil science, Mississippi state

University, Mississippi State, MS 39762
(as5152@msstate.edu)

9:15 Break

9:30 Evaluation of Fruit Quality of Arkansas Fresh-market Blackberries Grown on a Rotating Cross Arm Trellis. Grace Howard^{1*}, Andrea Myers¹, Renee Threlfall^{1*}, and Amanda McWhirt², ¹2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, and ²2301 S. University Ave., Cooperative Extension Service, University of Arkansas, Little Rock, AR 72204 (rthrelf@uark.edu)

9:45 Surveying U.S Fresh-market Grape Consumers to Determine Key Attributes and Willingness to Pay. Renee Threlfall¹, Margaret Worthington², Melinda Knuth³, Di Fang⁴, Wei Yang⁵, Amanda Fleming^{1*}, Penny Perkins-Veazie⁶, and Mark Hoffmann³, ¹Food Science Department, University of Arkansas, Fayetteville, AR 72704, ²Horticulture Department, University of Arkansas, Fayetteville, AR 72701, ³Department of Horticultural Science, North Carolina State University, Raleigh, NC 27607, ⁴Food and Resource Economics Department, University of Florida, Gainesville, FL 32611, ⁵Economics and Agribusiness, University of Arkansas, Fayetteville, AR 72701, ⁶Plants for Human Health Institute, North Carolina State University, Kannapolis NC 28081. (rthrelf@uark.edu)

10:00 Sweet as a Georgia Peach? Horticulture Performance of Aronia ‘Viking’ in Georgia. Leynar Leyton Naranjo^{1,2*}, Bodie Pennisi¹, and Carol Robacker^{1,2}, ¹1109 Experiment St., Department of Horticulture, University of Georgia, Griffin, GA 30223. ²1109 Experiment St., Institute of Plant Breeding, Genetics and Genomics, University of Georgia, Griffin, GA 30223 (Leynar@uga.edu)

10:15 Incorporating Pruning to Increase the Productivity of Blueberry in the Southeast. Zilfina Rubio Ames* and Melissa Brannon. Department of Horticulture Sciences, University of

Georgia, Horticulture Building, 4604 Research Way, Tifton, Georgia 31793. (Zilfina.rubioames@uga.edu)

10:30 History and Current Status of an Apple Breeding Program at the University of Arkansas. C. R. Rom*, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (crom@uark.edu)

10:45 Break

11:00 Ethephon effect on blooming of three southern highbush cultivars. Lilian Carcamo^{1*}, Melissa Brannon¹, Mark Czarnota², and Zilfina Rubio Ames¹, Department of Horticulture, University of Georgia, ¹2360 Rainwater Road, Tifton, GA, ²1109 Experiment Street, Stress Physiology Building 106, Griffin, GA 30223. (Lilian.carcamo@uga.edu)

11:15 Evaluating the Combined Effects of Biostimulants and Nitrogen Fertilizer on Plant growth and Physiological Attributes of Valencia Sweet Orange Grafted on two Different Rootstocks. Noor Ul Basar^{*1}, Muhammad A. Shahid², and Davie Kadyampakeni¹. ¹Department of Soil, Water, and Ecosystem Sciences, University of Florida/IFAS, 1692 McCarty Dr, Gainesville, FL 32603, ²Horticultural Sciences Department, University of Florida, North Florida Research and Education Center Quincy 32351, Florida. (mshahid@ufl.edu)

11:30 Brassinosteroids to Improve Cold Hardiness in Satsuma mandarin. Charles C. Nauck*, and Muhammad A. Shahid. Horticultural Science Department, University of Florida/IFAS, North Florida Research and Education Center, Quincy, FL 32351, USA. (mshahid@ufl.edu)

11:45 Comparative Studies on Organic and Conventional Citrus Production System. Alaiha Asif*, and Muhammad A. Shahid. Horticultural Science Department, University of Florida/IFAS, North Florida Research and Education Center, Quincy, FL 32351, USA. (mshahid@ufl.edu)

12:00 Physiological and biochemical responses of Satsuma mandarin to silicon fertilizer

under freezing stress. Scott Cruz*, and Muhammad A. Shahid. Horticultural Science Department, University of Florida/IFAS, North Florida Research and Education Center, Quincy, FL 32351, USA. (mshahid@ufl.edu)

- 12:15 The long Acclimation Duration Mediates the Freezing Tolerance in the Satsuma Mandarin (*Citrus unshiu*).** Mujahid Hussain*, and Muhammad A. Shahid. Horticultural Science Department, University of Florida/IFAS, North Florida Research and Education Center, Quincy, FL 32351, USA. (mshahid@ufl.edu)

VEGETABLE CROPS

Room: Chastain I

Presiding: Matt Bertucci, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: bertucci@uark.edu

- 1:00 Lettuce Growth and Physiology Differ between Hydroponic System Types: A Comparison of Deep Water Culture, Nutrient Film Technique, and Vertical Hydroponics.** Seunghyun Choi*, Joshua T. Harvey, Asmita Nagila, and Daniel I. Leskovar, Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801. (d-leskovar@tamu.edu)

- 1:15 Ctrl-Alt-Delete: A Comprehensive Management Tool Kit For Alternaria In Broccoli.** Bhabesh Dutta^{1*}, Navjot Kaur¹, Kate Cassity-Duffey², and Tim Coolong². ¹2360 Rainwater Rd., University of Georgia, Tifton, GA 31794, ²1111 Miller Plant Science Bldg., University of Georgia, Athens, GA 30602. (bhabesh@uga.edu)

- 1:30 Effects on yield and quality of foliar and soil applied *Chlorella vulgaris* in 'Beauregard' sweetpotato (*Ipomoea batatas* [L.] Lam).** Brian K. Ward^{1*}, ¹Matthew I. Horry¹, John Coffey², Phil Wadl² and Matthew Cutulle¹. ¹ Clemson University Coastal Research and Education Center, 2700 Savannah Hwy, U.S. Vegetable Laboratory, Charleston, SC, 29414, ²United States Department of Agriculture, Agricultural Research Service, U.S.

Vegetable Laboratory, 2700 Savannah Hwy, Charleston, SC, 29414. (bw@clemson.edu)

- 1:45 Effect of salinity on phytochemical production of cilantro and parsley.** Abishkar Regmi^{1*}, Lindsey Slaughter¹, Haydee Laza¹, Naima Moustaid-Moussa² and Catherine Simpson¹ ¹Department of Plant and Soil Science, ²Department of Nutritional Sciences. Texas Tech University, Lubbock, TX 79409, USA. (abishkar.regmi@ttu.edu)

- 2:00 Yellow Squash and Zucchini Cultivar Evaluation for Tolerance to Whitefly and Whitefly-Transmitted Viruses in South Georgia.** Nirmala Acharya^{1*}, Sudeep Bag², David G. Riley³, Juan C. Diaz-Perez¹, Timothy Coolong⁴, Manish Kumar², and Theodore McAvoy¹, ¹Department of Horticulture, University of Georgia, Tifton, GA 31793, ²Department of Plant Pathology, University of Georgia, Tifton, GA 31793, ³Department of Entomology, University of Georgia, Tifton, GA 31793, ⁴Department of Horticulture, University of Georgia, Athens, GA 30602. (nirmala.acharya@uga.edu)

- 2:15 Break**

- 2:30 Impact of preplant potassium source and rate on productivity of bell pepper in Georgia.** Timothy Coolong* and Theodore McAvoy, Department of Horticulture, University of Georgia, Athens, GA 30602 (tcoolong@uga.edu)

- 2:45 Exploring Sap Extraction Methods in Controlled Environments for Lettuce, Cucumber, and Tomato Cultivation.** Husnain Rauf¹, Timothy Coolong¹, Zilfina Rubio Ames², Jason Lessl³, Daniel Jackson³, Miguel Angel Puebla⁴, Jessica Staha⁵, Cristian Toma⁶, Rhuanito Soranz Ferrarezi¹, ¹University of Georgia, Department of Horticulture, 1111 Miller Plant Science Building, Athens, GA 30602. ²University of Georgia, Department of Horticulture, 2360 Rainwater Road, Tifton, GA, 31793, ³University of Georgia, Agricultural and Environmental Services Laboratories, 2300 College Station Road, Athens, GA 30602, ⁴Pure Flavor, 9465 Miami Valley Rd, Fort Valley, GA 31030, ⁵Local Bounty, 201 Pete's Way, Byron, GA 31008, ⁶Kalera, 7455

Emerald Dunes Dr., Suite 2100, Orlando, FL 32822. (hrauf@uga.edu)

- 3:00 Identifying Critical Issues Facing the Controlled Environment Horticultural Industry: A Preliminary Exploration.** Idun Andrews*, Lamm K. W., Department of Agricultural Leadership Education and Communication, University of Georgia, 141 Four Towers Building, Athens, GA 30602. (andrews.idun@uga.edu)
- 3:15 Field Performance and Fruit Quality Attributes of Large and Mini Seedless Watermelons Grown in South Georgia.** Theodore McAvoy* and Angelos Deltsidis. Department of Horticulture, University of Georgia, Tifton, GA 31793. (ted.mcavoy@uga.edu)

Sunday, February 4, 2023

ACB BUSINESS MEETING

Room: Chastain 1/2
Time: 9:00 – 10:45
Presiding: Megan Brown, ACB-President, Nate Philips, ACB Advisor

ANNUAL BUSINESS MEETING AND AWARDS PROGRAM

Room: Chastain 1/2
Time: 11:00-12:30
Presiding: Elina Coneva, President

POSTER VIEWING & TAKE-DOWN POSTERS

Room: Savannah Ballroom
Presiding: Paul Bartley, Chair
Poster Viewing: Sunday 8:00-10:45
Poster Take-down: Sunday, 1:00 – 3:00

SECTION TITLES

VEGETABLE CROPS

Room: Chastine E
Presiding: Matt Bertucci, Chair
Abstracts: To publish abstract in *HortScience*, see instructions at end of program.

Submit on disk at meeting or email to Chair: bertucci@uark.edu

- 8:00 Optimizing Planting Density of Bell Pepper (*Capsicum annuum*) in Georgia.** Hayley P. Milner^{1*}, Juan C. Diaz-Perez¹, Simerjeet Virk², Nirmala Acharya¹, and Theodore McAvoy¹, ¹Department of Horticulture, University of Georgia, Tifton, GA 31793, ²Department of Crop and Soil Sciences, University of Georgia, Tifton, GA 31793. (hayley.milner@uga.edu)
- 8:15 Morphological, Genetic, and Chemical Mechanisms contributing towards Bacterial Leaf Spot Resistance in Lettuce.** Byron Manzanero* and Germán Sandoya, Department of Horticultural Sciences, Everglades Research and Education Center, University of Florida, 3200 East Canal St., Belle Glade, FL, 33430. (bmanzanero@ufl.edu).
- 8:30 Impact of light intensity on selecting an optimal hydroponic nutrient solution management strategy in controlled environments.** Christopher E. Nieters^{1*}, Anish Malladi¹, Paul R. Fisher², Pedro Furlani³, and Rhuanito Soranz Ferrarezi¹. ¹University of Georgia, Department of Horticulture, 1111 Miller Plant Science Building, Athens, GA 30602, ²University of Florida, Department of Environmental Horticulture, PO Box 110670, Gainesville FL 32611, ³Conplant, R. Francisco Andreo Aledo, 22 - Barão Geraldo, Campinas - SP, 13084-200. (nietersc@uga.edu)
- 8:45 Hydroponic system selection affects yields and resource use efficiencies for greenhouse lettuce and arugula.** George K. Hutchinson^{1*}, Zilfina Rubio Ames², Krishna Nemali³, Rhuanito Soranz Ferrarezi¹. ¹1111 Miller Plant Science Building, Department of Horticulture, University of Georgia, Athens, GA 30602, ²2360 Rainwater Road, Department of Horticulture, University of Georgia, Tifton, GA, 31793, ³625 Agriculture Mall Drive, Department of Horticulture and Landscape Architecture, Purdue University, West Lafayette, IN 47907. (George.Hutchinson@uga.edu)
- 9:00 Yield and resource utilization of hydroponic lettuce in response to diurnal**

intermittent fertigation. George K. Hutchinson^{1*}, Zilfina Rubio Ames², Krishna Nemali³, Rhuano Soranz Ferrarezi¹. ¹1111 Miller Plant Science Building, Department of Horticulture, University of Georgia, Athens, GA 30602, ²2360 Rainwater Road, Department of Horticulture, University of Georgia, Tifton, GA, 31793, ³625 Agriculture Mall Drive, Department of Horticulture and Landscape Architecture, Purdue University, West Lafayette, IN 47907. (George.Hutchinson@uga.edu)

9:15 Break

9:30 Seedling Vigor and Germination Rate of Lettuce Cultivars Quantified Using a Simple and Automated Imaging Technique. Mark Iradukunda^{1*}, Marc W. van Iersel^{1†}, Lynne Seymour², Guoyu Lu³, and Rhuano S. Ferrarezi¹. ¹1111 Miller Plant Sciences, Department of Horticulture, University of Georgia, Athens, GA 30602, USA., ²310 Herty Drive, Department of Statistics, University of Georgia, Athens, GA 30602, USA., ³712G Boyd Research and Education Center, School of Electrical and Computer Engineering, University of Georgia, Athens, GA 30602, USA., †: In Memoriam. (Mark.Iradukunda@uga.edu)

9:45 Is Locally Sourced Biochar and Poultry Litter the Solution to Improving Soil Health and Sustainably Producing Tomatoes in South Georgia? Emilio Suarez^{1*}, Kate Cassity-Duffey¹, Juan C. Diaz-Perez¹, Henry Y. Sintim², and Theodore McAvoy¹. ¹Department of Horticulture, University of Georgia, Tifton, GA 31793, ²Department of Crop and Soil Sciences, University of Georgia, Tifton, GA 31793. (emilio.suarez@uga.edu)

10:00 Planting Density and Nitrogen Fertilizer Rate Effect on Vidalia Onion (*Allium cepa*) Yield and Bulb Size Distribution. Elvis Pulici^{1*}, Juan C. Diaz-Perez¹, Henry Y. Sintim², and Theodore McAvoy¹. ¹Department of Horticulture, University of Georgia, Tifton, GA 31793, ²Department of Crop and Soil Sciences, University of Georgia, Tifton, GA 31793. (elvis.pulici@uga.edu)

10:15 Exploring the Impact of Aeroponic Nozzle Type on Carrot Growth and Root

Architecture. Dario Rueda Kunz* and Catherine Simpson, Department of Plant and Soil Sciences, Texas Tech University, Lubbock, TX 79409-2122. (daruedak@ttu.edu)

10:30 Cantaloupe Variety Trial Grown in Arkansas. Rachel C. Woody-Pumford*, Matthew B. Bertucci, and Ali Ablao, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (rxw025@uark.edu)

FLORICULTURE, ORNAMENALS AND TURF

Room: Chastain C

Presiding: Sarah White, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: swhite4@clemson.edu

8:00 Production and Marketing of *Ilex verticillata* (L.) A. Gary. Delong Ding¹, Jianchun Qin², Yiping Zou³, Mingzhuo Hao³, and Donglin Zhang^{4*}. ¹Yulongchang Horticultural Tech Co. Ltd, Rizhao, Shandong 262305, China, ²Bureau of Administrative Management, Zhaoyuan, Shandong 265400, China, ³Jiangsu Qinghao Ornamental Horticulture Co., Ltd, Nanjing, Jiangsu 211225, China., ⁴Department of Horticulture, University of Georgia, Athens, GA 30602, USA. (donglin@uga.edu)

8:15 Flowering and Fruit Production in 'Natchez' Crepe Myrtle (*Lagerstroemia indica* × *fauriei* 'Natchez') in Relation to Crepe Myrtle Bark Scale (*Acanthococcus lagerstroemiae*) Infestation and Sooty Mold (*Capnodium* sp.) Incidence. Derald A. Harp, Beatriz Ruiz, Kara Bailey, Phoebe Alvarez, and Pedro Castillo. College of Agricultural Sciences and Natural Resources, Texas A&M University-Commerce, Commerce, TX 75429 (Derald.Harp@tamuc.edu)

8:30 Cytological and Physiological Analysis of a Chlorophyll-deficient Holly (*Ilex* × *attenuata* 'Sunny Foster') Mutant: Implications for Photosynthesis and Growth. Yiping Zou^{1,2}, Yajian Huang¹, Jianchun Qin³, Mingzhuo Hao^{1,2}, and Donglin Zhang^{4*}. ¹College of Forestry, Nanjing Forestry University, Nanjing 210037, China. ²Jiangsu Qinghao Ornamental Horticulture

Co., Ltd, Nanjing, Jiangsu 211225, China.³
Bureau of Administrative Management,
Zhaoyuan, Shangdong 265400, China.
⁴Department of Horticulture, University of
Georgia, Athens, GA 30602, USA

8:45 Comparative study of physiological tolerance mechanisms in two different ecotypes of centipedegrass under lead stress. Xinyi Cai^{1, 2*}, Xi Li¹, and Donglin Zhang², ¹College of Landscape Architecture, Sichuan Agricultural University, Chengdu, Sichuan, China, 611130, ²Department of Horticulture, The University of Georgia, Athens, Georgia, USA, 30602. (scaucola@163.com)

9:00 Stomatal Conductance and Stem Water Potential in *Salvia guaranitica* 'Black and Blue' Under Deficit Irrigation. Lindsey Trinkle*, Madison Coyle, Audrey Field, Laura Sharlow, and Derald A. Harp. College of Agricultural Sciences and Natural Resources, Texas A&M University-Commerce, Commerce, TX 75429 (Derald.Harp@tamuc.edu)

9:15 Break

9:30 Effect of Shade on *Lisianthus* Cut Flower Quality and Yield Using Organic Practices. Kate Cassity-Duffey*, Johnathan Pulliam, and Julie Campbell, Department of Horticulture, University of Georgia, Athens, GA 30602. (katecass@uga.edu)

9:45 Summer Landscape Performance of *Lobelia erinus* L. Genotypes in Northwest Arkansas. Garry V. McDonald* and Derek A. Dean, 316 Plant Sciences, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (gmcdonal@uark.edu)

10:00 Managing Moisture and Temperature in Landscape Soils Using Groundcovers and Mulch. Damon E. Abdi* and Jeb S. Fields, Hammond Research Station, Louisiana State University Agricultural Center, Hammond, LA 70403. (dabdi@agcenter.lsu.edu)

10:15 Exploring Specialty Crop Producers' Perceptions of Water Usage and Environmental Contaminants to Inform Effective Water Management Communication. Olivia M. Erskine^{1*}, Alexa J. Lamm¹, Kristin E. Gibson¹, Sarah A. White², James S. Owen Jr.³, & James E. Altland³, ¹Department of Agricultural

Leadership, Education and Communication, University of Georgia, Athens, GA 30602, ²Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29631, ³USDA-ARS Application Technology Research Unit, 1680 Madison Ave., Wooster, Ohio 44691. (oliviaerskine@uga.edu)

10:30 Closing the Divide Between Science and Policy: A Survey of Scientists and Policy Makers to Improve Communication about PFAS Use in the Nursery & Greenhouse Industry. Emily A. Dustman^{1*}, Alexa J. Lamm¹, Kristin E. Gibson¹, Sarah A. White², James S. Owen Jr.³, & James E. Altland³, Department of Agricultural Leadership, Education and Communication, University of Georgia, Athens, GA 30602, ²Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29631, ³USDA-ARS Application Technology Research Unit, 1680 Madison Ave., Wooster, Ohio 44691. (emily.dustman@uga.edu)

10:45 Effects of Organic Biostimulant on golf green Seashore Paspalum (*Paspalum vaginatum*). Madison L. Meagher*, Environmental Systems Management, Department of Agriculture, Agribusiness and Environmental Sciences, Texas A&M University - Kingsville, 700 University Blvd, Kingsville, TX 78363 (madison.meagher@students.tamuk.edu)

FRUIT CROPS

Room: Chastain A

Presiding: Aaron Cato, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: acato@uada.edu

8:00 Silicon-induced Hypoxia Tolerance in Citrus Rootstocks is Associated with Polyamine Metabolism. Shahid Iqbal*, and Muhammad A. Shahid. Horticultural Science Department, University of Florida/IFAS, North Florida Research and Education Center, Quincy, FL 32351, USA. (mshahid@ufl.edu)

8:15 Blueberry stem blight survey and cultivar screening in Alabama. Ayodele Amodu¹, Sejal Patel², Kathy Lawrence³, Jenny

Koebernick², Elina Coneva¹, Jonathan E. Oliver⁴, Sushan Ru^{1*} ¹Department of Horticulture, Auburn University. ²Department of Crop, Soil and Environmental Sciences, Auburn University. ³Department of Entomology & Plant Pathology, Auburn University. ⁴Department of Plant Pathology, University of Georgia. (sizr0099@auburn.edu)

8:30 Labor and Mechanization Options for Small Vineyards. Justin Scheiner* and Fran Pontasch, Department of Horticultural Sciences, Texas A&M University, College Station, TX, 77843. (jscheiner@tamu.edu)

8:45 Evaluating Use of Vine Shelters to Reduce Cold Injury in New Vineyards. Michael Cook* and Justin Scheiner, Department of Horticultural Sciences, Texas A&M University, College Station, TX, 77843. (m.cook@tamu.edu)

9:00 Can Pine Bark Serve as an Alternative to Coco Coir for Long-Cane Raspberries in the Southeastern US? Lisa Rayburn^{1*}, Brian Jackson¹, Joshua Mays², Walt Webb³, James Hewitt³, David Childers³, and Gina Fernandez¹, ¹Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, ²TriEst Ag Group, Inc. Greenville NC, 27835, ³Lewis Nursery and Farms, Rocky Point, NC 28457. (lisa_rayburn@ncsu.edu)

9:15 Break

9:30 Evaluation of Muscadine Cultivars and Advanced Selections in Alabama. Elina Coneva^{1*}, Patrick Conner², Margaret Worthington³, Melba Salazar-Gutierrez¹, Sushan Ru¹, Edgar Vinson⁴, and Bernardo Chaves-Cordoba⁵, ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn AL 36849, 2360 Rainwater Rd., Tifton, GA 31793, ³Department of Horticulture, Fayetteville, AR 72701, ⁴Chilton Research and Extension Center, 120 County Road 756, Clanton AL 35045, ⁵College of Agriculture, Auburn University, Auburn, AL 36849. (edc0001@auburn.edu)

9:45 Preliminary Results From 2023 Texas Strawberry (*Fragaria* × *ananassa*) Cultivar Trials. Thayne Montague^{1,2*}, Srijana Panta¹, Russell W. Wallace². Department of Plant and Soil Science, 2911 15th Street, Texas Tech University, Lubbock, TX 79409, ²Texas A&M AgriLife Research and Extension Center, 1102 FM 1294, Lubbock, TX 79403. (thayne.montague@ttu.edu)

10:00 Breeding for climate resilience in peach. Ksenija Gasic*, John Mark Lawton, Zhigang Li and Christopher Saski, Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29634. (kgasic@clemson.edu)

10:15 Southern Highbush Blueberry Leaves (*Vaccinium corymbosum* interspecific hybrids) Maintain their Photosynthetic Rates Until Senescence. Gerardo H. Nunez, F. Twinamaani, D.C. Kovach, Horticultural Sciences Department, University of Florida, Gainesville, FL 32611 (g.nunez@ufl.edu)

10:30 Assessing Phosphorus Fertilization in Blueberry Production in South Georgia. N. Espinoza^{1*}, Z. Rubio¹, J. Lessl², Z. Williams³. Department of Horticulture Sciences, University of Georgia, Horticulture Building, 4604 Research Way, Tifton, Georgia 31793, ²Agricultural and Environmental Services Lab (AESL), University of Georgia, Athens, Georgia, 30602, ³University of Georgia, Alma, Georgia, 31510. (nbe77578@uga.edu)

POSTHARVEST AND BIOTECHNOLOGY

Room: Chastain I

Presiding: David Picha, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: dpicha@agcenter.lsu.edu

8:00 Hopyard to Beer: Potential for Hop (*Humulus lupulus* L.) Production in North Central Oklahoma. Katie Stenmark*, Charles Fontanier, Niels Maness, and Bruce Dunn, Department of Horticulture and Landscape Architecture, Oklahoma State University, Agriculture Hall, Stillwater OK 74075. (katie.stenmark@okstate.edu)

- 8:15 Postharvest Quality and Shelf-Life of Living Lettuce: Should Growers Keep or Cut the Roots?** Marlee Trandel-Hayse^{*1}, Caroline Blanchard¹, Daniel Wells¹ and Camila Rodrigues², ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL. ²275 CASIC Building, Department of Horticulture, Auburn University, Auburn, AL 36849. (mat0141@auburn.edu)
- 8:30 Spinach Genotypes and Oomycete Interaction: Insights from Vertical Farming Research.** Derek A. Dean^{1*}, River C. Dean², and Garry V. McDonald¹, ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ² 1066 Bogue St., Room 260, Plant and Soil Sciences Building, Department of Plant, Soil and Microbial Sciences, Michigan State University, East Lansing, MI 48824. (gmcdonal@uark.edu)
- 8:45 Extending Muscadine Shelf-Life with Janny Bins.** Penelope Perkins-Veazie^{1*} and Mark Hoffmann², ¹600 Laureate Way, Plants for Human Health Institute, North Carolina State University, Kannapolis, NC 28081, ²2721 Founders Drive, North Carolina State University, Raleigh, NC, 27695. (penelope_perkins@ncsu.edu)
- 9:00 Evaluating Edible Coatings to Extend Postharvest Storage of Fresh Market Muscadine Grapes.** M. Walker Bartz^{*}, Renee T. Threlfall^{*}, Safoura Ahmadzadeh, and Ali Ubeyitogullari, 2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR
- 9:15 From Harvest to Hue: Anthocyanin Content and Profile Relation to Strawberry Color in North Carolina Germplasm.** Brianna Haynes^{1,2*}, Gina Fernandez¹, Guoying Ma^{1,2}, Penelope Perkins-Veazie^{1,2}, ¹Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, ²Plants for Human Health Institute, North Carolina State University, Kannapolis, NC 28081. (bnhaynes@ncsu.edu)
- 9:30 Anthocyanin and Fruit Composition of the Same Rubus Species and Cultivars Collected from OR, NY, AR, NC, CA Locations.** Penelope Perkins-Veazie^{1*}, G. Ma¹, G. Fernandez², H. Oh^{1,2}, C. Ochsenfeld³, A. Fister³, L. Redpath³, and R. Rapp³, ¹Plants for Human Health Institute, North Carolina State University, Kannapolis, NC 28081, ²North Carolina State University, Raleigh, NC, 27695, ³Pairwise, Durham, NC 27701. (penelope_perkins@ncsu.edu)
- 9:45 Effects of Alternative Atmosphere Storage Treatments on Georgia-Grown Blackberries.** Ramsey Corn^{*}, Orestis Giannopoulos, Zilfina Rubio, and Angelos Deltsidis, Department of Horticulture, University of Georgia-Tifton Campus, Tifton, GA 31793. (adeltsidis@uga.edu)
- 10:00 Integration of Chitosan Emulsion and Silicon to Extend the Shelf Life of Blackberry Fruit.** Muneer Rehman^{*1}, Angelos Deltsidis², Muhammad A. Shahid¹, ¹Horticultural Science Department, University of Florida/IFAS, North Florida Research and Education Center, Quincy, FL 32351. ²Department of Horticulture, University of Georgia-Tifton Campus, Tifton, GA 31793. (mshahid@ufl.edu)
- 10:15 Ethylene Degreening of Georgia-grown Satsuma Citrus Fruits.** Taiwo Owolanke^{*}, Ramsey Corn, Orestis Giannopoulos, and Angelos Deltsidis, Department of Horticulture, University of Georgia-Tifton Campus, Tifton, GA 31793. (adeltsidis@uga.edu)
- 10:30 Sensory Quality and Composition of Satsuma and Sweetpotato Beverage Blends.** David Picha, School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803. (dpicha@agcenter.lsu.edu)
- 10:45 Studying the Chilling Injury Incidence of Fresh Market Peaches Held at Different Storage Temperatures.** Orestis Giannopoulos^{*}, Ramsey Corn, and Angelos Deltsidis, Department of Horticulture, University of Georgia-Tifton Campus, Tifton, GA 31793. (adeltsidis@uga.edu)

SAAS Meetings

SAAS Board Meeting

Bldg/Room: Chastain 1/2
Time: 2:30 PM–3:30 PM

SAAS General Business Meeting

Bldg/Room: Room: Chastain 1/2
Time: 4:00 PM–4:30 PM

SAAS Social

Place: Grand Loft (Southern Exchange)
Time: 5:00 PM – until

WORKING GROUPS

(Contact Chairs for Agenda and order of business meeting and presentations if not given)

Watermelon Research Group

Presiding: Josh Freeman, Chair
 jfreeman@triestag.com
 Melissa Acevedo, ViceChair
 melissa.acevedo@hmclause.com
Room Chastain D
Saturday 9:30 am – 5:00 pm

9:30 Introduction and regional updates

10:30 Field Performance and Fruit Quality Attributes of Large and Mini Seedless Watermelons Grown in South Georgia. Theodore McAvoy* and Angelos Deltsidis. Department of Horticulture, University of Georgia, Tifton, GA 31793. (ted.mcavoy@uga.edu)

10:45 Effects of Rootstock and Nutrient Management on Flower and Fruit Development in Grafted Triploid Watermelon (*Citrullus lanatus*). Jason Hollick* and C. Kubota, Department of Horticulture and Crop Science, The Ohio State University, Columbus, OH 43210. (hollick.4@osu.edu)

11:00 2023 Results for Managing Fusarium Wilt of Watermelon with Cultivar, Fungicide, and Grafting in North and South Carolina. Stuart Michel¹, Jonathan

Schultheis^{1*}, Anthony Keinath², and Lina Quesada-Ocampo³

¹Department of Horticultural Science, North Carolina State University, Raleigh, NC, USA

²Plant and Environmental Sciences Department, Clemson University, Coastal Research and Education Center, Charleston, SC, USA, ³Department of Entomology and Plant Pathology and NC Plant Science Initiative, North Carolina State University, Raleigh, NC, USA (jonr@ncsu.edu)

11:15 2023 Mini Watermelon Cultigen Yield and Quality Results for North Carolina. Stuart Michel*, Jonathan R. Schultheis, Brandon Parker, and Baker Stickley, North Carolina State University, Dept. Horticultural Science, 2721 Founders Drive, Raleigh, NC 27695-7609 (swmichl@ncsu.edu)

11:30 Assessing Brackish Water Tolerance in Watermelon Cultivars based on Germination and Root Morphology. Azeezahmed Shaik^{1*}, Rahul Kumar², Karthikeyan, Raghupathy³, Kousik, Shaker⁴, ¹Clemson University, Agricultural Sciences Department, Charleston, SC 29414, ²ORISE Participant, USDA ARS, U.S. Vegetable Laboratory, Charleston, SC 29414, ³Clemson University, Agricultural Sciences Department, Clemson, SC. ⁴USDA ARS, U.S. Vegetable Laboratory, Charleston, SC 29414 (azeegah@clemson.edu)

11:45 KASP Marker Development for Powdery Mildew Resistance in Watermelon (*Citrullus lanatus*) using Bulk Segregant Analysis (BSAseq) and RNAseq. Rahul Kumar^{1*}, Azeezahmed Shaik², Jennifer Ikerd³, Sandra Barnham⁴, Patrick Wechter⁴, and Kousik Shaker³. ¹ORISE Participant, USDA ARS, U.S. Vegetable Laboratory, Charleston, SC 29414, ²Clemson University, Agricultural Sciences Department, Charleston, SC 29414, ³USDA ARS, U.S. Vegetable Laboratory, Charleston, SC 29414, ⁴Clemson University, Coastal Research and Education Center, Charleston, SC 29414) Rahul.Kumar@usda.gov)

1:30 Evaluating Seedless Watermelon Varieties for Salt Tolerance. ¹Hailey Schopp*, ¹Joseph Bazzle, ²Amnon Levi, ¹Brian Ward, ¹Sandra Branham and

¹Matthew Cutulle, ¹ Clemson University Coastal Research and Education Center. 2700 Savannah Hwy, U.S. Vegetable Laboratory, Charleston SC, 29414, ²United States Department of Agriculture, Agricultural Research Service, U.S. Vegetable Laboratory. 2700 Savannah Hwy, Charleston SC, 29414 (bw@clemson.edu)

1:45 Optimizing Experimental Criteria for measuring Drought Tolerance in Wild versus Cultivated Watermelon Genotypes.

¹Ben Hyland*, ²Amnon Levi, ²Anju Biswas, ¹Matthew Cutulle and ¹Brian Ward. ¹ Clemson University Coastal Research and Education Center. 2700 Savannah Hwy, U.S. Vegetable Laboratory, Charleston SC, 29414, ²United States Department of Agriculture, Agricultural Research Service, U.S. Vegetable Laboratory. 2700 Savannah Hwy, Charleston SC, 29414 (bw@clemson.edu)

2:00 Utilizing genomic selection approach for enhancing fusarium wilt race 2 resistance in watermelon.

Anju Biswas^{1*}, Venkat Ganaparthi¹, Pat Wechter², Shaker Kousiik¹, and Amnon Levi¹ Sandra Branham² ¹USDA, ARS, U.S. Vegetable Laboratory, 2700 Savannah Highway, Charleston, SC, 29414 ²Clemson University, Coastal Research and Education Center, Charleston, SC, 29414 (amnon.levi@usda.gov)

2:30 Summary of 2023 Indiana Watermelon Cultivar Evaluations.

Wenjing Guan, Department of Horticulture and Landscape Architecture, Purdue University, Southwest Purdue Agricultural Center, 4369 N. Purdue Rd, Vincennes, IN. 47591. (guan40@purdue.edu)

2:45 Exploring Mature Watermelon Vine Decline in Indiana,

Wenjing Guan and Dan Egel, Purdue University, Southwest Purdue Agricultural Center, 4369 N. Purdue Rd, Vincennes, IN. 47591. (guan40@purdue.edu)

3:30 Effects of Drip Irrigation Management on Yields of Seedless Watermelons in Indiana.

Emerson Luna and Wenjing Guan, Department of Horticulture and Landscape Architecture, Purdue University, Southwest Purdue Agricultural Center, 4369 N. Purdue Rd, Vincennes, IN. 47591. (guan40@purdue.edu)

3:45 Resistance to whitefly transmitted viruses in watermelon.

Cecilia McGregor^{*12}, Alex Luckew¹², Nebahat Sari¹², Ted McAvoy³, Swikriti Pandey,² Alvin Simmons⁴, Geoffrey Meru⁵, ¹ Department of Horticulture, University of Georgia, Athens GA, USA, ² Institute of Plant Breeding, Genetics & Genomics, University of Georgia, Athens GA, USA, ³ Department of Horticulture, University of Georgia, Tifton GA, USA, ⁴ USDA ARS, Charleston, SC 29414, ⁵ Horticultural Sciences Department, Tropical Research & Education Center, University of Florida, Homestead, FL 33031 (cmcgrel@uga.edu)

4:00 2023 Standard Size Watermelon Cultigen Yield and Quality Results for North Carolina.

Jonathan R. Schultheis*, Stuart Michel, Brandon Parker, and Baker Stickley, North Carolina State University, Dept. Horticultural Science, 2721 Founders Drive, Raleigh, NC 27695-7609 (jonr@ncsu.edu)

4:15 – 5:00 wrap up and discussion

Southern Fruit Workers

Presiding: Rachel Itle
ritle@uga.edu
Room: Chastain H
Friday: 8:00 am – 5:00 pm

Horticulture Administrators

Presiding: Chris Gunter, Chair
cc.gunter@ufl.edu
Room: Chastain B
Friday: 1:00 pm – 5:00 pm

National Sweet Potato Collaborators

Presiding: Michelle McHargue, Chair
Michelle.McHargue@lambweston.com
Will not meet with SRASHS February 2024

Congratulations to Newly Elected Officers for 2024

President-Elect

Sarah White, Clemson University

Executive Committee

Cheryl Boyer, Kansas State University

Daniel Wells, Auburn University

Education Section

Gerardo Nunez, University of Florida

Extension Section

Jeremy Pickens, Auburn University

Floriculture, Ornamentals & Turf Section

Anthony Bowden, University of Ark.

Fruit Crops Section

Edgar Vinson, Auburn University

Vegetable Crops Section

Ted McAvoy, University of Georgia

Postharvest & Biotechnology Section

Renee Threlfall, University of Ark.

Poster Section

Ping Yu, University of Georgia

Collegiate Branch (Edmond Competition)

Carolyn Robinson, Auburn University

Instructions for Submission of Abstracts for Publication in *HortScience*

- 1) One of the authors must be registered for the conference.
- 2) The title of the abstract must appear in the published conference program.
- 3) The abstract must be submitted as a doc file properly formatted.
- 4) The abstract must be submitted to the Chair of the session by the deadline.

Presenters: Submission of Abstract to Chair by Meeting

Guidelines Each abstract must be submitted to the Chair as a separate Word (.doc) file; on a single page. Place an asterisk after the presenting author's name (example: Shem Elias*)

Font 12 pt font; use Sans, New Times Roman or similar font that preserves superscripts

Length: Limit the abstract body to about 2000 characters.

- Deadline:**
- 1) At meeting: Give USB with file to the Chair of the session.
 - 2) Before meeting: Email abstracts to the Chair of the session
 - 3) Chair may offer a few days grace period after the meeting

Chairs: Submit Abstract to Secretary Treasurer by February 15

Email dwreed@tamu.edu

Guidelines Send all abstracts from a section as one Word Doc file; with abstracts in the desired order, and one abstract per page. ONLY properly formatted abstracts will be published. Submit as a single Word document. The file should be saved as SR plus the section name and the year (example: SREducation2024.docx)

Example Format

Molecular Marker-Derived Genetic Similarity Analysis of a Segregating Blackberry Population

Eric T. Stafne*¹, John R. Clark¹, and Kim S. Lewers²

¹316 Plant Sciences, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²USDA-ARS Fruit Lab, 10300 Baltimore Ave., BARC-West Bldg. 010A, Beltsville, MD 20705

A tetraploid blackberry population that segregates for two important morphological traits, thornlessness and primocane fruiting, was tested with molecular marker analysis. Both randomly amplified polymorphic DNA (RAPD) and simple sequence repeat (SSR) markers were used to screen a population of 98 genotypes within the population plus the two parents, 'Arapaho' and 'Prime-Jim'[®] (APF-12). RAPD analysis averaged 3.4 markers per primer, whereas SSR analysis yielded 3.0 markers per primer pair. Similarity coefficient derived from the Dice index averaged over all individuals was 63% for RAPD markers, 73% for SSR markers, and 66% for RAPD and SSR markers together. The average similarity coefficients ranged from a high of 72% to a low of 38% for RAPD markers, 80% to 57% for SSR markers, and 73% to 55% for both. Comparison of the parents indicated a similarity of 67% for RAPD markers, 62% for SSR markers, and 67% for both. This is similar to a previous study that reported the similarity coefficient at 66%. Although inbreeding exists within the population, the level of heterozygosity is high. Also, evidence of tetrasomic inheritance was uncovered within the molecular marker analysis. This population will be used to identify potential markers linked to both morphological traits of interest. Further genetic linkage analysis and mapping is needed to identify any putative markers.

2024 Program at a Glance

The Weston Peachtree Plaza	Friday, February 2																																																			
	8:00				9:00				10:00				11:00				12:00				1:00				2:00				3:00				4:00				5:00															
Hotel Lobby	7:00 openRegistration																																																			
Chastain H	Southern Fruit Workers																																																			
Chastain B																									Horticulture Administrators																								Executive Com.			
Chastain G	ACB Club Share and Networking																								ACB Activities, Tour, Meal or TBA																								ACB Mixer TBA			
Chastain J																									National ASHS Board of Directors																											
Saturday, February 3																																																				
	8:00				9:00				10:00				11:00				12:00				1:00				2:00				3:00				4:00				5:00															
The Overlook	7:00 openRegistration																																																			
Savannah Ballroom	Poster Room Set-up								Authors Mount Posters								Poster Viewing								Author at Poster Even Number								Author at Poster Odd Number																			
Chastain 1/2	Judging Contest Set-Up																								J. Benton Storey Horticulture Judging Contest																								ACB Scoring			
Chastain D																									Watermelon Research Group																											
Chastain G	Education				Extension																								Extension																							
Christain I	Fruit Crops Section																								Vegetable Crops																											
Chastain J	Edmond UG Oral Paper Competition																																																			
Chastain F	Childers M.S. Oral Paper Competition																								Barham PhD Oral Paper Competition																											
Sunday, February 4																																																				
	8:00				9:00				10:00				11:00				12:00				1:00				2:00				3:00				4:00				5:00															
The Overlook	7:00 openRegistration																																																			
Savannah Ballroom	Poster Session Viewing																								Poster Take down																											
Chastain 1/2									ACB Business Meeting								Business Mtg/Awards Prog.																																			
Chastain E	Vegetable Crops Section																																																			
Chastain C	Floriculture,Ornamentals & Turf Section																																																			
Chastain A	Fruit Crops Section																																																			
Chastain I	Postharvest & Biotechnology Section																																																			
Chastain 1/2																									SAAS Board Mtg												SAAS Business Mtg															
Grand Loft (Southern Exchange)																																																SAAS Social				



In
ASHS Honolulu Hawaii





**RCAS Winter Meeting- Atlanta, GA
Westin Peachtree Plaza
Feb 4-6, 2024**

RCAS Winter Meeting Agenda – Monday Feb 4-5, 2024

Sunday, February 4th

1:30 PM **Registration- Augusta G Conference Room**

2:00 PM **Executive Business Meeting**

6:00 PM **Dinner (on your own)**

Monday, February 5th

8:00-8:30 AM **Check-in & Refreshments- Chastain Room 1/2**

8:30-8:45 AM **Welcome & Introduction** President RCAS, Jeremy Martin, NC State University

8:45-9:00 AM **Georgia Agriculture Update**
Nick Place, Dean & Director of the College of Agricultural & Environmental
Sciences, University of Georgia

9:00-9:30 AM **Staff Retention and Housing Issues Faced at Research Stations**
Jeff Gore, Head of MSU Delta Research & Extension Center

9:30-10:00 AM **Break**

10:00-10:30 AM **“Climate Trends in the Southeast & How They Are Affecting Agriculture”**
Pam Knox, Director of UGA Weather Network

10:30-11:00 AM **“Emerging Technologies & Autonomous Applications in Precision Agriculture”**
Simerjeet Virk, UGA - Precision Ag. Extension Specialist

11:00-11:15 AM **Update - AI Center Gulf Coast Center, University of Florida**
Jerry Fankhauser

11:15-11:45 AM	Well Food Alliance Atlanta – Urban Agriculture Overview Fred Conrad, Senior Manager of Community Gardens
11:45 AM -1:15 PM	Lunch (on your own)
1:15-1:45 PM	Montgomery Sheep Farm/Sun Raised Farms – a Solar Ag Venture Joel Olsen & Brooks Mixon
1:45-2:15 PM	Mark Issacs – Carbon Credits (Zoom)
2:15-2:45 PM	Recovery After a Major Hailstorm – MSU Truck Crops Experiment Station Clay Cheroni
2:45-3:15 PM	Break
3:15-3:45 PM	CleanSeed Project – Creating Sweet Potato Sustainability in MS Mark Shankle, Project Director, MSU North MS R&E Center
3:45-4:15 PM	Nebraska Summer Meeting Overview Doug Zalesky
4:30-5:00 PM	RCAS General Business Meeting

- 1) Dean Place – Dean/Director of College of Agriculture and Environmental Sciences at UGA
- 2) Dr. Simerjeet Virk – UGA Researcher leading UAV/ag technology studies. (Recommended by Ray)
- 3) Dr. Pam Knox – UGA Extension State Climatologist – Extreme weather issues/effects on ag production
- 4) Dr. Jeff Gore – MSU Head DREC – Staff retention and housing issues faced at research stations

TOUR INFORMATION- Feb 5-6, 2024

February 5, 2024 Spousal Tour

20 passenger Bus- Tour Guides- Becky Griffin, Community & School Garden Coordinator UGA & Freya Jones, Georgia Mountain REC Admin Support.

9:00 Depart Westin Peachtree Plaza Hotel

9:30 Arrive at Atlanta Botanical Gardens

11:00 Depart

11:30 Ponce City Market- A community centered environment along the historic Ponce de Leon Avenue. Lunch will be on your own. <https://www.poncecitymarket.com/>

2:30 Depart

3:00 Martin Luther King Homeplace and Ebenezer Baptist Church Tour

4:30 Return to Hotel

February 6, 2024 Tour

8:00 Depart Westin Peachtree Plaza Hotel

8:30 Mercedes-Benz Stadium Tour and Urban Ag Interface

10:00 Exploring Atlanta's Urban Agriculture by Bus- Guided

11:30 Centennial Olympic Park walk through (drop off on Baker St)

12:00 CNN Center Food Court- Lunch on your own.

1:00 Depart

2:00 UGA Griffin Campus- Presentation from Assistant Provost and Campus Director Dr. Dean. Divided Groups Tours. Group A-Controlled Environment Greenhouse with Dr. Andre Ogden & Irrigation Demonstration & Outreach with Rolando Orellano. Group B- Turfgrass Research & Education Center with Dr. Clint Waltz and Mycotoxicology & Postharvest Pathology Lab with Dr. Jake Fountain. Group C- Food Product Innovation & Commercialization Center with Dr. James Gratzek and USDA Seed Bank with Dr. Melanie Harrison.

3:30 Depart

4:30 Arrive and tour Real Life Center- Non-profit farm in Tyrone GA

5:15 Depart

5:45 Mary Mac's Tea Room- Traditional Southern Dining- Dinner and banquet in the Skyline Room, 70-100 guests

8:00 Depart for Hotel, Tour End

***Southern Rural Sociological Association
55th Annual Meeting***



“Rural Livelihood Stories: Past, Present, and Future”

February 4-5, 2024

Atlanta, Georgia

Concurrent with the Southern Association of Agricultural Scientists (SAAS)

Welcome from the Southern Rural Sociological Association 2023-2024 President

Southern Rural Sociological Association 2024 55th Annual Meeting

February 4, 2024

SRSA Members, Guests, and SAAS Colleagues:

Welcome to Atlanta, Georgia, for the annual meeting of the Southern Rural Sociological Association (SRSA), held in conjunction with the meeting of the Southern Association of Agricultural Scientists (SAAS). We are excited to have you join us for the 55th annual meeting! Our members are the heart of our organization, representing many social science disciplines. They contribute valuable work in areas of teaching, outreach and extension, research, public policy, and development. We come together in order to tell our stories, share our work, learn from each other, and build community across subject areas. It is my pleasure to welcome you to Atlanta, Georgia.

The theme for the 55th annual meeting is “Rural Livelihood Stories: Past, Present, and Future.” Rural communities are often characterized on the bases of their struggles, but rural residents also generate innovations that contribute to resilience. Sharing these insights and building partnerships across traditional boundaries may contribute to broader rural prosperity. There are several questions to pursue. How do the human, social, and material dimensions of livelihoods interconnect to shape the well-being of individuals, households, and their communities? What strategies, techniques, and institutional arrangements are utilized in pursuing livelihood pathways? What barriers are faced, and what can we learn from each other to imagine a more sustainable future?

In consultation with the SRSA Program Chair, Russ Garner, there are several program highlights I would like to share. Following a pre-organized workshop on February 3 hosted by the Interdisciplinary Network on Rural Population Health and Aging, we begin our full conference on Sunday morning, February 4th with concurrent sessions focused on Food Systems and Community Quality of Life and Environment and Climate Change followed by a plenary panel entitled, “Collaborations Across the Boundaries that Divide Us”.

We are excited about a new addition to the schedule, a short, rapid exchange session, “Building the Railway: Networking and Learning Together”, designed for conference attendees to make fast connections with current and future collaborators. The afternoon is filled with sessions addressing rural tourism, current issues in rural context, rural identity, and international development, followed by the SAAS general business meeting, and opening social. All SRSA participants are encouraged to attend both the meeting and the social. Please attend.

We continue on Monday, February 5th, with sessions about heirs’ property, human capital, technology implementation, and health and wellbeing in rural communities. We close out the conference with a SERA-47 Multi-State Project panel, followed by a Presidential Address Panel focused on our stories, our research, and how they connect, poster session, and presidential reception.

Thank you for joining us to discuss the importance of rural livelihoods stories across time, capturing snapshots of communities, struggles, and actions to pursue pathways to resilience that taken together will form a gallery exhibiting rural lives and landscapes at the SRSA 2024 Annual Meeting.

Eleanor McMillen Green
SRSA President 2023-2024

Program at a Glance

Abbreviations

Rooms: Chastain H, Chastain G, Overlook, Savannah Ballroom, Chastain Foyer/Terrace

Organizations

[Southern Association of Agricultural Scientists:](#)

[SAAS Southern Rural Sociological Association:](#)

[SRSA](#)

Note: All SRSA members are invited to attend SAAS sessions

[Meeting room floor plan](#)

Saturday, February 3, 2024

Day and Time	Location	Session Title
10:00am–4:00pm	Chastain E	Rural Population Health and Aging Proposal Writing Workshop (pre-organized)

Sunday, February 4, 2024

Day and Time	Location	Session Title
8:00am–3:00pm	Overlook	Registration
8:15am–9:30am	Chastain G	Session 1: Food Systems and Community Quality of Life
	Chastain H	Session 2: Environment and Climate Change
9:30am–9:45am		Break
9:45am–11:00am	Chastain G	Panel 1: Collaboration Across the Boundaries that Divide Us: Explorations in Research Across Territorial and Institutional Lines (Southern Rural Development Center)
11:00am–11:15am		Break
11:15am–11:45am	Chastain G	Building the Railway Student-Faculty Rapid Exchange
11:45am–1:00pm		Lunch (on your own)
1:00pm–2:15pm	Chastain G	Session 3: Rural Tourism
	Chastain H	Session 4: Engaging with Race, Gender, and Resources in the Rural Context
2:15pm–2:30pm		Break
2:30pm–3:45pm	Chastain G	Session 5: Farm Stress
	Chastain H	Session 6: International Development
	Chastain Room 1/2	SAAS Board Meeting (2:30–3:30pm) Two SRSA leaders required to attend
3:45pm–4:00pm		Break
4:00pm–5:00pm	Chastain Room 1/2	SAAS General Business Meeting All SRSA members encouraged to attend
5:00pm	Grant Loft (Southern Exchange)	SAAS Opening Social All SRSA members encouraged to attend

Monday, February 5, 2024

Day and Time	Location	Session Title
8:00am–3:00pm	Overlook	Registration
8:00am–9:15am	Chastain G	Session 7: Heirs' Property Issues
	Chastain H	Session 8: Human Capital, Service, and Rural Communities
9:15am–9:30am		Break
9:30am–10:30am	Chastain G	SRSA Business Meeting and Awards
10:30am–10:45am		Break (poster set-up)
10:45am–11:45am	Chastain G	Panel 2: Cultivating Heirs' Property Stories: A Multidisciplinary Approach to Reach and Motivate Audiences
11:45am–1:00pm		Lunch (on your own)
1:00pm–2:15pm	Chastain G	Session 9: Technology Adoption and Diffusion
	Chastain H	Session 10: Health and Wellbeing in Rural Communities
2:15pm–2:30pm	Chastain G	Break (poster set-up)
2:30pm–3:30pm	Chastain G	Panel 3: SERA-47 Multi-State Project on Local and Regional Food Systems
3:30pm–3:45pm		Break (poster set-up)
3:45pm–4:15pm	Chastain H	Presidential Address
4:15pm–5:00pm	Chastain G	Poster Session and Presidential Reception
5:00 pm–6:00 pm	Chastain H	SRSA Executive Council Meeting

Thank you to our conference exhibitors and sponsors!



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Detailed Program

Saturday, February 3, 2024

10:00 am–4:00 pm, Chastain E: Rural Population Health and Aging Proposal Writing Workshop

John J. Green, Southern Rural Development Center

Leif Jensen, The Pennsylvania State University

Sunday, February 4, 2024

8:00am–3:00pm, Overlook: Registration

8:15am–9:30am, Chastain G: Session 1 – Food Systems and Community Quality of Life

Moderator: Millie Murphree, Alabama Cooperative Extension Service

Food, Farming, and Community: An Interactive, Story-Based Curriculum Exploring Local Food Systems and Career Paths for Diverse Kentucky Youth

Nicole Breazeale, Ashley Smith, Stacy Vincent, Dallas Cooks, and Michelle Howell, University of Kentucky

African and Native American Foodways and Resilience from 1619 to COVID-19,

Lindsey Lunsford, Tuskegee University

Resilient Regional Food Systems: A Participatory Policy

Perspective Lia Kelinsky-Jones and Kim Niewolny, Virginia Tech

8:15am–9:30am, Chastain H: Session 2 – Environment and Climate Change

Moderator: Andy Smolski, North Carolina State University

Challenges and Opportunities of Emergency Managers and Vulnerable Groups Experiencing Wildfires: Some Lessons from Rural California

Diego Thompson, Mississippi State University

Assessing the Environmental Justice Implications of Surface Coal Mining in Eastern Kentucky

Kabita Paudel and Buddhi Gyawali, Kentucky State University

Alabama Row Crop Producers' Perceptions of Weather and Climate-Based Information and Influence on Decision Making and the Adoption of Technology

Cassie O'Connor, Michelle R. Worosz, Steve McKnight, Brenda Ortiz, Audrey Gamble, Leah Duzy, and Rishi Prasad, Auburn University

Assessing the Ecological and Socioeconomic Impacts of Surface Coal Mining in the Appalachian Region, Kentucky

Samuel Oshikoya, Buddhi Gyawali, Kabita Paudel, and Amrit Nepal, Kentucky State University

Soil Health and Water Security, the New Gold; Mitigation and Adaptive Practices in the Face of Climate Change

Cynthia Rice and Shawn Lucas, Kentucky State University

9:30am–9:45am, Break

9:45am–11:00am, Chastain G: Panel 1: Collaboration Across the Boundaries that Divide Us: Explorations in Research Across Territorial and Institutional Lines-Southern Rural Development Center

Presenters and Facilitators: *John J. Green, Southern Rural Development Center and Mississippi State University; Michelle Eley, North Carolina A&T State University and Southern Rural Development Center*

11:00am–11:15am, Break

11:15am–11:45am, Chastain H:

Building the Railway – Networking and Learning Together
Facilitator: Kelli Russell, Auburn University

This short networking session is designed for conference attendees to make fast connections. During this facilitated session, participants get to introduce themselves to each other, share stories, and exchange knowledge. After the session, carry the conversations and storytelling further at lunch with your new pals.

11:45am–1:00pm: Lunch (on your own with your SRSA friends)

1:00pm–2:15pm, Chastain G: Session 3 – Rural Tourism

Moderator: Brooklynn Wynveen, Sam Houston State University

Land Zoning, Permits, and Tax-Related Guidelines for Agritourism Operators in the Commonwealth of Virginia
Gabriel Kwesi Yeboah and Jayesh Samtani, Virginia Tech AREC Hampton Roads

Wake Up Downtown – An Analysis of Main Street Revitalization Efforts and Community Perception
Rachael Carter, Mississippi State University Extension; Gene Theodori, Office of the Provost and Vice President for Academic Affairs, Lamar University; Kase Kingery, Mississippi State University Extension; William Poindexter, Mississippi State University Extension; Sumner Davis, Mississippi State University Extension

Cultural Tourism and Its Role in Rural Placemaking in Mississippi Delta Communities
Russ Garner, Communities Unlimited

1:00pm–2:15pm, Chastain H: Session 4 – Engaging with Race, Gender, and Resources in the Rural Context

Moderator: Becky Smith, Mississippi State University

Barriers Faced by Socially Disadvantaged Farmers and Ranchers —Policy Center Research Analyst Update
Kara A. Woods, The Socially Disadvantaged Farmers and Ranchers Policy Research Center

Gender Gap in Farmland Access, Myth or Reality? The Case of Tennessee
Mary Mafuyai and Abdelaziz Lawani

Collective Agency as a Pathway for Black Farmer Resiliency in Virginia
Nicole Nunoo, University of Georgia

How do social networks influence the social support Cambodians and Laotians received after the disasters
Hosik Min, University of South Alabama

The Rural Narrative of the Hispanic Community in Southwest Oklahoma
Laura Ruiz, Oklahoma State University

2:15pm–2:30pm, Break

2:30pm–3:45pm, Chastain G: Session 5: Farm Stress

Moderator: Matthew M. Brooks, Florida State University

Stress and Succession Planning: Perceptions and Support Needs of Agricultural Advisors
Carrie N. Baker and Sarah A. Bush, University of Florida

Race, Agrarian Frames and Navigating Farm Stress
Andrew R. Smolski and Michael D. Schulman, North Carolina State University

Farmer Perspectives on Farm Stress
Roshan Saha, Kelli Russell, and Mykel Taylor, Auburn University

2:30pm–3:45pm, Chastain H: Session 6 – International Development

Moderator: Eunice Waweru, Tuskegee University

The Impact of Parental Labor Migration on Children Left Behind in Kyrgyzstan
Ayday Koshmatova and Patricia Maloney, Texas Tech University

Understanding the Intersection of Gender and Urban-Rural Residence on Wasting Among Children Under Five in Nigeria
Aramide Kazeem, University of West Georgia, and John M. Musalia, Western Kentucky University

Social Science Research Opportunities in Northern Queensland, Australia
Brooklynn Wynveen, Sam Houston State University

Exploring Beginning Agricultural Educators Questions Regarding International Development
Meikah Dado, Texas A&M University

3:45pm–4:00pm, Break

2:30pm–3:30pm, Chastain Room 1/2: SAAS Board Meeting, two SRSA leaders required.

4:00pm–5:00pm, Chastain Room 1/2, SAAS General Business Meeting, all invited and encouraged.

5:00pm Grant Loft (Southern Exchange), SAAS Social, all invited and encouraged.

Monday, February 5, 2024

8:00am–3:00pm, Overlook: Registration

8:00am–9:15am, Chastain G: Session 7– Heirs’ Property Issues

Moderator: Robert Zabawa, Tuskegee University

Linking Two Literatures: Common Property and Heirs’ Property
Conner Bailey and Ryan Thomson, Auburn University

Death and Dirt: A Bibliometric Analysis of 50 Years of Heirs’ Property Scholarship
Ryan Thomson, Auburn University

Landownership Challenges in Tillery Farms: Heirs’ Property in a 1935 African American Resettlement Community
James H. Patterson III, Tuskegee University

The Impact of Race and Region on Heirs’ Property in Rural Alabama
Obianuju Egiebor and Robert Zabawa, Tuskegee University

8:00am–9:15am, Chastain H: Session 8 – Human Capital, Service, and Rural Communities

Moderator:

Interdisciplinarity as a Path Towards Sustainability and Service
Steven McKnight and Oliver Nell, Auburn University

From Gravel Roads to City Streets
Rachael Carter and Lauren Colby Nickels, Mississippi State University Extension

The USDA SARE Program, Social Sustainability, and Quality of Life
Douglas H. Constance, Sam Houston State University; Jin Young Choi, Sam Houston State University; Jeff Jordan, SSARE/University of Georgia-Griffin; Candace Pollack-Moore, SSARE/University of Georgia-Griffin

9:30am–10:30am, Chastain G: Business Meeting and SRSA Awards

10:30am–10:45am, Break

10:45am–11:45am, Chastain G: Panel 2: Cultivating Heirs’ Property Stories: A Multidisciplinary Approach to Reach and Motivate Audiences

Panelists: *Becky Smith, Mississippi State University; John Green, Southern Rural Development Center; Portia Johnson, Auburn University Extension; Sandra Thompson, South Carolina State University Extension; Ryan Thomson, Auburn University; Kara Woods, Socially Disadvantaged Farmers and Ranchers Policy Research Center at Alcorn State University; Robert Zabawa, Tuskegee University; Sam Cook, North Carolina State University; Rachel Welborn, Southern Rural Development Center*

11:45am–1:00pm: Lunch (on your own)

1:00pm–2:15pm, Chastain G: Session 9– Technology Adoption and Diffusion

Moderator:

Factors Influencing the Adoption of Precision Agriculture Technology among Small Farmers
Shreeshya Pandeya, Amrit Nepal, Suraj Upadhaya, and Buddhi Gyawali, Kentucky State University

Adoption Status and Prospects of Precision Agriculture in Farms in Kentucky, USA
Dipesh Oli and Buddhi Gyawali, Kentucky State University

Making Visible Subjugated Knowledge in Co-op Theory and Practice
Rural Sociologist.
Thomas Gray, USDA, RBCS-Program on Co-operatives

Key Informant Perceptions of Factors Influencing Sustainable Rice Farming Practices in the Southern United States
Mark Schafer and Naduni Jayasinghe, Louisiana State University AgCenter

1:00pm–2:15pm, Chastain G: Session 10 – Health and Wellbeing in Rural Communities

Moderator:

Community Health Conditions: Does Rurality Matter?
Kevan Lamm, University of Georgia

A Community-Based Participatory Approach to Research on Health Equity and Social Vulnerability of Farm Workers and Agricultural Laborers in Virginia
David Smilnak and Kim Niewolny, Virginia Tech

Why did Medicaid Expansion Increase Rural Mortality? Disentangling Impacts by Race, Age, and Cause of Death
Matthew M. Brooks, Florida State University, J. Tom Mueller, University of Kansas Medical Center, Regina S. Baker, University of North Carolina at Chapel Hill

2:15pm–2:30pm: Break and Poster Set-Up (Chastain G)

2:30pm–3:30pm, Chastain G: Panel 3: SERA-47 Multi-State Project on Local and Regional Food Systems

Presenters and Facilitators: *John J. Green, Southern Rural Development Center and Mississippi State University; Russ Garner, Communities Unlimited*

3:30pm–3:45pm, Break

3:45pm–4:15pm: Chastain G: Presidential Address: Our Stories, Our Research, and How they Connect.

4:15pm–5:00pm: Chastain G: Poster Session and Presidential Reception

4:45pm–5:30pm: Chastain G: SRSA Executive Committee

Monday, February 5, 2024, 3:45 pm–4:45 pm, Chastain G: Poster Session

Title	Author(s)
Product Preferences of Piedmont Triad, North Carolina Farmers	Godfrey Ejimakor, North Carolina A&T State University
Identifying Communication Determinants of Healthy Eating Behaviors in Rural Communities to Increase Self-Efficacy	S.J. Dossani, K.E. Gibson, and A.J. Lamm, University of Georgia
Backyard Grower-Consumer Perceptions of Rabbit Meat Consumption in Rural Mississippi	Millie Murphree, Alabama Cooperative Extension Service, Escambia County Extension
Climate Change and Underserved Stakeholders	Cynthia Rice, Kentucky State University
Examining the Impact of Community Garden Engagement on Mental Health in Rural Communities: A Literature Review	E. Ramsey, C. Sanders, V. Stage, A. Bennett, M. Babb, C. Stallings, and A. Walker, North Carolina State University
Building Community Networks: The Role of Farmer Organizations and Keystone Leaders	Camille Ingram, Andrew Smolski, and Michael Schulman, North Carolina State University
Recent SNAP Participation in Farmers Markets: Market Managers' Perspectives	Laura Fincher, Texas A&M University-Commerce
It is not a Leaky Bucket: Developing a Community Reform Model in Rural Communities	Jihyun Shin, Pennsylvania State University
Delta Scholars: Cultivating Change Through Young Leaders	Eleanor M. Green, Kecia R. Johnson, Tommy Anderson, and Muneebah Umar, Mississippi State University; John J. Green, Southern Rural Development Center

Abstracts

Session 1: Food Systems and Community Quality of Life

Food, Farming, and Community: An interactive, story-based curriculum exploring local food systems and career paths for diverse Kentucky youth

Nicole Breazeale, Ashley Smith, Stacy Vincent, Dallas Cooks, and Michelle Howell, University of Kentucky

Local food systems are vital for communities, as they can provide economic, social, environmental, and health benefits. However, there is a lack of comprehensive and inclusive curriculum that can educate and empower youth to learn about and engage in local food systems, especially geared for middle school agriculture educators and 4-H Agents. This presentation showcases “Food, Farming, and Community,” a local food systems curriculum that we developed in collaboration with Black Soil, Need More Acres Farm, and University of Kentucky Agriculture Education & Community Development faculty and students. The curriculum uses digital storytelling to feature a racially diverse array of farmers and local food systems practitioners in Kentucky, including a former UK football player and NFL retiree who serves as a social influencer and advocate for local food systems. The curriculum also uses a popular education approach to create 10 interactive lessons that cover topics such as local vs. global food, sustainable agriculture, food access, and local food system career paths for diverse Kentucky youth. The curriculum concludes with a group social action project. We piloted the curriculum with eight middle school agriculture educators. 4-H agents are currently adapting the lessons for a club context. The presentation will share more details about the curriculum development, pilot testing, and implications for local food systems education.

African and Native American Foodways and Resilience from 1619 to COVID-19

Lindsey Lunsford, Tuskegee University

The COVID-19 pandemic is flooding and splitting “efficiency” fault lines in today’s industrialized food system. It also exploits centuries of historical traumas, White supremacy, and systemic racism to kill non-White people at triple the rates of Whites. In 1619, an English ship landed on the shores of the Powhatan confederacy, or, as the English called it, Point Comfort, Virginia. The ship delivered stolen people onto stolen land. This was a first step in founding today’s U.S. food system. Until that time, the people of North America and West Africa had lived off the land for millennia, foraging, hunting, and cultivating food. But 400 years ago, the twin European colonial influences of invasion and enslavement entwined the lives and, to some extent, the foodways of Native Americans and West Africans in what is now the U.S. Yet, these communities are still resilient. This paper offers re-stories about how African American and Native American communities have adapted and maintained foodways to survive, thrive and renew, from 1619 to COVID-19. Methods include historical and literature reviews, interviews, and brief auto-ethnography. Even in the face of a pandemic, Native American and African American communities still leverage their foodways to survive and thrive. Some of these food system strategies also illustrate shifts that could be made in the United States food system to help everyone thrive.

Resilient Regional Food Systems: A Participatory Policy

Perspective Lia Kelinsky-Jones and Kim Niewolny, Virginia Tech

A regional approach is essential to building resilient food systems as climate change effects tend to be regionally similar. Climate modeling suggests regions of the U.S. currently heavily farmed may become intolerable by 2050, whereas other regions, like Central Appalachia (CA), may become a possible agricultural hub. However, the historical legacy of environmental injustice and extraction in the region underscores the importance of ensuring that regional food system growth proceeds sustainably and

equitably. Regional governance can strengthen regional food systems, but such efforts must be inclusive of multiple stakeholders and knowledge forms. Despite its growing importance, research on food system governance is lacking, especially regionally. Joint Fact Finding (JFF) is a participatory approach to policy lever identification that fosters deliberations among diverse food system stakeholders. The methodology has the potential to support regional food system governance, but we lack empirical data on its use for this purpose. As part of my USDA NIFA Postdoctoral Fellowship, I am employing JFF in four Central Appalachian states Southwest Virginia, Western North Carolina, West Virginia, and Southeast Ohio. In this session, I will discuss the conceptual and methodological possibilities of JFF as a model for inclusive participatory research and as a vehicle for advancing resilience in regional food systems through policy efforts. I will also share preliminary methodological insights, including strategies and barriers encountered in its application.

Session 2: Environment and Climate Change

Challenges and Opportunities of Emergency Managers and Vulnerable Groups Experiencing Wildfires:
Some Lessons from Rural California
Diego Thompson, Mississippi State University

Worldwide, wildfires are becoming more frequent and intense. In recent years, these natural disasters have had significant consequences in rural California. Wildfires have been often preceded or followed by cascading hazards that impact vulnerable groups and communities. This study uses data from focus groups with emergency managers and individuals working with vulnerable rural groups (i.e. seniors, individuals with disabilities, low-income and homeless residents, Spanish-speaking communities, and Tribal groups) in rural California. This research examines and identifies challenges and opportunities from people dealing with wildfires and related hazards. Findings show the needs to improve communication tools that could successfully reach out to vulnerable residents. Participants highlighted lack of trust and cultural barriers among some rural residents as significant challenges in case of emergencies. Findings also show opportunities from the use of community engagement strategies that could mitigate hazards and/or facilitate successful adaptive responses. These findings provide good lessons for practitioners and scholars working on community disasters and/or wildfires in rural contexts.

Assessing the Environmental Justice Implications of Surface Coal Mining in Eastern Kentucky
Kabita Paudel and Buddhi Gyawali, Kentucky State University

Surface coal mining in Eastern Kentucky has significantly impacted the region, particularly the local population from an environmental justice perspective. However, there has been limited research on how this activity affects the quality of life for nearby residents. This study aims to investigate the sociodemographic changes brought about by coal mining and the impact of coal mining on health-related quality of life in specific Eastern Kentucky mining sites. To conduct this analysis, we employ Geographic Information Systems (GIS), specifically ArcGIS Pro, using tools such as hotspot analysis, proximity analysis, and statistical measures. Data sources encompass historical mining records, socio-demographic data, health-related information, and environmental data. We explore how socio-demographic factors, including population, median household income, employment, and housing values, have evolved alongside coal mining activities. We also assess social and health vulnerabilities, such as poverty, lack of health insurance, health hazards, mortality, hospital visits, and incidence of pollution-related diseases to understand the impact of coal mining on local communities. Buffer zones are created around selected mining locations, and we analyze variations in these impacts at different distances. Our hypothesis is that community indicators closer to mining sites will exhibit more adverse conditions compared to those at greater distances. The study's findings aim to provide a nuanced understanding of the complex environmental justice issues associated with coal mining in the region. This understanding will inform policy discussions and interventions aimed at mitigating the adverse effects of mining

activities on local communities while promoting equitable development and fostering the long-term resilience of Eastern Kentucky.

Alabama Row Crop Producers' Perceptions of Weather and Climate-Based Information and Influence on Decision Making and the Adoption of Technology

Cassie O'Connor, Michelle R. Worosz, Steve McKnight, Brenda Ortiz, Audrey Gamble, Leah Duzy, and Rishi Prasad

To better assist producers with on-farm decision-making, research and extension teams need to understand their perceptions and how these perceptions might influence on-farm production practices. While the literature on producer decision-making has grown, there are significant gaps in knowledge specific to weather and the relationship between weather perceptions and the use of climate-smart tools and practices. In this project we ask “What are stakeholders’ perceptions about weather and climate and how do they influence on-farm decision-making about climate-smart technology?”

The Future of Farming is a 6-year transdisciplinary project that began in 2020. The project team collaborates with stakeholders—producers, extension field agents, crop consultants—to understand the barriers to the adoption of climate-smart technologies. Data were collected during a series of regional learning network meetings (i.e., field days) that took place between the summers of 2020 and 2023 (n=20). Individual interviews were also conducted (n=26 producers). All data were video recorded, transcribed, and loaded to Nvivo for analysis. These data were coded according to three factors: 1) the primary project objectives, 2) the relevant research question for this sub-project, and 3) the data itself. Therefore, the codes included keywords such as cost, return, risk, and uncertainty, as well as a range of terms associated production, weather, and climate. Preliminary analysis suggests that producers: 1) distrust the weather information that they obtain, and 2) the barriers to adoption reach beyond economics, alone; and 3) there are gaps in knowledge and skills that influence perceptions and hinder adoption of climate-smart agriculture.

Assessing the Ecological and Socioeconomic Impacts of Surface Coal Mining in the Appalachian Region, Kentucky

Samuel Oshikoya, Buddhi Gyawali, Kabita Paudel, and Amrit Nepal, Kentucky State University

This study examines the ecological and socioeconomic effects of surface coal mining in the Appalachian region, with a focus on Eastern Kentucky. The research involved 292 respondents, averaging 63 years of age, and residing in the region for about 50 years. Surveyed participants reported various environmental changes due to surface mining, including landscape alteration (19%), forest degradation (42%), increased storm runoff (66%), fish and wildlife population decline (100%), reduced air quality (28%), elevated noise levels (63%), and compromised land stability (84%). Over 59% of respondents support collaboration with mining operators. More than half had experienced prior mining activities on their property, with an average surface-mined area of 49.79 acres. Additionally, 63% currently live on or near mining property, emphasizing their proximity to these activities, which have occurred for an average of 14.15 years in the area. Regarding government support, 48% had not received any assistance for land reclamation, conservation, or agriculture, while about 15% had received such support, with 37% not responding to this query. These findings underscore the significant ecological and socioeconomic impact of surface coal mining in the Appalachian region, highlighting the necessity for collaborative efforts between residents and mining operators to address these concerns and promote sustainable development. The study's insights can inform policy recommendations and best practices to mitigate the environmental consequences of surface mining while safeguarding the well-being of affected communities.

Soil Health and Water Security, the New Gold; Mitigation and Adaptive Practices in the Face of Climate Change

Cynthia Rice and Shawn Lucas, Kentucky State University

The traditional farming model is no longer sustainable. Soil health includes recovering degraded soil, regenerative practices to increase fertility, understanding the soil bionome, tilling practices, sustainable methods and best management practice. Water security includes potable water, gray water and its usage, black water, issues in surface water, issues in ground water, rainfall vs municipal water sources, water rights and water retention and storage, precipitation, flooding and new flood plain maps. Climate change is changing up the use of both soil and water with an increased focus on mitigation and adaptation of solutions to handle the projected impact in the near- and long-term timeframe for urban and rural areas. Special emphasis is given to underserved population subsets.

Session 3: Rural Tourism

Land Zoning, Permits, and Tax-Related Guidelines for Agritourism Operators in the Commonwealth of Virginia

Gabriel Kwesi Yeboah, Virginia Tech AREC Hampton Roads

Purpose: The purpose of this paper was to create a piece of one-stop communication about important land zoning and land use, permits and tax guidelines for farmers venturing into agritourism in the Commonwealth of Virginia, USA. It also examines and complements prior studies on the distribution of agritourism in Virginia. **Approach:** A systematic literature review is conducted.

Findings: Foundational legal prerequisites for agritourism and other emerging factors for the distribution of agritourism in Virginia are identified. **Practical implication:** Farmers must invest in what they are legally expected of and also learn how best to protect themselves and their business from law infringement before and during agritourism operations. Additionally, the complementary findings of the factors of agritourism distribution can guide farmers strategically in Virginia. **Theoretical implication:** This article contributes to agritourism literature and demonstrates the relevance of safety and protection against avoidable liability. **Originality:** This article provides excellent grounds to begin conversations with specialists such as attorneys, tax analysts, and insurance companies who can help Virginia farmers assess risk and put their businesses on the best track.

Wake Up Downtown – An Analysis of Main Street Revitalization Efforts and Community Perception
Rachael Carter, Mississippi State University Extension, Gene Theodori, Office of the Provost and Vice President for Academic Affairs, Lamar University, Kase Kingery, Mississippi State University Extension, William Poindexter, Mississippi State University Extension, Sumner Davis, Mississippi State University Extension

In rural Mississippi, as is the case across much of the rural United States, pressing needs exist for local community and economic development. Mississippi Main Street Association—an economic development organization focused primarily on downtown revitalization—assists rural community leaders and their constituents as they work to build, strengthen, and/or maintain local economies. In this study, we collected data from a nonprobability sample of residents living in 36 Mississippi Main Street communities to assess several major topics, including shopping patterns, preferred community improvements and/or businesses, levels of community engagement, and perceptions of the community's future. Results revealed connections between Main Street's locality-oriented development efforts and residents' levels of community engagement and local shopping behaviors, as well as clear patterns for preferred future community improvements and/or businesses. Possible implications of the findings for rural community leaders, community and economic development practitioners, and the Mississippi Main Street Association are advanced, as are suggestions for future research.

Cultural Tourism and Its Role in Rural Placemaking in Mississippi Delta Communities
Russ Garner, Communities Unlimited

In the latter half of 2022, USDA agencies Rural Development (RD), United States Forestry Service (USFS), and the National Institute of Food and Agriculture entered into a memorandum of understanding (MOU) to coordinate activities aimed at supporting the economy of communities that are adjacent to National Forests and Grasslands (gateway communities) and the sustainable development of the recreation economy nationwide, demonstrating a clear mission in strengthening rural tourism. Tourism is Mississippi's fourth largest industry, with over 23 million visitors spending over \$7 billion in fiscal year 2022. Mississippi, and in particular, the Mississippi Delta, has a rich civil rights, Blues, and agricultural history that attracts both domestic and international visitors. This presentation will examine challenges and opportunities for rural Delta communities, focusing on cultural tourism and its role in rural placemaking and revitalization, with the goal of new businesses and jobs, improved levels of service, refurbishment of derelict buildings, a renewed sense of place, and an uplift in community confidence. Engaging with Race, Gender, and Resources in the Rural Context

Session 4: Engaging with Race, Gender, and Resources in the Rural Context

Barriers Faced by Socially Disadvantaged Farmers and Ranchers —Policy Center Research Analyst Update
Kara A. Woods, The Socially Disadvantaged Farmers and Ranchers Policy Research Center

The Research Analyst from The Socially Disadvantaged Farmers and Ranchers Policy Research Center (The Policy Center) will provide an update on ongoing research projects dealing with food insecurity for Socially Disadvantaged Farmers and Ranchers (SDFRs). Food insecurity has a significant impact on rural life and the survival of farm operations for socially disadvantaged farmers, landowners, families, and communities. Discussion will provide impactful data highlighting the effects and barriers of food insecurity and government programs. The update will include an overview of the varying research project methods, data analysis, and recommendations for the upcoming Farm Bill.

Gender Gap in Farmland Access, Myth or Reality? The Case of Tennessee
Mary Mafuyai and Abdelaziz Lawani

Over the years, men and women have struggled for equality in all areas of daily life including agriculture. Traditionally, women face significant challenges establishing credibility, acquiring capital, hiring farm labor, and securing essential resources for accessing farmland. In 2017, women represented approximately 33 percent of all farmers in the United States. Despite these obstacles, today, women perform important roles including marketing, farm business planning, record-keeping, and financial management. This paper addresses the following objectives: 1) investigating gender differences in farmland access in Tennessee and, 2) analyzing the relationship between farming experience and gender differences in Tennessee. This paper uses data collected in 2023 through direct mail, face-to-face contact, and online Qualtrics survey administered to farmland owners, farm operators and others interested in agricultural land. A questionnaire, developed by the Farmland Tenure, Planning, and Transfer Project Team at Tennessee State University was used for collecting data. Data was analyzed using Microsoft Excel and the Statistical Package for the Social Sciences (SPSS). Frequency distributions, chi-squares, and logistic regression procedures were applied. An examination of distributions showed that 55% of the respondents were males and 45 percent were females. Forty percent of the respondents were new to farming with less than two years of experience, 21 percent had between 2 and 10 years, while 39 percent had more than 10 years. Chi-square test of independence revealed that women and men differed significantly in the issues they faced in accessing farmland in Tennessee.

Collective Agency as a Pathway for Black Farmer Resiliency in Virginia
Nicole Nunoo, University of Georgia

Black farmers in the United States have long grappled with systemic challenges, from historical land dispossession, discriminatory lending practices, exclusion from agricultural support programs to contemporary barriers that threaten their agricultural livelihoods. These injustices have resulted in a significant decline in the number of Black-operated farms over the years. Amidst these challenges, Black farmers have continued to persevere, adapting, and innovating to sustain their agricultural heritage. The Black farmers' struggles have been well-documented, yet their resilience and agency in the face of adversity are often overlooked. This study, centered in Virginia, delves into the critical role of collective agency as a strategy for bolstering the resiliency of Black farmers. Through semi-structured interviews and focus group discussions, the research uncovers how Black farmers have harnessed collective agency to navigate the complex web of challenges they face. By organizing in both rural and urban spaces, they not only enhance their own resiliency but also empower themselves to shape their futures, highlighting the significance of collective agency in fostering self-determination. The study reveals the multifaceted dimensions of collective agency, including the development of community networks, engagement in advocacy efforts, and multi-sectoral collaborations. The findings underscore the interconnections between human, social, and material aspects of farming, illustrating how collective agency contributes to the well-being of individuals, households, and their communities. By shedding light on their experiences and the power of collective agency, this study contributes to a deeper understanding of the resilience and determination of Black farmers in the face of systemic challenges.

How do social networks influence the social support Cambodians and Laotians received after the disasters
Hosik Min, University of South Alabama

This study examined the association between the social network variables and support from the government or family for Cambodians and Laotians in Alabama. A total of 223 Cambodians and Laotians aged at least 18 years old participated in this study. Social network variables were significantly associated with social support; however, the directions of associations differed by the type of support they received. The governmental support was associated with egos or alters who were fluent in English, experienced relocation, had more kin members in their ego network, and had financial difficulties. In contrast, family support was associated with egos or alters' higher level of education, strong ties among alters, a larger effective size, and physical health problems. Policymakers, emergency responders, and other stakeholders need to understand and consider community networks' importance, such as social relations and interactions, when planning or executing emergency plans. The study identified the need to increase translation services and financial support.

The Rural Narrative of the Hispanic Community in Southwest Oklahoma
Laura Ruiz, Oklahoma State University

There is limited research related to the Hispanic community experience in rural America. Although the Hispanic community is cited as an integral component to the economic vitality of rural, farm-dependent towns, the leadership role of Hispanic people is often overlooked and unreported in rural research and narratives. The purpose of this research was to empower the leadership perspectives of rural [STATE REGION] through the lens of the local Hispanic community. This qualitative study included nine personal interviews with Hispanic members of in four [REGION] counties of [STATE]. The participants were purposively selected through various recruitment efforts by the researcher including networking with the local county Extension office, attending local churches, and engaging in community volunteer efforts as a community resident during the summer of 2023. Data were collected and transcribed in Spanish to maintain the voice of participants. Transcriptions were coded and analyzed to reveal five emergent preliminary themes portraying the experiences of leadership as described by local Hispanic community members: 1) overlooked and undervalued for work contributions in the community; 2) "it's not for me" – awareness of need for representation in local leadership but skeptical of systems; 3) lived experiences of racism; 4) this community is my home – appreciative of opportunities and quality of life in their community; and 5) setting

the record straight. Further opportunity exists to better understand the experience and narrative of Hispanic community members to inform more equitable, representative, and empowering leadership within rural communities.

Session 5: Farm Stress

Stress and Succession Planning: Perceptions and Support Needs of Agricultural Advisors

Carrie N. Baker and Sarah A. Bush, University of Florida

Rural communities have been plagued by urban sprawl with farmland being sold for residential development. While this at times is attributed to high premiums, it also relates to difficulty with succession planning. With the average age of a farmer at 57.5 years old, many farmers need to be actively planning to retire, sell, or transfer their business to successors—usually relatives or family members—to sustain the rural way of life. Planning for succession requires farmers to confront the viability of their business, make difficult decisions, and have tough conversations. Without proper support, planning can cause considerable stress and impact farmers' mental health. In preparation for transition, farmers turn to trusted advisors (e.g., consultants, estate planners, lawyers, accountants) to help navigate this process. Advisors are positioned to support farmers through stress, though many feel ill-equipped. Given outlooks for farm succession, it is important to understand how planning impacts farmer health and how to equip individuals facilitating succession. We conducted interviews with agricultural advisors to explore perceptions of stress during succession planning from their perspective, examine behaviors they exhibit to help lead families through change, and better understand their perceived challenges and needs to better support clients navigating succession planning. Advisors recognized familial conflict, lack of communication, and navigating uncertainty as some factors contributing to stress. Many noted their background prepared them for some encounters, but discussed the need for additional training. We recommend creating an advisor support network for resource sharing, and enhanced programming for navigating conflict and life changes.

Race, Agrarian Frames and Navigating Farm Stress

Andrew R. Smolski and Michael D. Schulman, North Carolina State University

The literature on agrarianism demonstrates its role in framing a diverse set of actions, from farming practices to mobilization. Additionally, this research shows that agrarianism is differentiated into types based on farmers' historical and contemporary racialized experiences. In this study, we explore how the differentiation of agrarian frames provides an interpretative framework for understanding how farmers navigate risk factors, barriers to care, and strategies to address farm stress. We conduct a comparative thematic analysis of thirty interviews with Black and White farmers in three Southern states. Results show the existence of distinct, but overlapping agrarian frames based on a farmers' race. While both Black and White farmers frame being small-scale as increasing their risks and barriers to care, the frames diverge in terms of the role of discrimination and strategies. A Black agrarian frame tended to frame discrimination as having a role in increasing financial risk, and was more likely to emphasize collective action and solidarity. In contrast, a Neoliberal agrarian frame tended to emphasize individual action, express distrust of fellow farmers, and emphasize strictly economic barriers. These findings highlight the need for awareness of how frames can operate as a barrier to care and as a basis for resilience.

Farmer Perspectives on Farm Stress

Roshan Saha, Kelli Russell, and Mykel Taylor, Auburn University

The purpose of this project is to further understand farmers' needs regarding farmer distress and resiliency by examining farmers and farm household members' experiences and needs in navigating adaptations, changes, and challenges in agriculture. While the economics and politics of farm production

dominate the news and scholarly study, the perspectives of actual farmers involved in agriculture are often ignored. Building on farm stress and farm resiliency literature that emphasize a need to better understand farm stress from the experiences and knowledge of the farmer and farm household, we aim to further understand farmers' perceptions of their experiences of stress and the resources that they use to navigate stress. Using grounded theory to guide all facets of data production and analysis, data for this paper come from interviews and field notes from the initial portion of a larger study of farm stress and farm resiliency in the deep south.

Session 6: International Development

The impact of parental labor migration on children left behind in Kyrgyzstan

Ayday Koshmatova and Patricia Maloney, Texas Tech University

Due to economic pressures in Kyrgyzstan after the break-up of the USSR and the lack of well-paying jobs, there is a 20-year history of parental labor migration from Kyrgyzstan to countries like Russia and Kazakhstan to support their families. This creates obvious social, academic, and developmental issues for the children who are left behind. Mostly, these children stay with relatives, but, also, they are left in residential institutions, all of which are situated in rural areas. This research study examines the perceptions of these children and the professionals who take care of them. We use non-repeated, semi-structured interviews to authentically learn about the perspectives of these respondents. Given the inaccessibility of these respondents and unlikelihood that they would respond to surveys, we argue that the previous attempts by the state at large-scale quantitative data collection have missed nuances that could only come from their perspectives. Preliminary results indicate that this population has a highly increased rate of juvenile delinquency as well as higher rates of educational dropout, and susceptibility to violence and human trafficking. The social workers report feeling helpless and overwhelmed in the face of child's needs. The final results will include policy recommendations for the government that focus on best meeting the children's needs.

Understanding the Intersection of Gender and Urban-Rural Residence on Wasting Among Children Under Five in Nigeria

Aramide Kazeem, University of West Georgia, and John M. Musalia, Western Kentucky University

The literature on the gender gap in young children's nutritional status in sub-Saharan Africa was mainly restricted to children three and under; these studies were situated in eastern and southern Africa. The studies find that boys are more likely than girls to experience wasting or stunting (Adekanmbi et al. 2013; Demissie and Worku 2013; Keino et al. 2014; Novignon et al. 2015; Yaya et al 2022).

Given the unavailability of secondary data, prior studies have mainly examined the direct association of gender on anthropometric measures without consideration of its interaction with other explanatory variable, such as urban-rural location, which also contributes to disadvantage nutritional status in children (Omigbodun et al. 2010; Babatunde et al. 2011; Olack et al. 2011; Demissie and Worku 2013; Novignon et al. 2015). The observed gender differences may be worsened by whether children reside in rural areas compared to urban areas as research shows that children in rural in contrast to urban places have lower nutritional status (Keino et al. 2014; Novignon et al. 2015; Novignon et al. 2015; Yaya et al 2022). This research answers the questions that pertain to the intersectionality of gender and urban-rural residence among children in a West African country, Nigeria, through analyzing the 2018 Nigeria Demographic and Health Survey (2018 NDHS). The questions are -- does rural residence compared to urban residence increase susceptibility to wasting, measured through weight-for-height z-score, for both boys and girls? If yes, is the effect of rural residence more pronounced for boys than for girls?

Social Science Research Opportunities in Northern Queensland, Australia

Brooklynn Wynveen, Sam Houston State University

Alternatively titled, “What I Did Over My Summer Vacation,” in this presentation, I will outline a number of potential research opportunities available for social scientists with interests in Northern Queensland, Australia. These opportunities include projects focused on topics such as recreation, tourism, community development, indigenous culture, environmental conservation, and historical preservation, among others. Locales covered encompass: Townsville, Magnetic Island, Hidden Valley, Ingham, Mungalla Station, Mount Molloy, Mission Beach, Atherton, Cape Tribulation, Port Douglas, and Cairnes. These areas boast a wide variety of human and natural resources that are rife with social science research opportunities. In this conceptual piece, I look forward to sharing these ideas with conference attendees, in hopes that they will begin to likewise view their own “places” with an eye toward research and expanded understanding.

Exploring Beginning Agricultural Educators Questions Regarding International Development
Meikah Dado, Texas A&M University

International experiences serve as a tool to increase soft and hard skill development (Vatalaro et al., 2015; Wright et al., 2019). Specifically, beginning agricultural educators involved in international experiences encounter perspective changes, increased self-awareness, and understanding of cultural differences (Dado et al., 2023; Vatalaro et al., 2015). In turn, this increases career development and personal success through developing cultural empathy and improving teaching abilities (Serin, 2017). However, much of the previous research involved short term experiences, resulting in a lack in the literature regarding the impact of long-term exposure on new educators. Therefore, this study explored beginning agricultural educators experiences in a long-term international experience. Researchers used a phenomenological qualitative approach with semi-structured interviews and focus groups. The population involved a census of [Program] of eight individuals who lived ten months in [Country] communities. They worked as agricultural educators, youth organization advisors, and extension agents. Researchers discovered three themes using Glaser and Strauss (1967) constant comparative method: culture, sustainability, and development philosophy. Culture depicted what participants appreciated and were challenged by when experiencing a new culture. Sustainability described their thoughts regarding [Program] being one year; including how they felt discouraged and found grant programs to be “flaky” because of potential unsustainability. Development philosophy included participants’ positive and negative thoughts toward development that formed throughout their experience. Examples included becoming “more pragmatic” or describing “international development is a tool to keep [Country] reliant on outside resources.” Altogether, participants became integrated in [Country] culture and crafted their philosophy surrounding international development.

Session 7: Heirs Property Issues

Linking Two Literatures: Common Property and Heirs Property
Conner Bailey and Ryan Thomson, Auburn University

We tend to think of property ownership as being either private or public, one thing or another. Two bodies of research literature – heirs property and common property – make clear that this division is an oversimplification. Despite shared social equity concerns, the two literatures have developed largely in ignorance of each other, an unfortunate state of affairs we address in this paper. Common property research has focused on governance and collective use of natural resources by a defined group of users whose rights often are recognized by tradition but not by law. Much of this research focused on fisheries, forestry, and irrigation systems in non-industrialized nations. Heirs property research has focused on real property passed down across multiple generations in the absence of a probated will among African Americans in the southeastern United States. Despite obvious differences, these two property systems both embody collective rights and responsibilities limited to a definable group of people who are faced with serious obstacles imposed by formal legal systems. We provide brief summaries of the two literatures and identify insights in each that might be useful to the other.

Death and Dirt: A Bibliometric Analysis of 50 Years of Heirs' Property Scholarship
Ryan Thomson, Auburn University

Heirs' property as a policy topic and field of study has come a long way since Scott Graeber's canonical study (1978). While the issue is finally on the radar for many policy-makers and academics, the biggest problem most people have never heard of still has a long way to go. Heirs' property, a form of tenancy-in-common ownership, remains a primary source of persistent poverty that traps intergenerational wealth while deteriorating housing stock and hindering productive land use. Francis et al. (2022) conservatively estimated that this legal form of dispossession stripped Black families of \$326 Billion between 1920 and 1997. Covid further exacerbated tangled title issues with millions of families affected by this issue. The interdisciplinary body of research stems from rural sociology, forestry, legal studies, and policy analysis. The following research uses bibliometric network analysis to examine and visualize over 200 articles sub-themes, keywords, and common citation patterns across the growing field of study.

Landownership Challenges in Tillery Farms: Heirs Property in a 1935 African American Resettlement Community
James H. Patterson III, Tuskegee University

Tillery Farms, established in 1935 as part of the New Deal's Resettlement Administration, was a beacon of hope for African American families during a time of racial segregation and economic hardship. The community, situated in rural North Carolina, was created to provide land and housing to African American families, many of whom had been sharecroppers or farm laborers. However, the issue of heirs property, where land was passed down without clear titles, became a significant concern within the community. This abstract delves into the historical context of Tillery Farms, highlighting the unique challenges that heirs property posed. The land use, ownership with clear title and loss via heirs property is quantified. With limited legal protection and a lack of clear land titles, many families in Tillery Farms struggled to maintain ownership and secure their future. The absence of legal clarity often led to disputes and the potential loss of generational wealth. This abstract explores the impact of heirs property on the Tillery Farms community, shedding light on the broader historical implications for African American landownership and the ongoing struggle for land rights in the United States.

The Impact of Race and Region on Heirs Property in Rural Alabama
Obianuju Egiebor and Robert Zabawa, Tuskegee University

Heirs property is land passed down to surviving family members after the original landowner dies without a succession plan or probated will. This form of land ownership disproportionately impacts racial and ethnic minorities in the US. Heirs property significantly lowers the overall asset value for its owners when compared to properties with clear titles. This study considers the extent of heirs property in two regions; one predominantly African American – the Black Belt in South Central Alabama and the other predominantly white – the Tennessee Valley in North Alabama and explores the impact of race and region on this form of land ownership (heirs property). A cross-section of land tenure data from county GIS maps will be analyzed using T-test and chi-square. We anticipate that the results will show that heirs property ownership, with a focus on the intersections of race and region, will have an impact on the incidence of heirs property as well as the assessed value of heirs property in the region with a higher population of racial minorities. The finding of this research will unravel the complex relationship between race, region, and heirs property in the rural south and US, its implications for individual landowners as well as the communities(counties) where heirs property impedes wealth accumulation and contributes to land loss and underscoring the urgent need for targeted policy interventions aimed at addressing the disparities that persist in heirs property ownership. Keywords: Land, Heirs Property, Race, Region, Blackbelt

Session 8: Human Capital, Service, and Rural Communities

From Gravel Roads to City Streets

Rachael Carter and Lauren Colby Nickels, Mississippi State University Extension

Farm to table dinners are fun! Many of us love going to the local farmers market or ordering locally sourced products in restaurants on those special nights out. Local food is a popular community and economic development strategy, but why do local food businesses and farmers markets fail? What are the barriers to what sounds like a very simple strategy for rural development and issues with healthy food access. How can communities grow their local foods industry, support farmers, and increase access to healthy food?

"From Gravel Roads to City Streets" is a local foods initiative conducted by MSU-Extension, Mississippi Main Street, Main Street Directors, and the Northeast Mississippi Hills National Heritage Area. Session attendees will not only learn about the positive aspects and successes of developing local food initiatives, but the challenges of creating sustainable development in rural areas. The presentation will include pitfalls as well as best practices for supporting local food, growing farmers markets and "foodie" tourism, while navigating barriers to successful local food initiatives. Participants will get a glimpse of a foodie trail, a farm to table documentary, best practices guides, and a farmers market business planning curriculum for youth.

Interdisciplinarity as a Path Towards Sustainability and Service

Steven McKnight and Oliver Nell, Auburn University

Faculty and extension agents at public universities serve a unique role as both academics and public servants. Projects aimed at solving complex problems – often funded by federal grants – create opportunities for these employees to gather diverse sets of citizens to work towards a common goal. In the case of large research projects involving faculty and extension agents from various fields, multidisciplinary is often built into the structure of the university team. Whether or not that coalition leads to collaborative interdisciplinarity depends on the actions and attitudes of the individual members of the team. The Future of Farming Project in Alabama is used as a case study to investigate how these actions and attitudes impact services for citizens. Our preliminary findings regarding perceptions of sustainability are explored in this paper. The variety of views regarding the concept of sustainability provide a challenge for faculty and extension agents who seek to explore sustainability solutions that are co-produced with members of the community.

The USDA SARE Program, Social Sustainability, and Quality of Life

Douglas H. Constance, Sam Houston State University, Jin Young Choi, Sam Houston State University, Jeff Jordan, SSARE/University of Georgia-Griffin, Candace Pollack-Moore, SSARE/University of Georgia-Griffin

The climate change crisis requires major changes in the structure of the global agrifood system to reduce the negative externalities of conventional agriculture and to increase sustainability and resilience. This research investigates the role of USDA Sustainable Agriculture Research Education Program (SARE) toward this end. SARE was created in 1990 to enhance the environmental, economic, and social sustainability of agriculture. These dimensions are referred to as the three legs of the SARE stool. Researchers have noted that from its inception SARE was controversial in USDA and that the social sustainability leg of the stool has been the least funded. This paper investigates the balance within the SARE grants portfolio regarding the three legs of the stool with particular attention to efforts within SARE to enhance social sustainability and quality of life at the national and regional levels.

Session 9: Technology Adoption and Diffusion

Factors influencing the adoption of precision agriculture technology among small farmers
Shreesha Pandeya, Amrit Nepal, Suraj Upadhaya, and Buddhi Gyawali, Kentucky State University

The rise in global population has led to an increased demand for food, which poses a significant threat to global food security. To meet the growing demand for food, farmers need to enhance agricultural productivity since land resources are limited. Evidence suggests adoption of precision agriculture technology contributes to enhancing productivity. The farmers' technology adoption behaviors are influenced by different farm and farmers' characteristics. Therefore, understanding these factors is crucial for increasing the adoption of technology. Using a binary logistic regression, we investigated the role of different demographic and economic attributes of Kentucky's small farmers on the adoption of precision agriculture. Our results of analyzing 98 respondents revealed that farmers who have been farming for longer periods of time are significantly less likely to adopt precision agriculture. Furthermore, male farmers are significantly and more likely to adopt precision agriculture. The results also show that the income of the farmers is positively related to the adoption of the technology, implying that the farmers with a high level of income are more likely to adopt precision agriculture. Our results may help policymakers and other stakeholders to understand how the majority of Kentucky farmers are likely to adopt precision agriculture to enhance productivity, profitability, and other ecological benefits. In addition to this, the results may further assist precision agriculture technology suppliers and service providers for targeted marketing purposes.

Adoption status and prospects of precision agriculture in farms in Kentucky, USA
Dipesh Oli and Buddhi Gyawali, Kentucky State University

The precision agriculture-based farming approach employs the use of advanced technologies to enhance crop yields tackling global problems like food security and environmental issues. The use of advanced tools and equipment is necessary to develop farm decision support systems improving productivity and sustainability. This study was conducted to understand the perception of farmers on the use of precision tools in agriculture and their prospects. The data was collected from 97 farmers. The results suggest that 65 % of the respondents are interested in learning about adopting new technologies in farming practices. The logistic binary regression model has been used to study the effects of various sociodemographic factors on the learning attitude of farmers about adopting new technologies in farming. Education level, age, income level, and expertise in agriculture production have positive effects on the learning attitude of farmers. 45 % of respondents are the late majority and 24 % are the early majority in the adoption of technology. This result suggests that proper demonstration of new technology is necessary to encourage farmers to adopt the technology. Results indicate that technical difficulties, high cost, lack of human resources to run technology, and lack of extensive services are some of the major concerns associated with the adoption of technology in agriculture. Findings show that 18% and 11% of respondents believe in the extreme importance of precision-based technology in crop and livestock production respectively. These findings could be useful to strengthen the extension activities related to precision-based technology adoption in farming communities enhancing agricultural productivity.

Making Visible Subjugated Knowledge in Co-op Theory and Practice
Rural Sociologist.
Thomas Gray, USDA, RBCS-Program on Co-operatives

Following related literature development in the larger sociology around "subjugated knowledge," this paper addresses work by black scholars and practitioners in the theorization and practice of co-operative organization. Gordon-Nembhard (2014) has reported that a perception in the Academy has existed that "African-Americans don't do co-ops and that is the problem." However Gordon-Nembhard as well as Gray (2021) have found this is not the case. There has been a highly active African-American involvement at the intellectual and practitioner level of cooperative advocacy, formation and operation. Involvement has not always been reported openly due to security needs consequent to

oppression dynamics in the larger societal context. This paper assembles and reviews co-op related theory and practice positions of several African-American scholars and advocates to bring some greater visibility generally, as well as better contextualization historically. The paper is an expansion of earlier work by the author and Gordon-Nembhard.

Key information perceptions of factors influencing sustainable rice farming practices in the southern United States

Mark Schafer and Naduni Jayasinghe, LSU AgCenter

My paper presentation will highlight factors that key informants (including AgCenter extension agents, leadership of grower associations, and research faculty, and others involved in the industry, broadly defined) speculate either facilitate or constrain the capacity (ability and willingness) of rice farmers in the southern US to adopt more climate resilient rice varieties and more sustainable rice farming practices. My research is part of a collaborative NIFA-funded project entitled Climate Resilient Innovations in Sustainable Production of Rice (CRISP-Rice)

Session 10: Health and Wellbeing in Rural Communities

Community Health Conditions: Does Rurality Matter?

Kevan Lamm, University of Georgia

Although the differences between rural, urban, and metro communities is well established, the role of rurality in health conditions remains an ongoing area of investigation. The present study provides an empirical analysis of health-related questions, specifically focused on metro, urban, and rural audiences in [STATE]. A total of 3,358 responses were obtained using non-probability opt-in sampling including metro (n=2,797), urban (n=505), and rural (n= 56) respondents. The data were collected as part of a larger research study. Respondents were asked to indicate the health conditions on three scales, 1) perceptions of current health conditions in their community on a five-point scale ranging from 1-Terrible to 5-Excellent, 2) a binary response indicating whether health conditions in their community are getting better or worse, 3) a health issues indication scale with 13 potential issues present in their community. When analyzed by group, Metro respondents most frequently indicated health conditions were Good (42.7%) and getting Better (74%). There were an average of 3.45 (sd=2.54) health conditions identified. Urban respondents most frequently indicated health conditions were Average (44.8%) and getting Better (64.4%). There were an average of 3.71 (sd=2.66) health conditions identified. Rural respondents most frequently indicated health conditions were Average (44.6%) and getting Better (57.1%). There were an average of 3.89 (sd=2.35) health conditions identified. Overall results indicated rural communities had more health related issues, as well as lower perceptions of health conditions. Study results provide empirical benchmarks related to rural community health conditions.

A Community-Based Participatory Approach to Research on Health Equity and Social Vulnerability of Farm Workers and Agricultural Laborers in Virginia

David Smilnak and Kim Niewolny, Virginia Tech

In Virginia, as well as in other U.S. southern states, the agricultural industry relies on the labor of farm workers and agricultural laborers (FW&AL) to support the efficiency of mass-market food production and food supply chains. The FW&AL community is not monolithic and may include wage workers, contract workers, permanent workers, seasonal workers, migrant and settled workers, and those laborers who participate in the H-2A Temporary Agricultural Program. As a vulnerable population, however, the health and wellness of FW&AL is a rising public health issue as most recently demonstrated during the COVID-19 pandemic. Current literature also illustrates social equity, economic resiliency, and food security concerns related to farm worker health, safety, and wellness. Drawing upon the Centers for

Disease Control and Prevention's social vulnerability index as a systems framework, this paper shares preliminary findings of a community-based participatory research (CBPR) project that seeks to understand the social and environmental vulnerabilities affecting FW&AL in Virginia. This mixed-method research project is a partnership among Virginia's 1862 and 1890 land-grant universities, cooperative extension, and a national labor advocacy organization to provide community-based and culturally appropriate program and policy solutions from a healthy equity and food systems lens. Survey and literature view results illustrate critical health, safety, wage, housing, and wellness measures and vulnerabilities of FW&AL in Virginia. We also discuss how current findings will guide interview and focus group data collection with farm laborers and employers. Recommendations for CBPR partnership development will also be explored.

Why did Medicaid Expansion Increase Rural Mortality? Disentangling Impacts by Race, Age, and Cause of Death

Matthew M. Brooks, Florida State University, J. Tom Mueller, University of Kansas Medical Center, Regina S. Baker, University of North Carolina at Chapel Hill

Medicaid expansion has the ability to significantly reduce mortality in the U.S. as well as diminish currently sizeable rural-urban and Black-White mortality disparities. Unfortunately, recent work has shown that while expansion may have reduced rural White-Black disparities, it did so via an increase in White mortality and no change in Black mortality. Importantly, the underlying reasons as to why remain unknown. We aim to fill this critical evidence gap by disaggregating the impact of Medicaid expansion on overall, Black, and White mortality in rural areas by age group and specific cause of death. Utilizing innovative difference-in-difference models, we evaluate both the overall impact of expansion on Black-White mortality and how impacts may have changed over time. Our results can be used to inform policy regarding how Medicaid can be altered to best suit rural populations, and how to effectively reduce expansion-related Black-White disparities such as unequal access to preventive care.

Posters

Product Preferences of Piedmont Triad, North Carolina Farmers

Godfrey Ejimakor, North Carolina A&T State University

Selling food locally helps farmers to keep a larger portion of each dollar spent on food. However, local food markets may limit the volume of sales that a farmer may achieve. Delays in the marketing of farm products such as produce may result in a higher spoilage rate with adverse financial consequences for a farmer. This could affect the resiliency of farm families especially limited resource ones. Farmers interested in selling food locally will have to be careful in their product selection. Consideration must be given to the shelf life of the product in addition to the product's suitability to local demand and weather conditions. We used survey data to identify farm products that are popular with farmers in the Piedmont Triad region of North Carolina. We requested local farmers who have an interest in local food marketing to list all the products that they produce. We used the listings to generate a frequency distribution for the products. We then ranked the products to identify the most and least produced ones. Our study will assist new and existing farmers to determine the products that are more suitable for the local food market.

Identifying Communication Determinants of Healthy Eating Behaviors in Rural Communities to Increase Self-Efficacy

S.J. Dossani, K.E. Gibson, and A.J. Lamm, University of Georgia

Rural communities face physical, economic, and social barriers to accessing healthy food, emphasizing the need for interventions that increase access. Previous studies have found increased self-efficacy is positively related to healthy eating behaviors in rural communities. Thus, the purpose of this study was to determine if

social media health information seeking patterns and sources used to obtain health information predicted rural residents' self-efficacy related to healthy eating behaviors so health promotion interventions can effectively target healthy eating behaviors. The data was gathered through the [Project], which is a public health initiative funded by the Centers for Disease Control and Prevention that aims to increase access to healthy foods and physical activity opportunities in five rural [state] counties. Data were collected from 780 rural [state] residents in 2022 using non-probability opt-in sampling with an online survey using Qualtrics. Respondents were asked both Likert-type and demographic questions. The findings indicated respondents' received their health information from health professionals (67.7%), websites (53.1%), and by word of mouth (32.2%). Regression analysis revealed social media health information seeking habits and health information sources significantly predicted self-efficacy related to healthy eating behaviors. Variables were relevant, but only explained 7.6% of the variance in self-efficacy, therefore further research is needed to determine what could be informing rural residents' self-efficacy related to healthy eating behaviors.

Backyard Grower-Consumer Perceptions of Rabbit Meat Consumption in Rural [State]

Millie Murphree, Alabama Cooperative Extension Service, Escambia County Extension

Every country in the world is affected by malnutrition. Malnutrition presents a double burden of both obesity and undernutrition, even within the same populations (World Health Organization [WHO], 2020). Excess weight and obesity are growing problems contributing to climbing rates of chronic conditions like Type II diabetes, high cholesterol, high blood pressure, and heart disease (Toole, 2016). Obesity and noncommunicable diseases associated with obesity are largely preventable. Food-based approaches have a strong potential for meeting the challenges of reducing or eliminating micronutrient malnutrition (Tontisirin et al., 2002). Rabbit meat production and consumption is a possible solution to malnutrition worldwide (Petrescu & Petrescu-Mag, 2018). However, its consumption falls behind other protein sources like beef, pork, chicken, and turkey (Petrescu & Petrescu-Mag, 2018). Understanding backyard grower-consumers' perceptions of rabbit meat consumption could improve support and adoption of backyard rabbit programs leading to the generalization of consuming this healthy protein source worldwide. The purpose of this qualitative case study was to understand the perceptions of backyard rabbit meat growers in [state] and to identify parallels of both relative advantages and potential barriers. This study addressed these research questions: (1) What were the perceptions of backyard rabbit growers in [state]? (More specifically, what influenced growers' decision to raise rabbits and to utilize them as a protein source?) (2) How were growers' practices, relative to rabbit rearing and consumption, affected by external variables outside of the growers' control? This study provided insights to the reasons some raise backyard meat rabbits for consumption.

Climate Change and Underserved Stakeholders

Cynthia Rice, Kentucky State University

Underserved Stakeholders face many issues in relation to climate change. Gentrification due to climate change relocation from revised flood plains and resulting flooding. Increased disasters with less response available to economically depressed areas. Human health issues unevenly experienced by underserved and low-income population subsets, including elderly and youth/children. Public services unavailable or targeted to more affluent or new areas creating issues of inequity and injustice. Environmental services availability not convenient via current transportation routes or unaffordable. Heating and cooling options not feasible for economically distressed population subsets. Food deserts/food hubs not assessable to majority of low-income neighborhoods. Food security/sovereignty at risk leading to hunger and wasting hunger issues with associated health issues.

Examining the Impact of Community Garden Engagement on Mental Health in Rural Communities: A Literature Review

E. Ramsey, C. Sanders, V. Stage, A. Bennett, M. Babb, C. Stallings, and A. Walker, North Carolina State University

Community gardens are dynamic spaces, offering access to fresh produce and empowering members to cultivate their own food. Beyond their agricultural function, community gardens foster physical activity and social interaction. The purpose of this study was to utilize a thematic literature review to explore the role and impact of community gardens on mental health in rural communities, focusing on the demonstrated social, economic, and environmental benefits. Key search terms for the literature review included "community gardens," "rural communities," "mental health," and "low-income communities". Researchers identified improvements in community cohesion and enhanced mental well-being as emergent themes from the reviewed scientific literature. More research is needed to comprehensively understand the impact of community gardens on mental health, as current literature is notably more abundant in addressing their effects on physical health. This discrepancy arises from a variety of factors including the diverse array of assessment methods for mental health compared to the more established metrics used for physical health, such as BMI or dietary habits. These findings highlight the positive reception of research on community gardens in rural areas and underscore the strong interest in creating spaces that promote community and food cultivation.

Building Community Networks: The Role of Farmer Organizations and Keystone Leaders
Camille Ingram, Andrew Smolski, and Michael Schulman, North Carolina State University

In this project, we investigate how farmer-led organizations develop, operate, and function. In particular, we seek to understand how they build and maintain networks and vet the resources they share with their members. In 2023, four farmer-led community-based organizations participated in semi-structured interviews. The interview process allowed these organizations to tell how they were established, who they serve, and how they vetted the web of resources they provide to their communities. Analysis shows that one main community member leads these farmer-led organizations. This keystone community leader serves their organization in myriad ways depending on the goals of the organization and on the identities of the communities they serve. Identity-based organizations emphasize social services for their members, while production-oriented organizations emphasize network building. Therefore, the organizations create a web of resources that suit their members' needs. In addition, they can reject resources that they deem lacking a "cultural grounding/understanding" of the lived experiences of their members. The basis of these organizations and their dependence on a keystone community leader are both assets and limitations for their functioning and delivery of resources. In conclusion, farmer-led organizations create bonding networks among their members and bridging networks with outside resources.

Recent SNAP Participation in Farmers Markets: Market Managers' Perspectives
Laura Fincher, Texas A&M University-Commerce

As the 2023 farmers market season is the first in three years without SNAP Emergency Allotments, SNAP participation in farmers markets is likely to decrease, which could have negative impacts for farmers market earnings and community relations. The purpose of this study was to examine farmers market SNAP participation and the impacts of the expiration of SNAP Emergency Allotments from the perspective of market representatives in the Dallas-Fort Worth Metropolitan Statistical Area. A sample of seven farmers market representatives was interviewed, and observations of farmers market sites and online media were gathered. The interviews and observations were analyzed to find common themes among the data. The study found that, although there was regular SNAP participation in small amounts, there was a decrease in SNAP participation this year, compared to the previous seasons with Emergency Allotments. Market matching programs and product quality were the main motivators for SNAP participation, and the farmers markets used signage and online media for SNAP promotion. However, access to transportation, work and family responsibilities, limited promotion, and perceived social stigma were all barriers to SNAP

participation. The farmers markets did not significantly change or adapt their SNAP programming in response to the expiration of Emergency Allotments. The farmers markets promoted a community-minded and food security-related mission. The results of this study shed light on gaps in farmers market SNAP programming and nutrition policy that need to be addressed to fulfill this mission.

It is not a Leaky Bucket: Developing a Community Reform Model in Rural Communities
Jihyun Shin, Pennsylvania State University

Rural communities have experienced brain drain; outmigration of the young educated. There are several reasons for young outmigration: absence of belongings (family and/or romantic relationship), limited career building and job opportunities, or recreation facilities, etc. In other words, a rural community with resourceful jobs and career opportunities will come up with more young returnees with high satisfaction in residence. It will give rise to better infrastructure and guarantee a high quality of life for the elderly and children either. The most critical question is how a rural area does have a community level of self-efficacy. Most extension-related studies are program and county specific, and it is hard to generalize. Furthermore, they exist to develop a community by means of education, but less trying to give a hand to transform the structure of a rural community.

Is it a leaky bucket to give attention to rural communities? With an economic lens, developing and adapting a new policy to the rural areas could be reflected as a degrowth. This research develops a community reform model (Young-Professionals Program) by counteracting Economists' pessimistic view of policy adaptation in rural areas.

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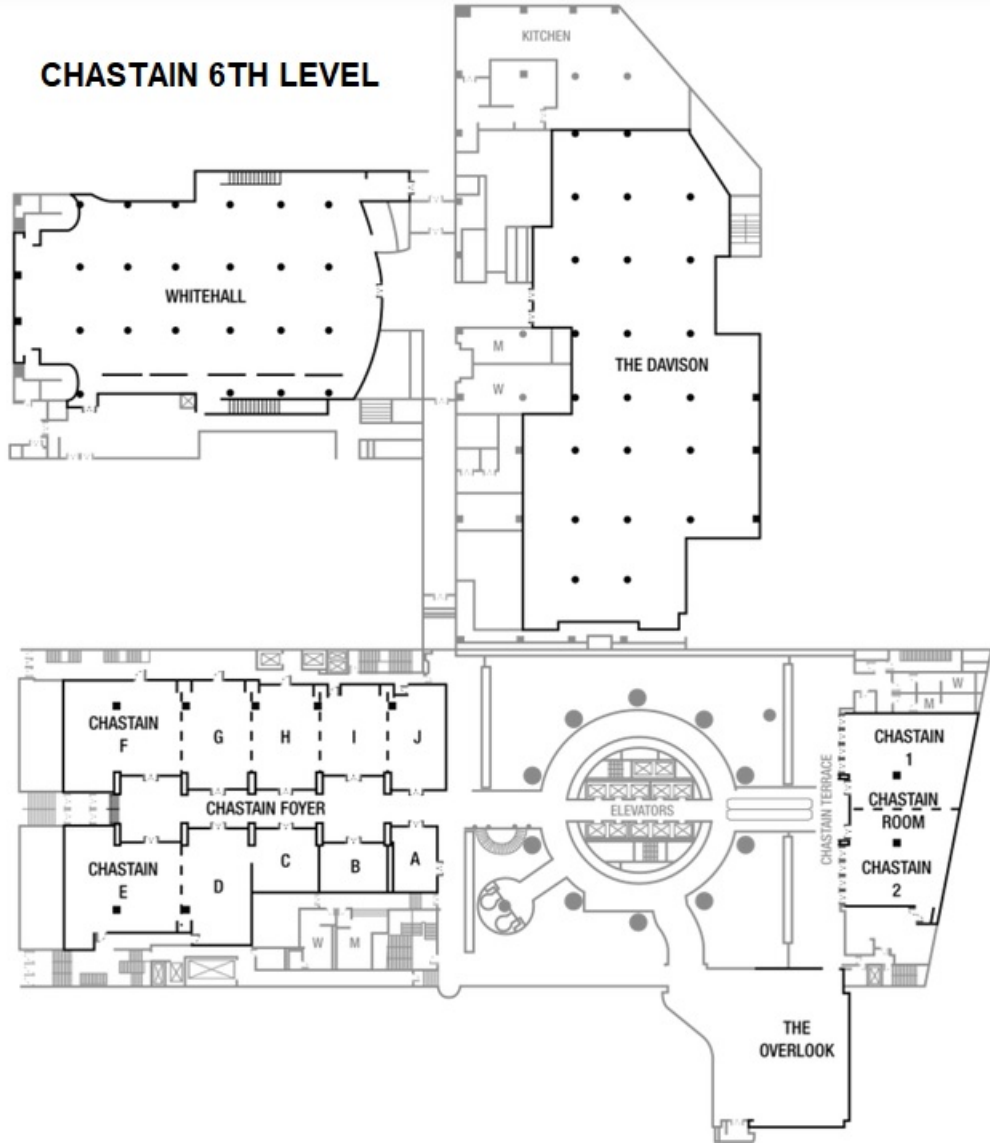
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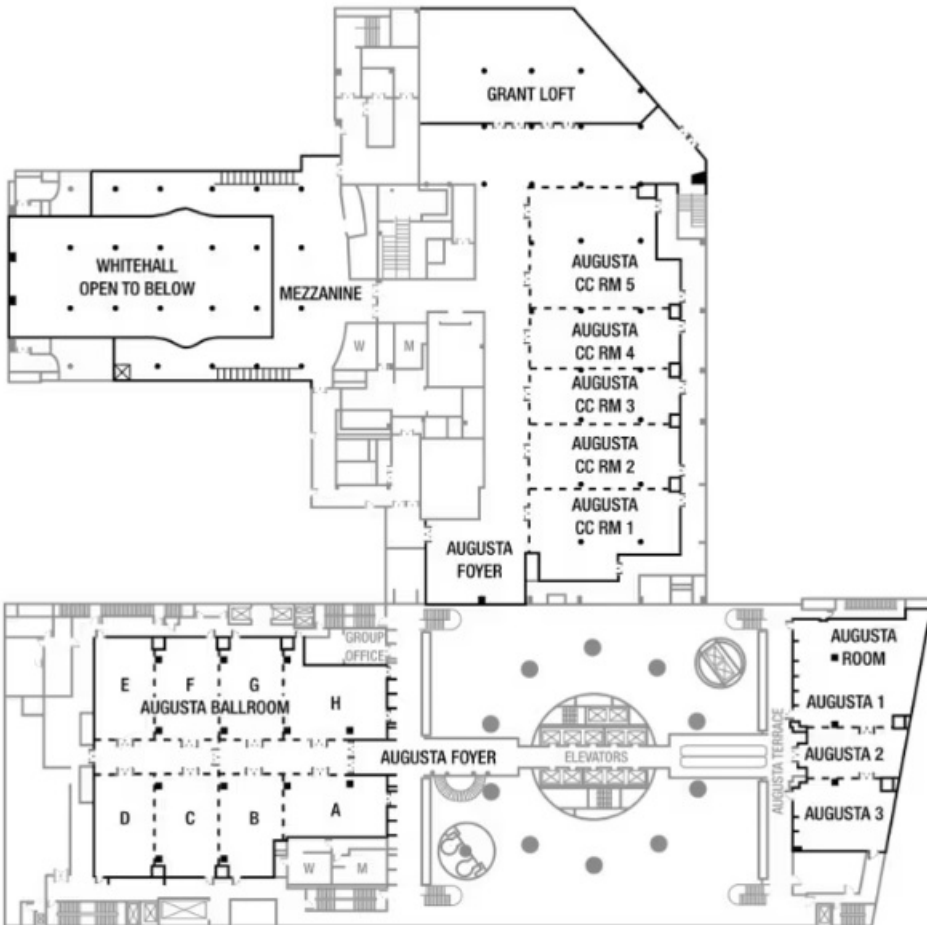
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The Westin Peachtree Plaza	
Alphabetical List of Meeting Rooms	
Room	Floor
Augusta 1/2	7th Floor
Augusta 3	7th Floor
Augusta A	7th Floor
Augusta B	7th Floor
Augusta C	7th Floor
Augusta D	7th Floor
Augusta E	7th Floor
Augusta F	7th Floor
Augusta G	7th Floor
Augusta H	7th Floor
Augusta PreFunction Terrace	7th Floor
Augusta Room 1/2/3	7th Floor
Chastain A	6th Floor
Chastain B	6th Floor
Chastain C	6th Floor
Chastain D	6th Floor
Chastain E	6th Floor
Chastain F	6th Floor
Chastain G	6th Floor
Chastain H	6th Floor
Chastain I	6th Floor
Chastain J	6th Floor
Chastain Room 1/2	6th Floor
Group/Event Office	7th Floor
Overlook	6th Floor
Peachtree Ballroom	8th Floor
Peachtree Room	8th Floor
Piedmont Room	12th Floor
Savannah Ballroom	10th Floor
The Overlook	6th Floor

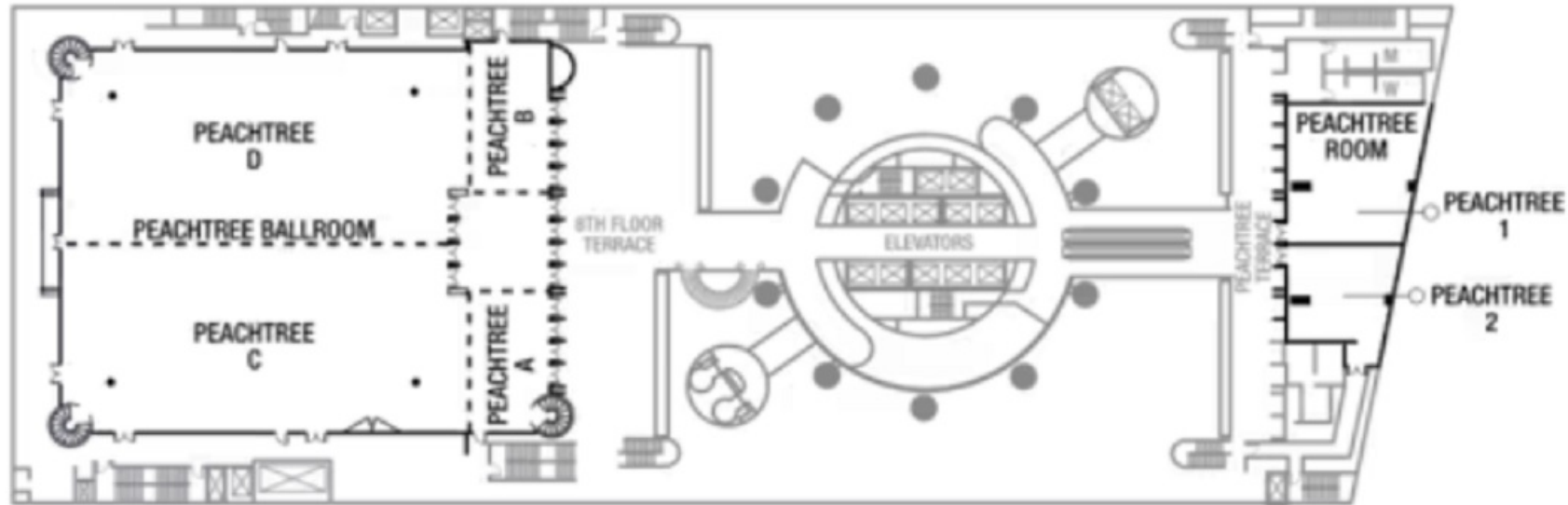
CHASTAIN 6TH LEVEL



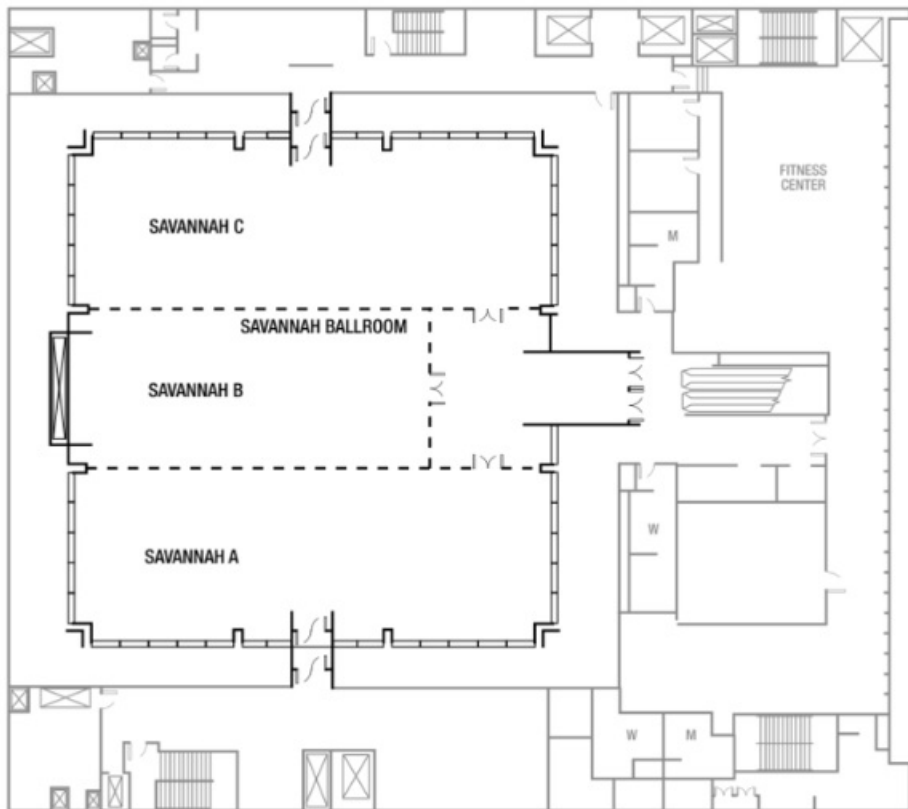
AUGUSTA 7TH LEVEL



PEACHTREE LEVEL, EIGHTH FLOOR



SAVANNAH LEVEL, TENTH FLOOR



PIEDMONT LEVEL, TWELFTH FLOOR

